

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P271237

Luminaire Tested: **XNV-AF-01-LED-U-SL3-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271237
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24263)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-SL3-7027-800-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3604 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

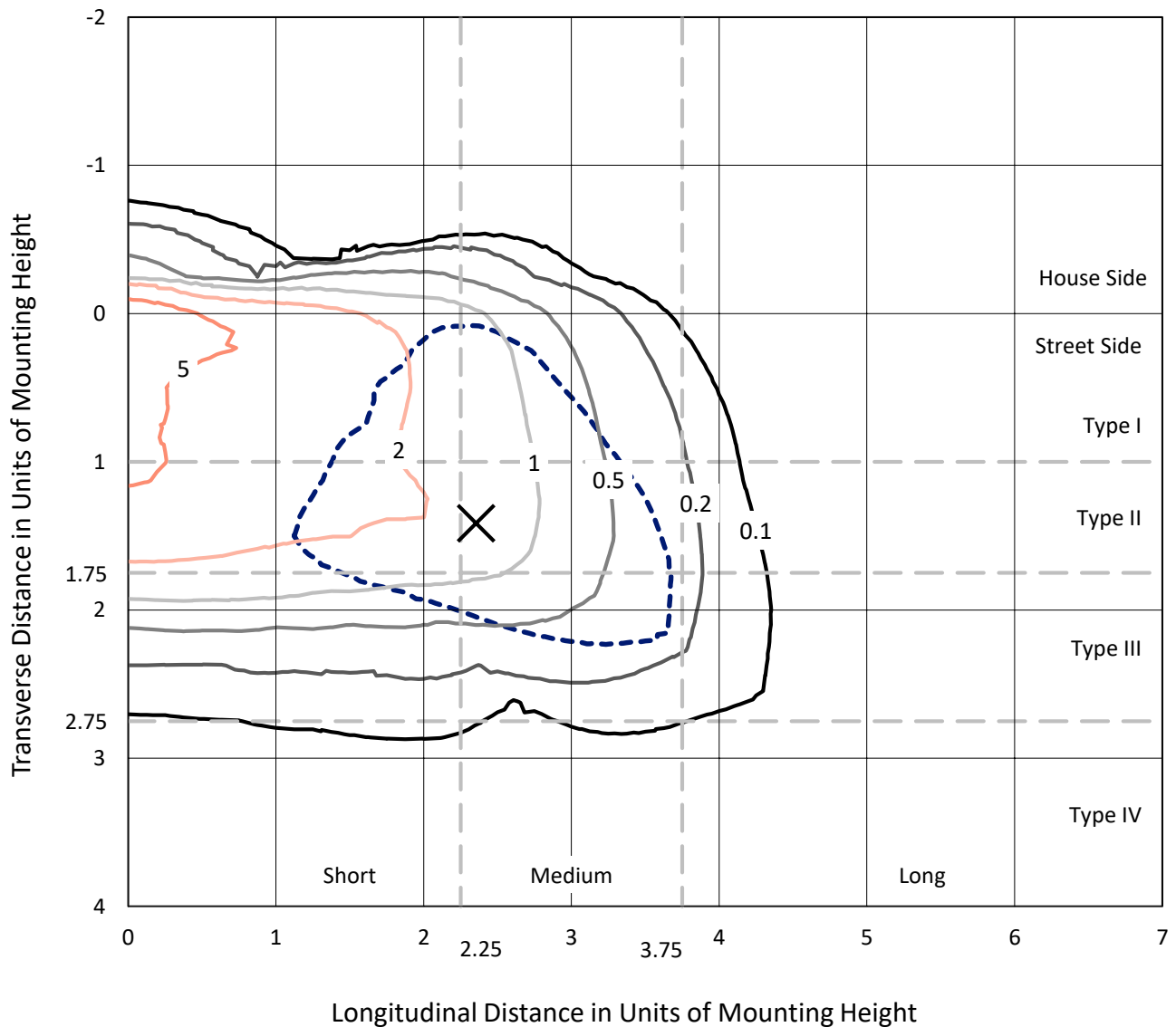


REPORT NUMBER: P271237

CATALOG NUMBER: XNV-AF-01-LED-U-SL3-7027-800-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

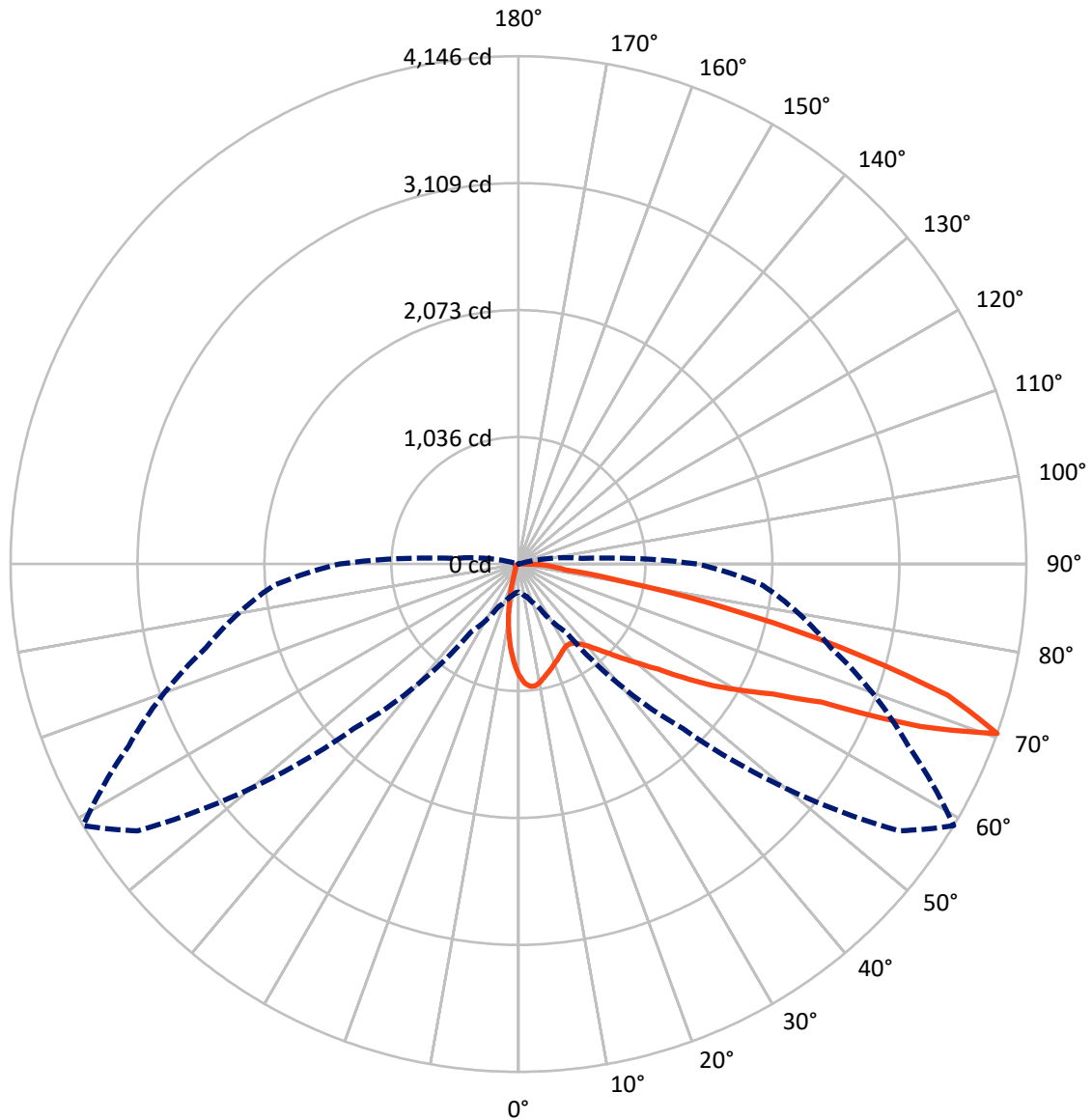


Based on 10 foot mounting height. Maximum calculated value = 9.7 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P271237

CATALOG NUMBER: XNV-AF-01-LED-U-SL3-7027-800-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	277.1	0.0	277.1
	% Fixture	7.7	0.0	7.7
Street Side	Lumens	3327.0	0.0	3327.0
	% Fixture	92.3	0.0	92.3
Total	Lumens	3604.0	0.0	3604.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.9	2.1
10°-20°	157.2	4.4
20°-30°	212.8	5.9
30°-40°	307.1	8.5
40°-50°	510.0	14.1
50°-60°	780.0	21.6
60°-70°	970.2	26.9
70°-80°	536.3	14.9
80°-90°	55.6	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3604.0	100.0
0°-180°	3604.0	100.0



REPORT NUMBER: P271237

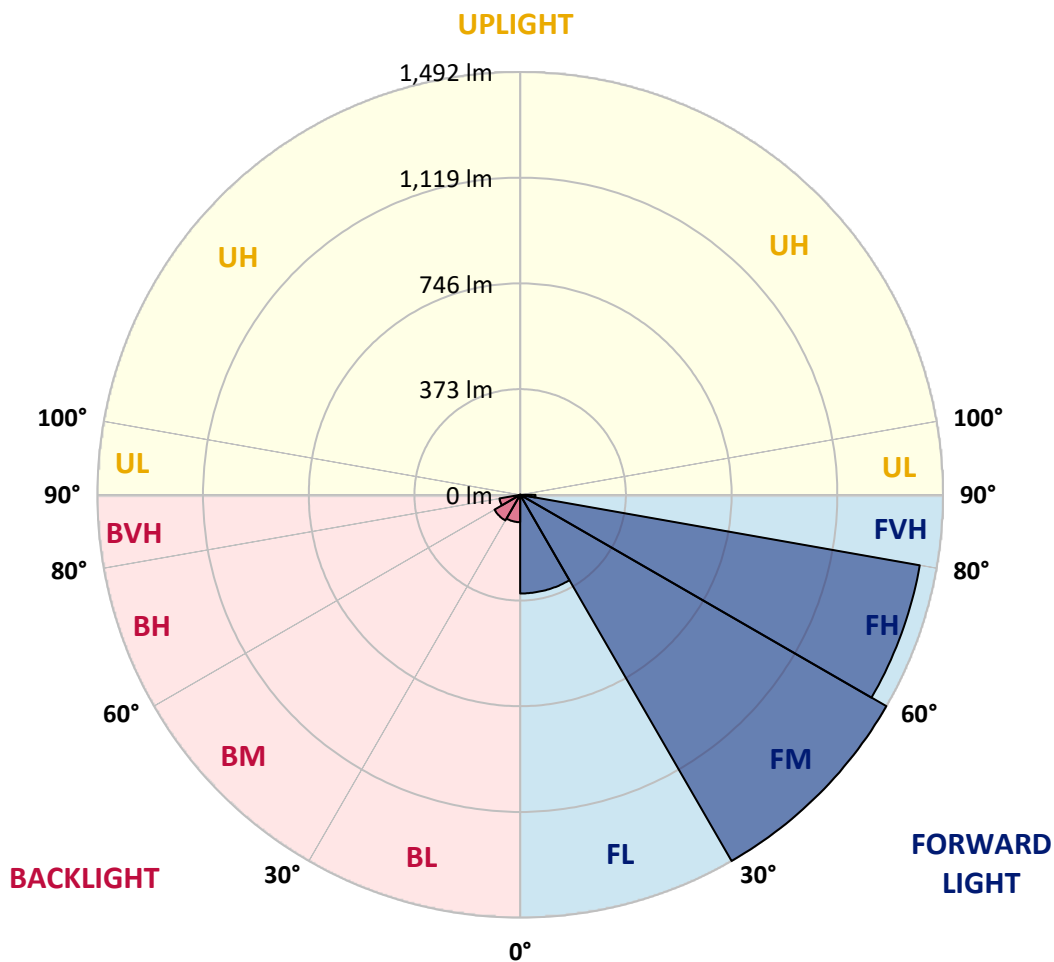
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	348.3	9.7			
FM	(30°-60°)	1492.5	41.4			
FH	(60°-80°)	1432.2	39.7			G1/1800
FVH	(80°-90°)	54.0	1.5			G1/100
BL	(0°-30°)	96.5	2.7	B0/110		
BM	(30°-60°)	104.6	2.9	B0/220		
BH	(60°-80°)	74.3	2.1	B0/110		G0/110
BVH	(80°-90°)	1.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Medium





REPORT NUMBER: P271237

CATALOG NUMBER: XNV-AF-01-LED-U-SL3-7027-800-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	911.3	911.3	911.3	911.3	911.3	911.3	911.3	911.3	911.3	911.3	911.3
2.5°	1030.1	1028.5	1021.7	1020.4	1012.7	997.5	979.8	972.8	958.3	935.6	910.3
5°	1047.2	1048.1	1048.6	1045.6	1044.5	1032.1	1012.5	1004.0	984.7	947.3	901.0
7.5°	983.0	985.4	992.1	995.1	1008.1	1013.0	1008.9	1003.4	988.2	943.9	879.0
10°	915.5	919.4	926.8	931.7	947.7	960.7	977.4	978.8	975.5	933.1	854.2
12.5°	857.3	861.0	869.2	879.0	895.3	912.0	936.9	945.6	956.4	926.1	836.5
15°	807.1	808.2	816.2	828.3	849.8	873.1	902.3	915.2	936.4	923.3	822.9
17.5°	763.4	763.6	768.9	780.0	806.0	836.5	870.7	887.6	914.6	919.4	811.0
20°	734.6	734.4	734.6	740.7	763.6	799.9	841.4	859.0	893.6	914.8	798.8
22.5°	724.8	723.5	717.1	715.1	729.8	761.6	811.3	834.3	874.9	913.4	789.8
25°	736.8	735.9	722.6	710.1	711.5	731.3	780.5	808.8	860.1	918.3	787.6
27.5°	775.3	773.8	753.4	728.9	713.4	716.9	757.7	787.4	848.4	930.4	790.6
30°	825.9	826.3	804.5	774.9	738.3	718.3	745.5	773.5	840.6	948.3	797.2
32.5°	882.2	882.0	866.4	832.2	785.7	743.3	751.0	774.6	841.7	974.8	809.6
35°	940.4	937.4	932.3	902.1	847.7	787.0	775.6	793.1	853.1	1009.4	830.8
37.5°	1007.5	1006.6	1011.6	979.8	924.4	851.6	819.2	830.8	882.0	1060.9	865.1
40°	1114.3	1108.4	1110.8	1067.6	1010.9	938.2	880.1	883.0	927.9	1128.8	919.1
42.5°	1318.1	1293.9	1248.5	1167.4	1106.1	1034.5	959.7	954.5	992.8	1211.3	990.4
45°	1561.3	1533.6	1419.2	1277.5	1201.2	1137.9	1058.2	1044.3	1072.8	1309.4	1082.4
47.5°	1764.5	1734.5	1582.9	1392.6	1298.0	1244.3	1167.2	1150.9	1168.5	1423.3	1192.7
50°	1833.8	1817.2	1684.1	1488.2	1395.5	1363.9	1303.9	1276.8	1281.1	1546.2	1321.5
52.5°	1802.0	1796.3	1707.0	1553.8	1485.7	1496.1	1453.6	1425.3	1420.3	1680.5	1464.1
55°	1734.8	1732.1	1688.6	1590.2	1565.4	1617.0	1663.9	1639.1	1593.0	1823.2	1581.7
57.5°	1638.9	1649.2	1680.5	1660.3	1663.3	1744.9	1859.1	1871.9	1802.8	1936.8	1669.1
60°	1382.5	1410.2	1553.4	1735.6	1875.1	1957.4	2068.2	2092.1	1980.7	2014.5	1769.9
62.5°	1022.0	1061.6	1265.8	1600.5	1991.7	2361.7	2346.3	2335.7	2150.3	2118.7	1953.5
65°	600.2	646.8	819.4	1250.6	1815.8	2621.7	2865.6	2718.7	2408.8	2335.1	2245.8
67.5°	299.0	299.3	377.4	660.2	1342.0	2440.3	3623.6	3538.8	2958.6	2654.0	2360.9
70°	230.0	236.3	279.3	383.7	678.6	1900.6	3797.2	4145.6	3510.9	2639.8	2003.2
72.5°	194.9	199.1	248.6	333.9	507.4	1043.4	3287.3	3664.4	3350.3	2230.4	1476.5
75°	140.2	143.5	219.9	302.9	467.1	517.7	2254.9	2717.6	2513.7	1569.0	812.6
77.5°	34.9	34.6	76.6	245.7	417.9	431.1	1293.9	1742.7	1442.3	642.5	208.8
80°	15.5	14.9	17.3	51.7	388.7	407.0	569.0	880.1	553.3	104.2	63.9
82.5°	10.9	10.3	10.9	19.0	130.0	377.6	344.0	381.4	202.6	35.7	27.2
85°	3.6	3.2	6.0	16.0	36.4	217.7	335.4	284.9	150.6	15.2	18.2
87.5°	0.5	0.5	2.2	8.8	10.6	72.7	196.9	197.4	67.7	9.0	8.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P271237

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	911.3	911.3	911.3	911.3	911.3	911.3	911.3	911.3	911.3	911.3	911.3
2.5°	897.4	881.3	858.9	836.3	815.9	795.0	778.1	770.2	766.8	761.9	751.3
5°	876.7	847.7	798.2	749.5	704.1	660.7	623.5	602.3	579.3	578.2	567.1
7.5°	843.6	802.2	724.3	648.7	579.3	513.0	455.9	419.0	393.6	377.8	367.0
10°	806.7	753.7	650.4	544.1	449.7	361.1	287.6	239.8	210.7	196.0	187.6
12.5°	777.4	710.6	577.5	443.8	325.5	223.8	155.4	120.7	105.2	99.3	96.5
15°	752.1	671.3	509.2	354.0	217.2	128.5	90.0	78.6	76.1	76.1	75.8
17.5°	726.5	633.1	442.9	265.9	136.7	84.4	71.0	69.3	69.6	70.3	70.3
20°	702.2	597.1	378.9	189.5	89.7	67.5	64.4	63.9	64.7	65.8	65.5
22.5°	682.7	565.3	319.2	130.3	69.1	61.2	59.3	58.5	59.0	59.7	59.6
25°	668.8	538.1	264.2	90.8	60.0	55.8	53.5	52.6	51.9	52.6	52.2
27.5°	660.3	515.2	212.5	68.2	53.8	50.2	47.6	45.5	44.0	44.0	43.5
30°	655.0	493.7	166.6	56.6	48.7	44.8	41.1	38.1	35.9	35.4	35.0
32.5°	654.7	475.3	124.5	50.0	43.7	39.4	34.9	31.0	28.6	27.9	27.8
35°	661.5	460.3	91.6	45.2	39.4	34.2	29.0	25.1	22.8	22.8	22.5
37.5°	679.2	451.6	69.3	41.3	35.9	30.0	24.4	20.8	18.8	19.4	19.4
40°	712.0	450.0	56.6	38.4	32.9	26.1	19.9	16.9	16.0	16.9	16.9
42.5°	762.3	458.7	50.2	36.1	30.2	22.3	16.6	14.5	14.2	14.9	14.9
45°	827.9	475.8	46.7	34.2	27.2	18.4	13.8	12.4	12.2	13.4	13.4
47.5°	907.3	498.9	43.5	32.1	24.3	15.2	11.7	10.6	10.6	11.7	11.9
50°	1001.3	530.2	40.2	30.0	21.7	12.8	9.8	9.0	9.3	10.3	10.6
52.5°	1109.5	568.4	37.2	27.9	19.0	10.3	8.2	7.6	7.8	9.0	9.3
55°	1202.8	602.0	33.6	26.1	15.5	8.4	6.7	6.5	6.7	8.2	8.2
57.5°	1284.0	634.1	30.5	23.0	12.2	6.7	5.4	5.4	6.0	7.4	7.6
60°	1392.1	684.6	27.8	19.6	9.3	5.2	4.3	4.6	5.4	6.5	6.7
62.5°	1583.2	770.4	24.3	16.3	6.7	4.1	3.6	3.9	4.9	6.3	6.5
65°	1822.4	851.9	20.1	13.7	5.2	3.0	2.8	3.6	4.9	6.3	6.5
67.5°	1797.9	740.8	15.8	10.9	3.9	2.4	2.2	3.2	4.6	6.3	6.5
70°	1458.0	519.3	11.7	7.4	3.0	2.2	2.2	3.2	4.6	6.0	6.3
72.5°	1011.4	289.1	9.0	4.9	2.8	2.2	1.8	3.0	4.3	6.0	6.3
75°	481.2	88.7	7.0	3.6	2.4	1.8	1.6	3.0	4.3	6.0	6.3
77.5°	92.4	22.5	5.7	3.0	2.2	1.8	1.6	2.8	4.3	5.7	6.0
80°	31.4	10.1	4.6	2.8	2.2	1.8	1.6	2.8	4.1	5.4	5.7
82.5°	17.2	5.7	4.1	2.4	2.2	1.6	1.3	2.4	3.9	5.4	5.7
85°	13.4	4.1	3.2	2.4	2.2	1.6	1.3	2.4	3.9	5.2	5.4
87.5°	6.7	3.0	2.8	2.4	2.2	1.6	1.3	2.2	3.6	4.9	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)