

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: P198658

Luminaire Tested: **XNV-AF-01-LED-U-5WQ-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198658
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24131)
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-5WQ-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4241.1 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G1

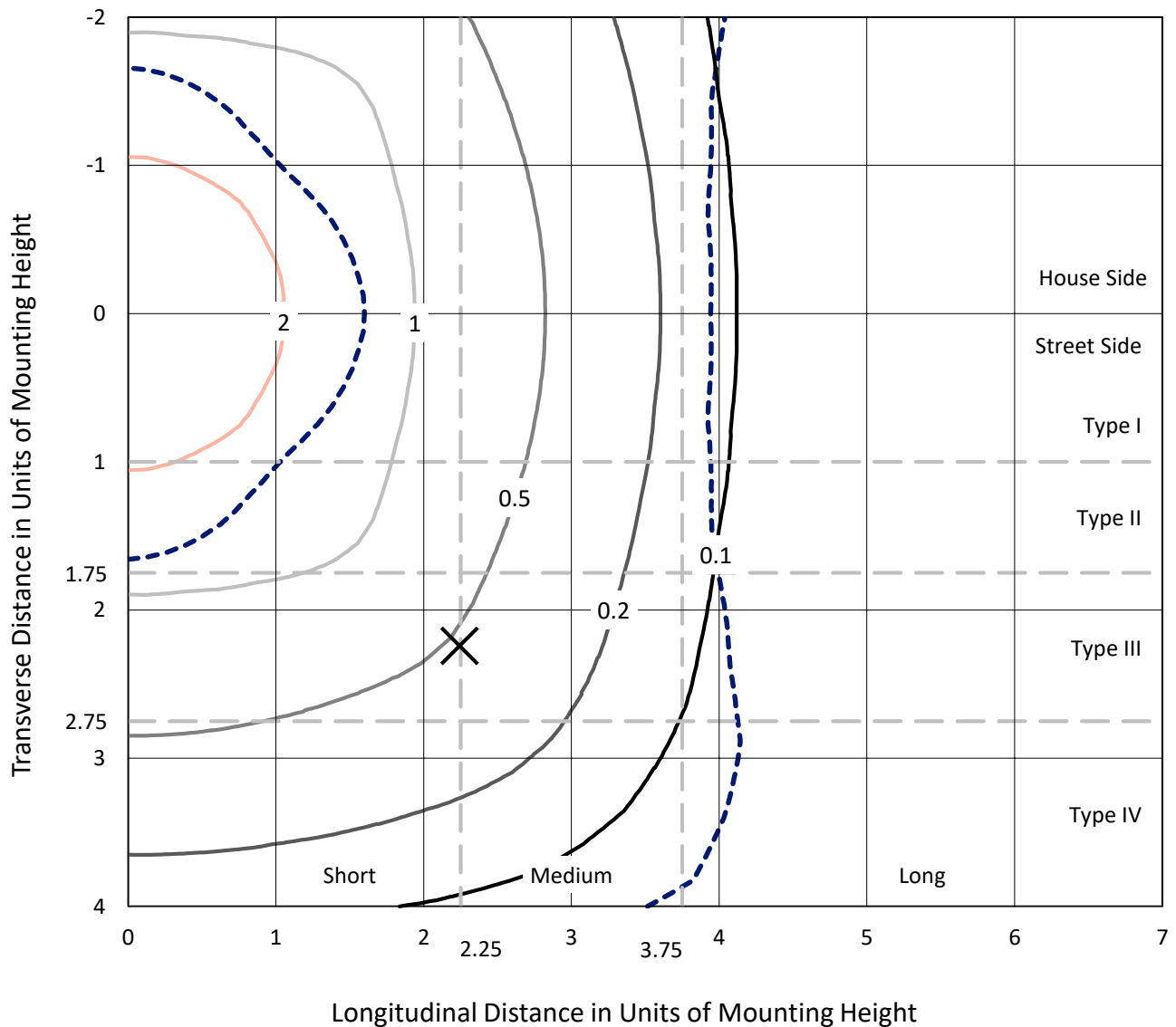
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

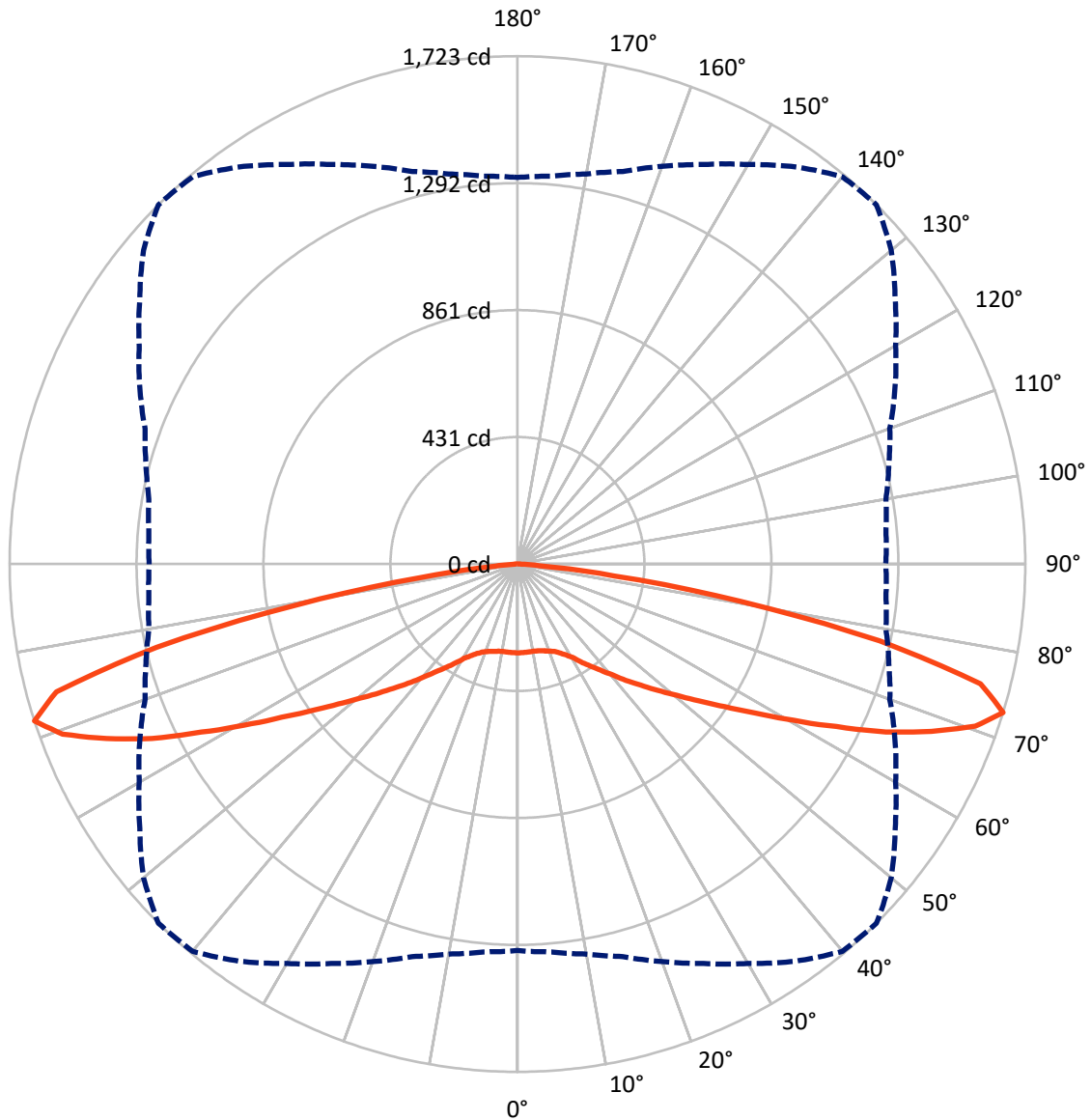
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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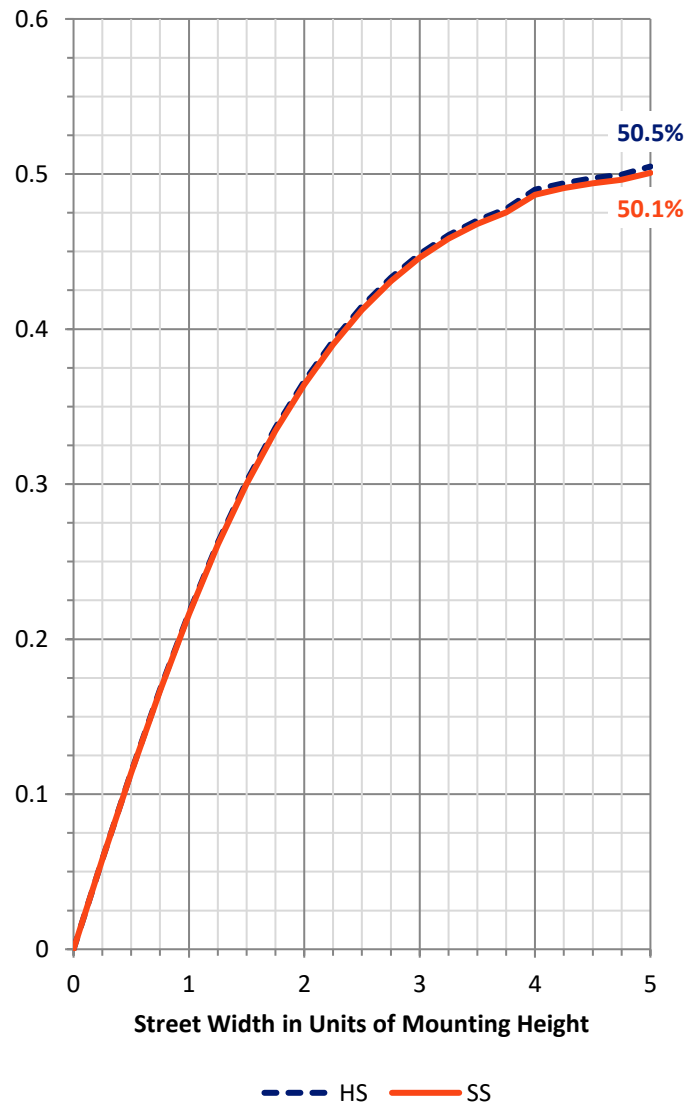
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2120.6	0.0	2120.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2120.6	0.0	2120.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	4241.1	0.0	4241.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.8	0.7
10°-20°	87.1	2.1
20°-30°	157.2	3.7
30°-40°	268.2	6.3
40°-50°	456.6	10.8
50°-60°	734.9	17.3
60°-70°	1222.1	28.8
70°-80°	1182.2	27.9
80°-90°	104.1	2.5
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°	4241.1	100.0
0°-180°	4241.1	100.0



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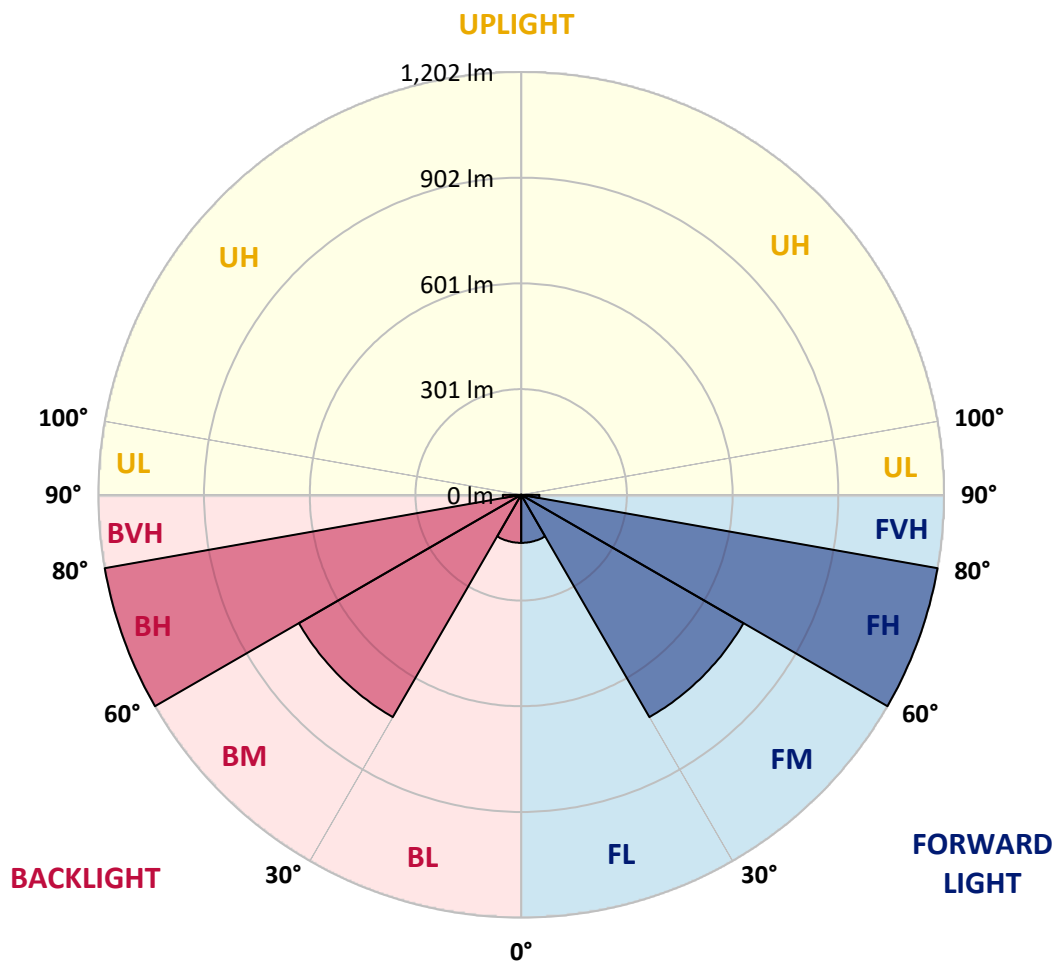
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	136.6	3.2			
FM	(30°-60°)	729.8	17.2			
FH	(60°-80°)	1202.1	28.3			G1/1800
FVH	(80°-90°)	52.0	1.2			G1/100
BL	(0°-30°)	136.6	3.2	B1/500		
BM	(30°-60°)	729.8	17.2	B1/1000		
BH	(60°-80°)	1202.1	28.3	B3/2500		G1/1800
BVH	(80°-90°)	52.0	1.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	301.5	301.5	301.5	301.5	301.5	301.5	301.5	301.5	301.5	301.5	301.5
2.5°	303.8	303.8	304.1	303.8	303.3	303.1	302.3	301.8	301.3	301.0	300.4
5°	304.1	304.1	304.4	304.1	303.6	303.1	302.6	301.8	301.3	300.7	300.4
7.5°	305.1	305.5	305.7	305.5	304.4	303.8	303.1	302.3	301.3	300.7	300.2
10°	307.3	307.3	307.3	307.0	306.2	305.1	304.1	303.3	302.1	300.7	299.9
12.5°	308.8	309.1	309.1	308.5	307.5	306.2	305.1	304.4	303.3	302.3	301.5
15°	311.2	311.2	310.9	309.9	308.3	307.3	306.8	306.5	306.2	305.7	304.9
17.5°	315.9	315.6	314.9	313.2	311.4	310.7	310.2	310.2	310.2	309.9	309.3
20°	322.6	322.6	321.6	319.0	317.4	316.7	315.9	315.9	315.9	315.1	314.4
22.5°	333.6	333.9	332.4	329.2	327.1	325.5	324.5	323.7	322.9	322.4	321.1
25°	348.5	348.2	346.4	342.5	340.9	339.4	337.3	335.9	334.9	334.1	332.6
27.5°	364.2	363.9	361.8	358.4	357.4	355.1	353.4	351.6	350.4	349.0	347.5
30°	384.2	383.0	381.4	378.8	378.3	376.4	374.3	371.7	369.7	367.5	365.7
32.5°	402.3	402.3	400.0	398.6	399.7	398.8	399.2	397.6	396.3	395.5	393.6
35°	427.4	427.4	426.3	424.7	425.0	423.2	422.9	423.2	424.2	424.2	422.1
37.5°	460.7	461.2	457.9	457.4	456.0	453.5	452.1	452.7	455.0	456.3	453.5
40°	502.3	503.3	502.3	498.9	497.3	492.9	490.3	490.3	492.0	493.4	492.3
42.5°	543.3	545.0	543.3	540.6	539.3	535.9	534.6	535.7	538.1	539.6	538.1
45°	588.9	590.2	587.9	584.7	583.2	581.3	580.6	581.3	584.0	585.5	585.0
47.5°	633.8	635.7	632.8	631.5	631.5	629.6	631.8	633.8	636.2	639.9	638.3
50°	677.7	680.1	678.2	678.5	680.6	683.9	687.8	692.0	696.2	700.1	700.6
52.5°	716.9	720.5	720.8	725.5	732.0	737.2	748.2	757.3	767.2	770.6	769.1
55°	758.1	763.0	769.6	776.9	787.4	798.0	816.5	833.0	846.1	854.2	852.8
57.5°	817.1	822.0	828.8	840.9	856.5	871.1	896.4	922.0	941.8	954.1	948.2
60°	893.5	898.8	907.7	920.5	940.8	960.7	995.4	1032.2	1063.1	1077.1	1066.1
62.5°	994.8	999.8	1005.6	1022.5	1045.3	1070.8	1114.4	1161.7	1200.8	1214.4	1199.0
65°	1139.3	1145.2	1147.0	1160.8	1183.0	1206.9	1253.8	1307.1	1351.7	1373.9	1343.1
67.5°	1301.9	1304.3	1311.5	1327.7	1350.4	1371.8	1408.9	1459.2	1502.1	1514.4	1481.4
70°	1397.1	1401.9	1414.6	1437.0	1464.3	1497.9	1538.4	1592.6	1641.2	1647.0	1605.2
72.5°	1311.0	1320.6	1343.3	1378.3	1435.3	1495.0	1564.7	1644.9	1714.6	1722.6	1655.5
75°	1051.5	1062.4	1089.6	1128.0	1195.3	1284.1	1384.9	1505.3	1609.6	1622.9	1534.2
77.5°	560.5	574.1	613.5	665.1	761.2	878.7	1000.0	1137.4	1226.1	1256.2	1192.2
80°	141.3	148.5	167.6	197.8	262.9	357.6	462.3	610.1	720.3	767.0	720.3
82.5°	54.8	60.3	65.6	69.2	75.5	88.5	122.1	199.2	268.3	330.5	286.1
85°	21.2	22.4	32.3	36.8	36.8	40.5	46.4	54.8	67.9	74.2	62.1
87.5°	8.4	9.1	11.3	17.2	17.8	15.7	16.7	18.8	14.3	12.0	13.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	301.5	301.5	301.5	301.5	301.5	301.5	301.5	301.5
2.5°	300.2	299.9	299.4	299.7	299.4	299.4	299.4	299.4
5°	299.9	299.9	299.4	299.4	299.4	299.7	299.4	299.4
7.5°	299.7	299.4	298.9	298.6	298.6	298.4	298.4	298.4
10°	299.2	298.6	298.1	297.9	297.9	297.4	297.4	297.4
12.5°	300.4	299.7	299.2	298.9	298.9	298.9	299.2	299.2
15°	304.1	302.6	301.8	301.5	301.8	302.3	302.6	302.8
17.5°	308.0	306.5	305.1	304.6	304.9	305.7	306.5	307.0
20°	313.0	311.7	310.2	309.6	309.6	310.7	311.2	312.0
22.5°	320.1	319.0	317.7	316.9	316.4	317.7	318.4	319.0
25°	331.2	330.2	329.2	328.4	328.2	329.5	330.0	330.2
27.5°	346.2	345.1	344.6	344.3	343.5	344.0	344.8	344.6
30°	365.5	366.2	365.5	365.5	364.2	364.7	364.2	363.7
32.5°	391.3	390.6	388.2	386.6	384.8	384.8	384.0	383.2
35°	417.2	414.5	413.3	414.0	413.3	413.8	412.5	411.1
37.5°	447.7	446.1	445.9	448.3	447.7	448.3	448.3	446.4
40°	488.2	487.1	489.0	492.9	494.4	494.2	494.7	492.3
42.5°	534.6	532.9	533.6	536.9	538.8	539.3	539.1	536.9
45°	581.1	581.6	581.6	585.2	587.1	588.2	586.4	585.5
47.5°	633.6	634.3	632.5	634.8	635.4	637.2	635.7	634.3
50°	694.2	691.3	687.1	687.8	687.8	687.3	685.5	683.9
52.5°	761.8	755.2	747.4	744.8	741.9	739.1	735.4	732.5
55°	838.7	827.6	813.5	806.9	801.4	794.9	786.5	783.7
57.5°	928.0	908.7	890.0	878.2	864.1	855.5	844.8	844.2
60°	1034.0	1007.9	974.8	957.3	943.2	933.0	925.0	921.8
62.5°	1156.4	1111.5	1075.8	1057.0	1040.5	1034.3	1024.1	1025.4
65°	1282.1	1236.3	1201.7	1186.5	1171.1	1166.9	1157.5	1160.8
67.5°	1418.0	1380.5	1342.3	1328.2	1314.1	1310.0	1300.3	1303.1
70°	1540.0	1492.2	1448.8	1421.2	1397.1	1377.8	1365.5	1360.6
72.5°	1564.2	1481.4	1413.3	1344.2	1304.3	1269.3	1254.9	1249.4
75°	1405.5	1277.1	1180.0	1098.8	1053.8	1003.0	997.5	989.9
77.5°	1093.3	947.0	829.6	725.2	664.9	602.7	581.3	565.2
80°	652.1	501.2	388.4	272.3	222.2	178.8	168.1	156.9
82.5°	233.3	149.6	100.8	78.6	70.2	64.8	60.6	55.0
85°	56.4	47.5	44.9	40.7	40.2	34.2	24.2	21.7
87.5°	18.0	16.5	16.7	16.0	16.7	12.5	10.2	9.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)