

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: INVUE

Report Number: P401287

Luminaire Tested: **ENV-SA1C-735-U-SL2-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401287
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1C-735-U-SL2-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3425 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

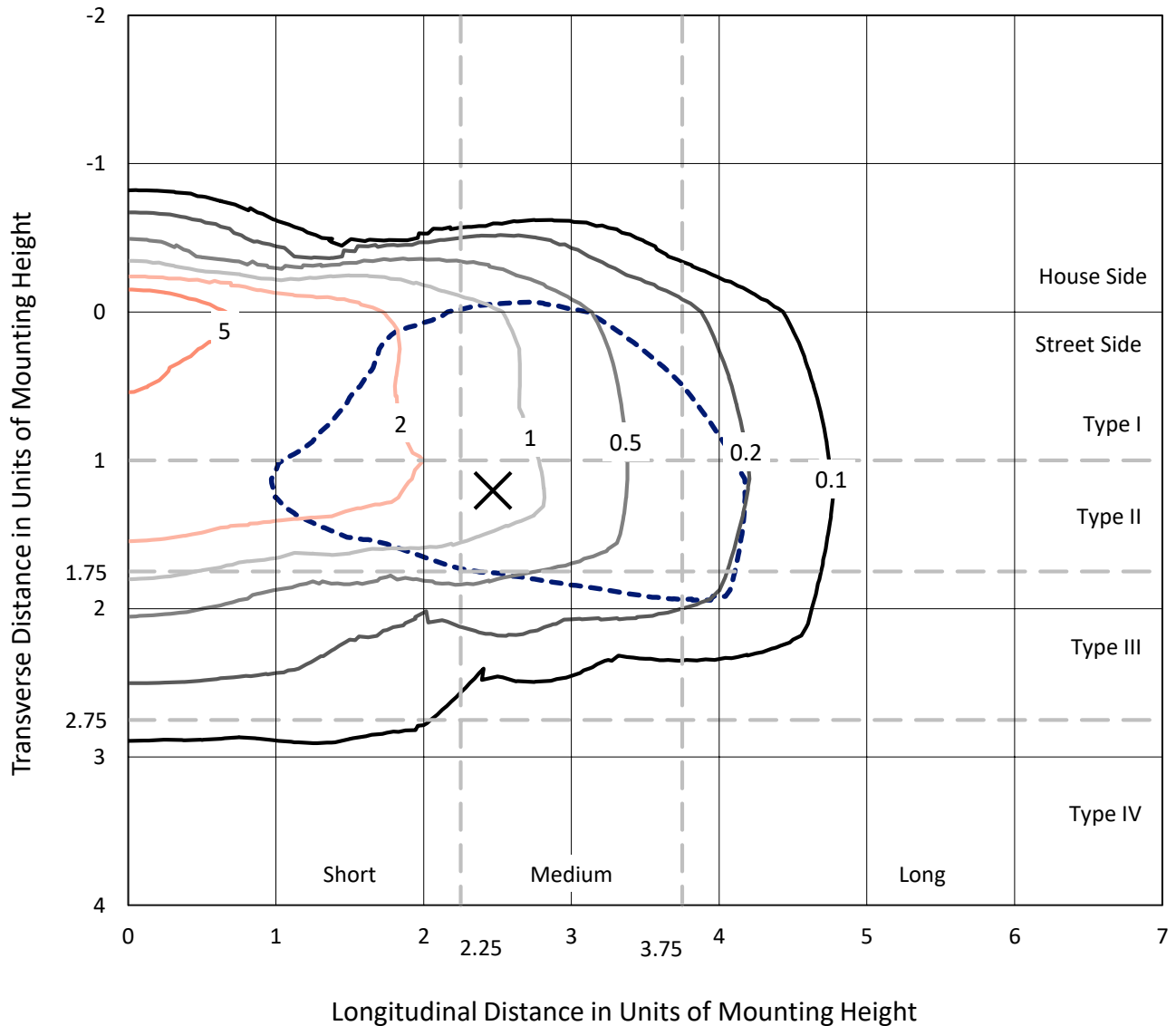
Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

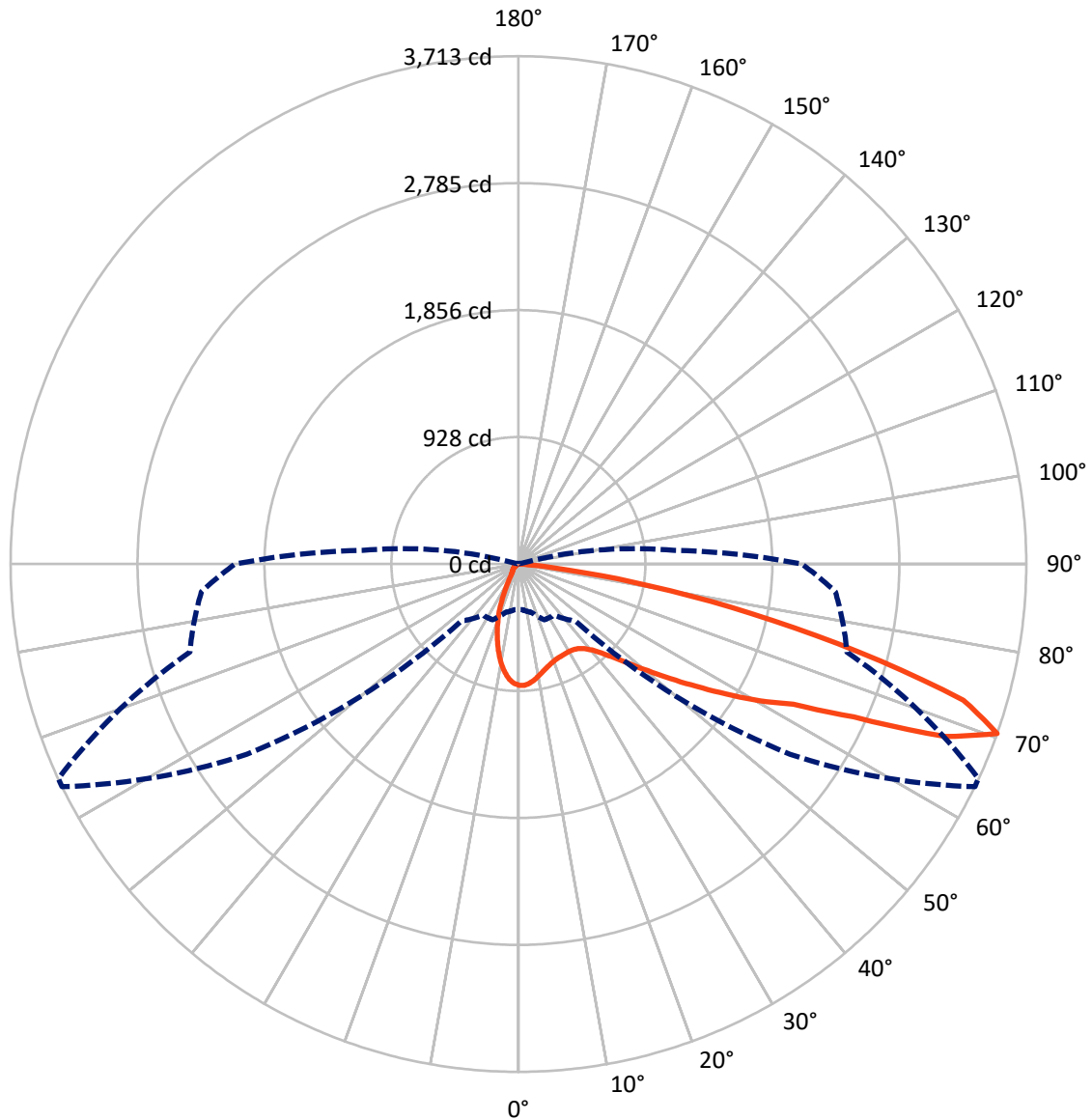
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.9 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	440.0	0.0	440.0
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	2985.0	0.0	2985.0
	% Fixture	87.2	0.0	87.2
Total	Lumens	3425.0	0.0	3425.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.7	2.2
10°-20°	165.8	4.8
20°-30°	228.3	6.7
30°-40°	314.4	9.2
40°-50°	468.6	13.7
50°-60°	740.3	21.6
60°-70°	838.8	24.5
70°-80°	550.8	16.1
80°-90°	43.2	1.3
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°	3425.0	100.0
0°-180°	3425.0	100.0



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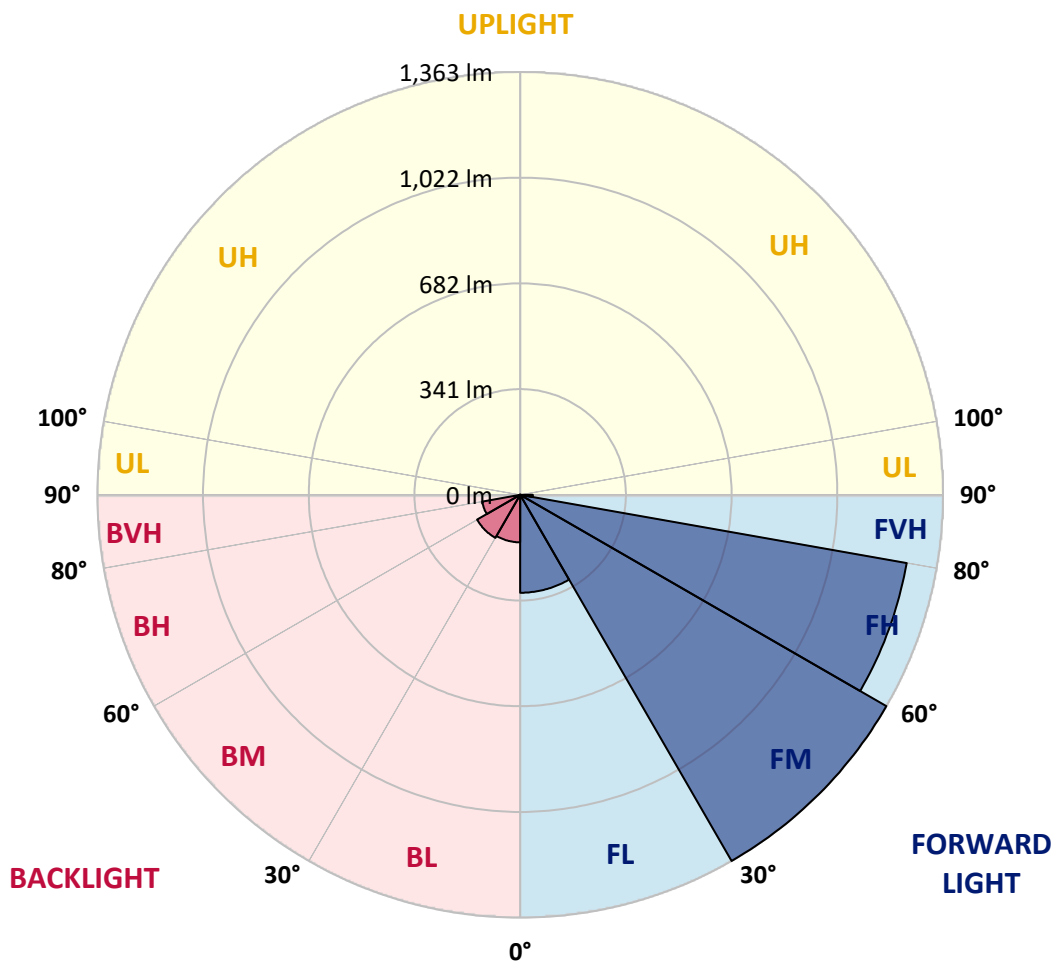
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	315.7	9.2			
FM	(30°-60°)	1363.1	39.8			
FH	(60°-80°)	1265.4	36.9			G1/1800
FVH	(80°-90°)	40.8	1.2			G1/100
BL	(0°-30°)	153.1	4.5	B1/500		
BM	(30°-60°)	160.2	4.7	B0/220		
BH	(60°-80°)	124.2	3.6	B1/500		G1/500
BVH	(80°-90°)	2.4	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	886.6	886.6	886.6	886.6	886.6	886.6	886.6	886.6	886.6	886.6	886.6
2.5°	861.9	861.9	866.1	870.3	872.7	879.4	884.2	887.8	887.8	890.2	886.0
5°	804.7	804.7	808.3	818.5	829.4	843.2	858.9	874.6	877.6	889.0	888.4
7.5°	751.7	756.5	762.5	772.8	784.2	804.7	826.4	853.5	856.5	884.2	890.2
10°	714.9	718.0	721.6	733.0	749.9	773.4	796.9	828.8	834.2	875.8	890.2
12.5°	685.4	686.0	691.5	704.1	720.4	743.3	769.8	804.7	811.3	860.7	887.8
15°	664.3	663.7	669.8	681.8	697.5	721.0	746.9	783.6	790.8	848.1	887.2
17.5°	651.7	652.3	657.1	666.2	681.2	703.5	730.0	766.1	773.4	837.8	890.2
20°	651.7	651.7	654.7	658.9	670.4	690.2	716.1	753.5	760.7	831.2	894.4
22.5°	664.3	663.1	665.6	661.9	667.4	681.2	707.7	745.1	752.9	828.2	901.1
25°	687.2	684.8	686.6	678.8	672.8	678.8	702.3	741.4	749.9	828.8	907.1
27.5°	719.2	719.2	715.5	704.7	689.6	683.0	701.7	739.0	747.5	828.8	911.3
30°	763.7	761.9	756.5	745.7	722.2	699.9	707.7	739.0	747.5	829.4	912.5
32.5°	808.3	809.5	812.5	801.7	769.8	728.8	722.2	744.5	751.7	828.8	910.7
35°	853.5	854.1	867.3	868.5	827.6	775.2	746.9	758.9	763.7	834.8	911.9
37.5°	893.2	896.2	922.1	934.8	901.1	834.8	786.0	786.0	788.4	851.1	919.1
40°	937.8	945.6	976.9	1005.3	992.0	911.3	843.2	825.8	827.0	880.6	935.4
42.5°	989.6	999.2	1040.2	1081.1	1080.5	1005.3	915.5	889.0	890.2	931.8	968.5
45°	1055.3	1061.9	1113.7	1164.9	1175.7	1108.9	1006.5	971.5	972.7	1009.5	1033.0
47.5°	1135.4	1143.2	1193.2	1254.6	1282.3	1233.5	1124.5	1086.6	1083.0	1108.9	1125.7
50°	1240.2	1255.2	1284.7	1343.8	1410.6	1378.1	1263.0	1225.1	1220.3	1240.8	1246.2
52.5°	1340.1	1354.0	1366.0	1420.3	1549.7	1557.6	1432.9	1391.3	1386.5	1391.3	1398.0
55°	1355.2	1363.0	1372.1	1445.5	1662.4	1785.9	1626.2	1576.9	1563.0	1554.0	1576.3
57.5°	1235.3	1230.5	1260.6	1360.6	1681.1	2038.2	1887.6	1791.9	1778.6	1728.6	1706.3
60°	978.2	971.5	999.8	1136.6	1576.3	2163.5	2250.2	2029.8	1997.3	1829.8	1808.1
62.5°	687.2	679.4	716.1	796.9	1222.7	2138.8	2659.2	2255.1	2190.6	1919.6	1890.1
65°	529.4	525.8	545.7	563.8	746.3	1852.7	2884.5	2694.7	2561.6	2017.1	1979.2
67.5°	415.0	419.8	444.5	496.9	481.8	1154.6	2863.4	3365.7	3232.6	2196.6	2172.5
70°	333.7	334.9	365.6	449.3	454.7	587.9	2424.3	3712.7	3710.8	2486.3	2326.1
72.5°	201.8	207.2	257.2	388.5	459.0	449.9	1629.9	3401.9	3448.8	2553.8	2097.9
75°	97.0	102.4	133.1	260.8	456.0	437.9	881.8	2575.5	2635.7	2290.0	1700.9
77.5°	36.1	41.0	61.4	127.7	337.9	401.1	463.8	1736.5	1784.0	1676.2	1152.2
80°	11.4	13.3	24.1	58.4	171.7	331.3	298.7	979.4	1011.3	733.6	387.3
82.5°	1.2	1.8	6.6	19.9	66.3	168.6	175.3	368.6	384.9	143.4	78.3
85°	0.0	0.0	0.0	0.0	1.2	1.2	43.4	70.5	57.8	13.9	22.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.6	1.2	1.8	1.8	1.8	2.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	886.6	886.6	886.6	886.6	886.6	886.6	886.6	886.6	886.6	886.6	886.6
2.5°	885.4	885.4	881.2	874.6	866.1	854.1	851.1	841.4	841.4	833.6	832.4
5°	886.6	883.0	869.1	848.7	820.3	789.6	770.4	749.3	731.2	719.8	721.0
7.5°	886.6	878.8	851.1	805.9	752.9	699.9	659.5	612.6	590.9	576.4	583.0
10°	884.2	870.9	822.8	754.1	670.4	596.9	530.6	476.4	439.1	423.4	410.2
12.5°	878.8	859.5	787.2	689.6	582.4	486.1	394.5	323.4	274.1	249.4	246.3
15°	874.0	847.5	745.7	619.2	483.1	357.2	254.8	186.7	144.6	134.9	136.1
17.5°	872.7	836.0	705.9	544.5	386.1	237.9	147.0	118.7	112.6	110.2	109.6
20°	873.4	825.8	662.5	470.4	273.4	148.2	111.4	104.8	102.4	101.2	100.6
22.5°	875.8	814.3	619.8	392.7	186.7	108.4	99.4	95.2	92.2	90.3	89.7
25°	875.8	801.7	572.2	310.2	122.3	95.2	89.1	83.7	79.5	77.1	77.1
27.5°	874.0	787.2	522.8	235.5	97.0	84.9	78.3	71.1	65.7	62.6	62.6
30°	868.5	769.8	475.2	164.4	84.9	75.9	67.5	58.4	51.8	48.8	47.6
32.5°	860.7	751.1	420.4	115.6	76.5	66.3	56.6	47.0	41.0	37.3	37.3
35°	852.3	732.4	361.4	88.5	69.3	58.4	47.6	37.9	32.5	30.1	29.5
37.5°	848.1	712.5	303.6	76.5	62.0	50.0	38.5	30.7	26.5	24.7	24.1
40°	851.1	697.5	246.9	68.7	55.4	42.2	31.9	25.9	22.3	19.9	19.9
42.5°	869.1	689.0	193.3	62.6	49.4	35.5	26.5	21.1	17.5	15.7	15.7
45°	905.9	695.1	147.0	57.2	42.2	29.5	22.3	16.9	13.3	11.4	11.4
47.5°	967.3	719.2	111.4	52.4	36.1	24.1	18.1	13.3	10.2	9.0	8.4
50°	1057.1	766.7	87.3	47.6	30.1	20.5	15.1	10.2	7.8	6.6	6.6
52.5°	1186.6	849.3	74.7	42.2	24.7	16.9	12.0	7.8	6.0	4.8	4.8
55°	1345.6	954.1	67.5	37.3	19.9	13.9	9.6	6.0	4.2	3.6	3.0
57.5°	1474.5	1037.2	63.2	32.5	16.9	12.0	7.2	4.8	3.6	2.4	2.4
60°	1588.3	1090.8	56.0	27.1	14.5	9.6	6.0	3.6	2.4	1.8	1.8
62.5°	1680.5	1125.7	46.4	21.7	12.0	7.8	4.8	3.0	2.4	1.8	1.8
65°	1785.3	1154.0	37.9	16.9	10.2	6.6	4.2	2.4	1.8	1.8	1.8
67.5°	1990.6	1217.3	28.3	13.3	7.8	5.4	3.6	2.4	1.8	1.2	1.2
70°	2070.7	1143.2	22.3	10.8	6.0	4.8	3.6	2.4	1.2	1.2	1.2
72.5°	1762.4	855.9	17.5	9.0	5.4	4.2	3.6	2.4	1.8	1.8	1.2
75°	1398.0	578.2	13.9	7.2	5.4	4.8	3.6	3.6	3.0	2.4	2.4
77.5°	892.6	256.0	10.8	6.0	5.4	6.0	5.4	3.6	3.6	3.0	3.0
80°	266.2	61.4	7.8	4.8	4.2	4.8	5.4	3.6	2.4	1.8	1.8
82.5°	57.8	14.5	4.8	2.4	3.0	2.4	3.6	3.6	2.4	1.8	1.8
85°	19.3	5.4	3.0	2.4	1.8	1.8	1.8	1.8	1.8	1.8	1.2
87.5°	1.2	1.8	1.8	1.2	1.2	1.2	1.2	0.6	0.6	1.2	1.2
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)