

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: McGRAW-EDISON

Report Number: P526099

Luminaire Tested: **GALN-SA1A-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526099  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1A-735-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2516 lumens  
Efficiency: N/A  
Efficacy: 76.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

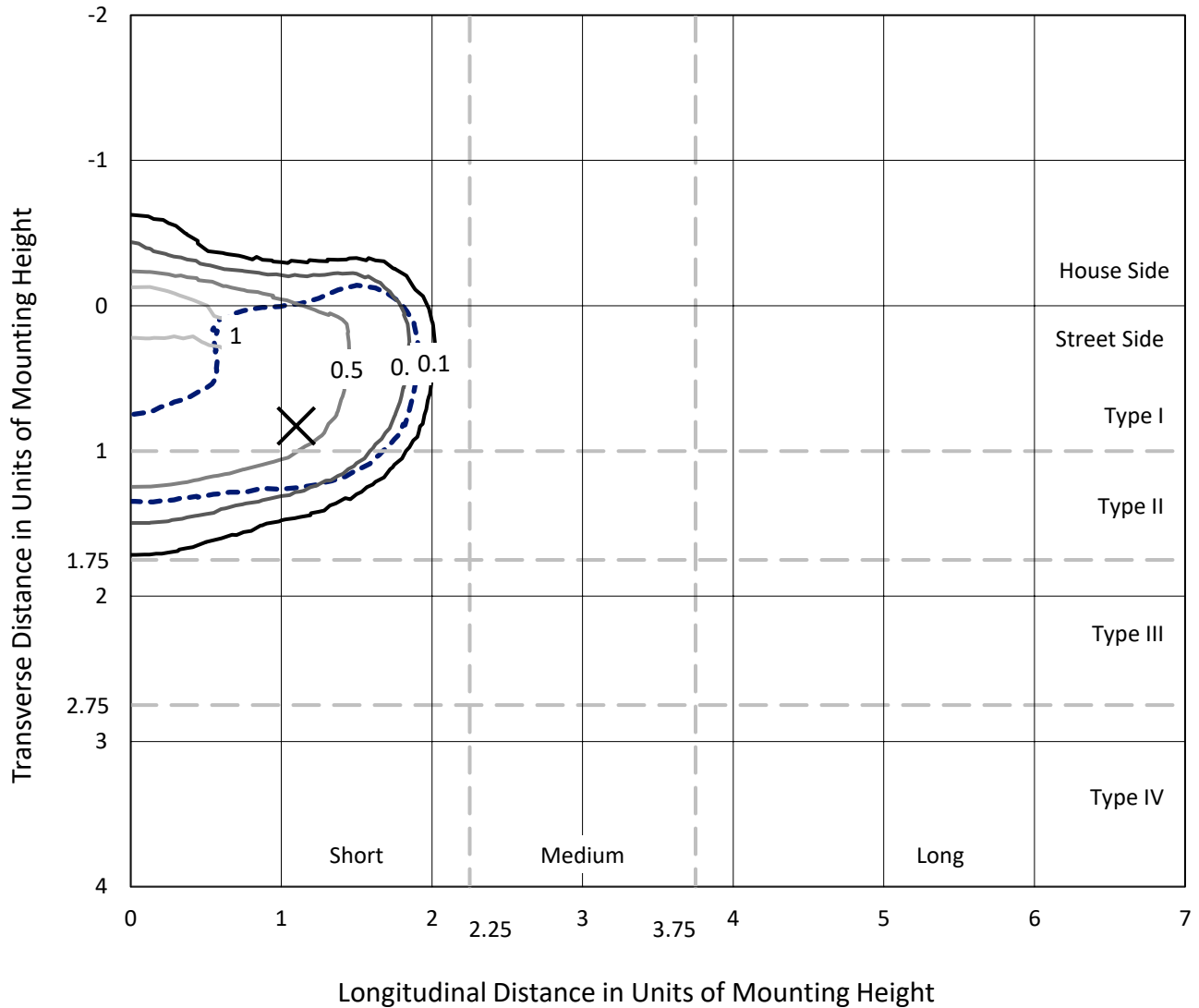
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

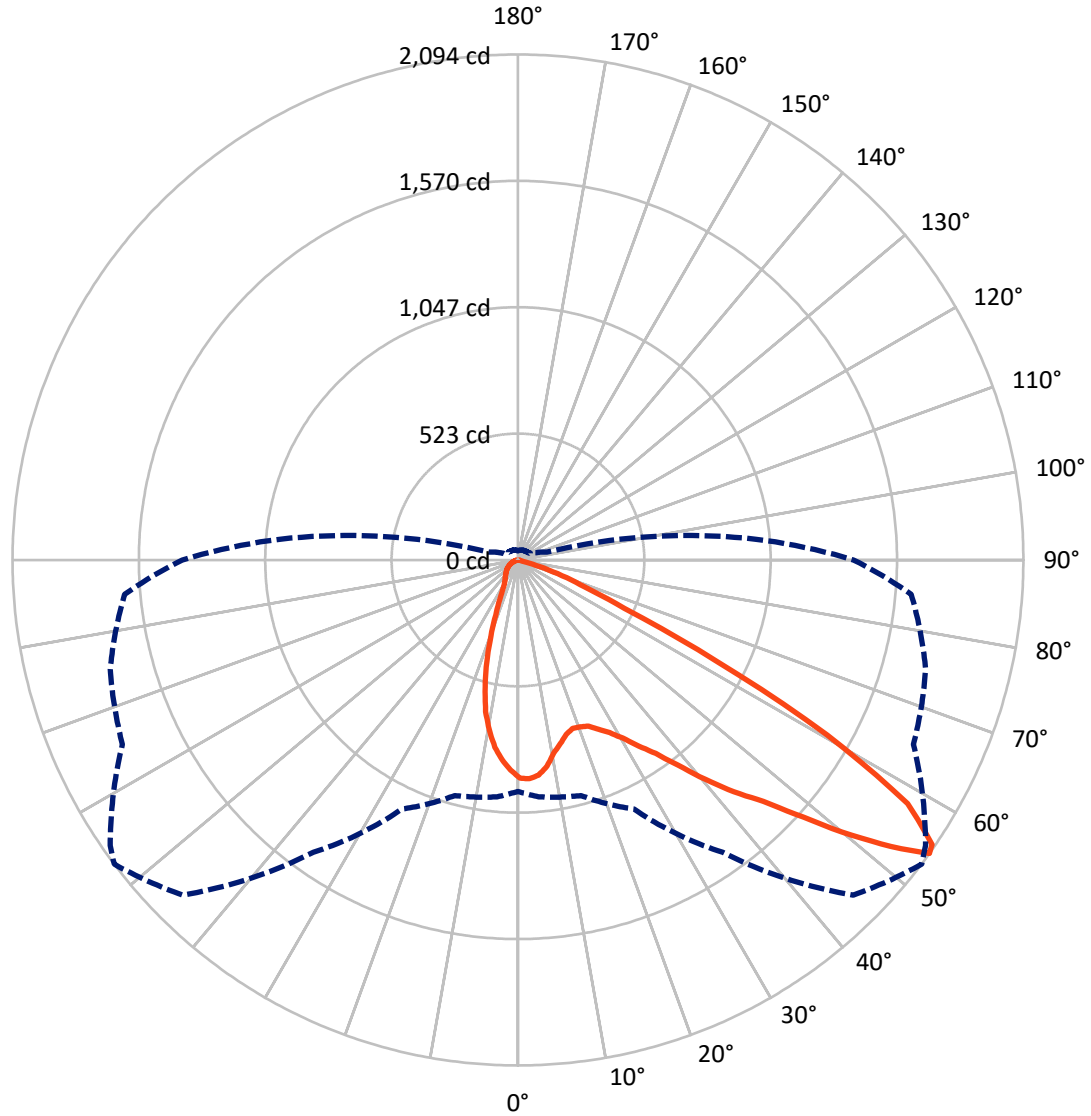
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	416.3	0.0	416.3
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	2099.7	0.0	2099.7
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	2516.0	0.0	2516.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.5	3.1
10°-20°	177.8	7.1
20°-30°	252.6	10.0
30°-40°	389.9	15.5
40°-50°	611.3	24.3
50°-60°	710.1	28.2
60°-70°	268.3	10.7
70°-80°	25.5	1.0
80°-90°	2.9	0.1
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°	2516.0	100.0
0°-180°	2516.0	100.0

**Coefficient of Utilization**



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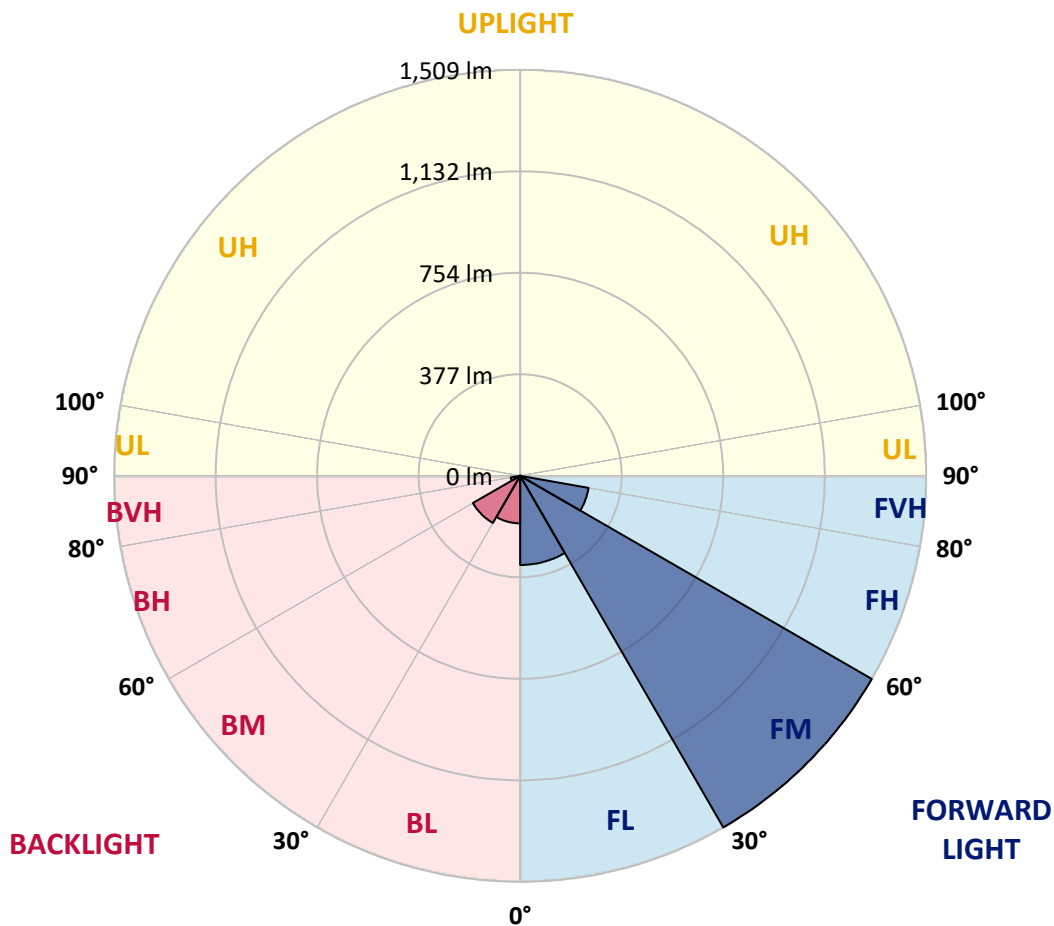
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	331.3	13.2			
FM (30°-60°)	1508.8	60.0			
FH (60°-80°)	258.2	10.3			G0/660
FVH (80°-90°)	1.5	0.1			G0/10
BL (0°-30°)	176.7	7.0	B1/500		
BM (30°-60°)	202.6	8.1	B0/220		
BH (60°-80°)	35.7	1.4	B0/110		G0/110
BVH (80°-90°)	1.4	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-G0**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	903.7	903.7	903.7	903.7	903.7	903.7	903.7	903.7	903.7	903.7	903.7
2.5°	899.0	891.0	899.0	900.0	905.6	910.7	907.5	915.0	910.7	906.0	904.6
5°	826.4	837.1	837.6	854.5	850.7	881.7	895.3	891.5	914.5	913.1	909.8
7.5°	761.2	757.0	762.6	782.3	807.1	842.8	862.5	862.0	894.8	918.2	915.9
10°	700.7	700.3	712.0	727.5	748.6	786.1	813.2	826.8	877.9	913.5	918.7
12.5°	660.0	658.1	670.7	683.4	716.7	745.7	780.4	787.0	845.6	897.1	905.6
15°	633.2	637.5	638.4	662.8	683.9	722.3	749.5	763.1	830.6	884.0	916.4
17.5°	628.6	634.2	634.7	654.8	677.3	709.7	733.6	751.8	817.9	890.6	916.8
20°	637.9	634.7	637.5	650.1	672.2	703.1	737.8	743.9	813.7	893.9	922.0
22.5°	664.7	663.7	656.7	667.0	682.5	714.8	747.6	757.0	825.9	910.7	926.2
25°	694.2	699.3	692.8	691.4	702.2	734.0	777.6	789.8	866.7	941.2	939.3
27.5°	749.5	744.3	744.3	737.8	735.0	750.4	810.0	830.1	912.1	980.6	954.3
30°	802.5	808.1	803.9	806.2	787.5	786.1	855.9	880.7	992.8	1040.6	986.2
32.5°	886.4	878.9	885.9	879.8	855.0	829.6	918.2	944.0	1090.3	1109.5	1034.0
35°	956.2	952.9	982.9	982.0	941.7	916.8	984.3	1022.8	1158.2	1192.0	1090.3
37.5°	1055.6	1049.5	1083.7	1100.1	1064.0	1027.0	1079.0	1123.5	1221.5	1258.1	1147.9
40°	1157.8	1173.2	1219.2	1246.3	1207.9	1158.7	1194.8	1208.4	1263.7	1301.2	1187.3
42.5°	1287.1	1309.6	1356.5	1379.9	1376.6	1323.2	1312.4	1312.0	1294.2	1289.0	1216.3
45°	1411.3	1402.9	1475.1	1526.2	1567.4	1552.0	1425.9	1411.8	1342.4	1307.3	1223.8
47.5°	1465.7	1462.9	1512.1	1603.0	1743.7	1762.9	1590.9	1536.5	1424.0	1384.1	1264.6
50°	1395.4	1409.9	1458.7	1559.5	1775.1	1921.8	1793.3	1720.2	1519.1	1477.9	1361.2
52.5°	1165.7	1175.6	1222.0	1349.9	1668.2	2015.5	1987.4	1945.2	1694.0	1625.5	1529.5
54°	958.5	984.8	1010.1	1138.5	1477.9	1963.5	2093.8	2061.5	1807.9	1748.4	1635.4
55°	834.8	850.3	868.6	996.5	1346.2	1875.4	2081.6	2084.4	1884.3	1786.8	1706.6
57.5°	609.8	620.6	601.8	658.6	924.3	1522.9	1904.0	1979.9	1987.4	1844.4	1750.2
60°	465.9	470.6	449.5	458.4	574.7	1045.3	1472.7	1564.1	1792.9	1612.0	1482.6
62.5°	361.4	362.3	361.9	377.3	396.1	615.0	921.0	1002.1	1236.0	1144.6	1006.8
65°	266.2	262.0	269.5	316.4	338.0	386.7	485.1	544.2	671.7	567.2	405.4
67.5°	172.5	173.9	181.4	235.3	289.7	296.7	298.6	293.9	294.4	162.2	101.7
70°	103.6	105.9	103.6	133.1	207.2	212.8	194.5	189.8	148.1	38.4	38.0
72.5°	61.4	58.1	52.0	57.2	86.2	103.1	92.8	92.3	58.1	22.5	22.5
75°	25.8	23.4	19.2	17.3	23.0	22.0	22.0	19.7	15.5	15.0	14.1
77.5°	5.2	5.2	3.7	4.2	5.6	6.6	8.0	8.0	9.4	9.4	8.9
80°	0.0	0.5	1.4	2.8	4.2	6.1	7.0	7.0	8.0	8.0	6.6
82.5°	0.0	0.5	1.4	2.8	3.7	5.6	7.0	7.0	8.0	8.4	7.0
85°	0.0	0.5	1.4	2.3	3.7	4.7	4.7	4.2	3.3	2.8	1.9
87.5°	0.0	0.0	0.5	0.9	0.5	0.9	0.9	0.9	0.9	0.9	0.9
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°	903.7	903.7	903.7	903.7	903.7	903.7	903.7	903.7	903.7	903.7	903.7
2.5°	907.9	907.5	896.2	877.9	873.7	858.2	856.4	847.0	852.1	834.8	832.9
5°	900.4	894.8	881.2	869.5	835.3	810.9	791.7	768.2	754.6	757.0	748.1
7.5°	911.2	896.7	872.8	832.0	790.3	747.6	724.7	676.8	659.5	633.7	630.0
10°	900.0	889.2	852.1	784.6	727.0	665.6	611.7	558.7	518.4	501.1	497.3
12.5°	899.0	880.3	818.4	743.4	660.0	571.8	493.6	427.5	387.6	365.1	360.0
15°	884.5	862.0	780.4	679.7	564.3	454.7	369.4	305.6	275.1	262.0	265.8
17.5°	885.9	852.1	742.5	612.2	470.1	333.7	252.2	219.4	211.4	214.7	214.7
20°	884.5	830.1	696.5	534.3	360.0	231.6	185.1	173.4	178.6	188.9	186.6
22.5°	877.0	819.8	654.3	452.3	264.8	171.6	148.6	149.1	157.0	169.7	172.5
25°	882.6	796.8	600.9	369.4	193.1	136.9	128.9	132.2	140.6	150.0	151.9
27.5°	878.4	780.4	545.1	286.9	141.1	117.7	117.2	120.9	124.7	131.7	131.7
30°	883.1	765.4	490.3	213.3	116.2	107.8	105.9	108.7	112.5	113.9	113.4
32.5°	900.4	754.2	427.0	159.4	102.7	98.4	98.4	98.4	98.0	99.8	100.3
35°	938.4	756.1	371.2	123.3	93.7	90.5	89.1	87.2	86.2	87.2	87.7
37.5°	979.6	755.1	313.6	105.0	87.2	84.4	81.1	78.3	77.8	78.7	77.3
40°	997.9	764.0	260.1	94.2	81.1	77.8	72.7	70.3	70.8	71.7	70.8
42.5°	1022.8	766.8	225.5	85.8	75.5	70.3	67.0	64.2	63.7	65.2	64.7
45°	1022.3	750.9	188.9	81.1	70.3	64.7	60.5	58.1	58.1	59.1	59.5
47.5°	1052.3	748.6	162.2	76.9	66.6	60.9	55.8	53.9	53.4	53.4	52.5
50°	1122.1	781.4	141.6	72.2	61.9	56.7	52.5	50.2	48.3	47.3	46.9
52.5°	1258.5	883.5	125.6	66.6	56.7	52.5	48.7	46.9	44.5	42.2	41.7
54°	1390.7	989.0	124.7	61.9	52.5	49.7	46.4	45.5	42.7	39.4	38.4
55°	1450.2	1050.4	128.0	58.1	49.7	47.8	45.0	44.1	41.2	37.5	37.0
57.5°	1499.5	1074.3	126.1	48.3	45.0	44.5	42.2	40.8	37.5	32.3	31.4
60°	1207.0	812.3	90.5	42.7	41.2	40.3	38.4	37.5	33.3	27.7	27.2
62.5°	762.6	467.3	57.7	37.5	36.1	34.7	32.3	31.4	27.7	22.0	20.6
65°	324.8	193.6	38.9	33.3	30.9	28.6	26.7	25.3	22.0	16.4	15.9
67.5°	84.4	68.9	32.3	29.1	25.8	22.5	21.1	18.7	15.0	11.2	10.8
70°	38.0	34.7	27.2	24.4	20.6	17.3	15.5	13.1	9.8	7.5	7.0
72.5°	22.5	22.0	20.6	18.3	15.5	13.1	11.2	8.9	6.6	4.2	4.2
75°	14.1	13.6	14.1	12.7	10.8	9.8	8.4	6.1	3.7	1.9	1.9
77.5°	8.4	8.4	8.4	8.0	7.5	7.5	6.1	3.7	1.9	0.5	0.5
80°	6.6	6.6	7.0	6.6	6.6	6.6	5.2	2.8	0.9	0.0	0.0
82.5°	6.6	7.0	8.0	7.5	6.6	5.6	4.7	2.8	0.9	0.0	0.0
85°	1.9	1.4	2.3	3.3	4.7	4.2	3.3	2.3	0.9	0.0	0.0
87.5°	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.0	0.0
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)