

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: P526835

Luminaire Tested: **GALN-SA1D-740-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526835  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-740-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4617 lumens  
Efficiency: N/A  
Efficacy: 71.0 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

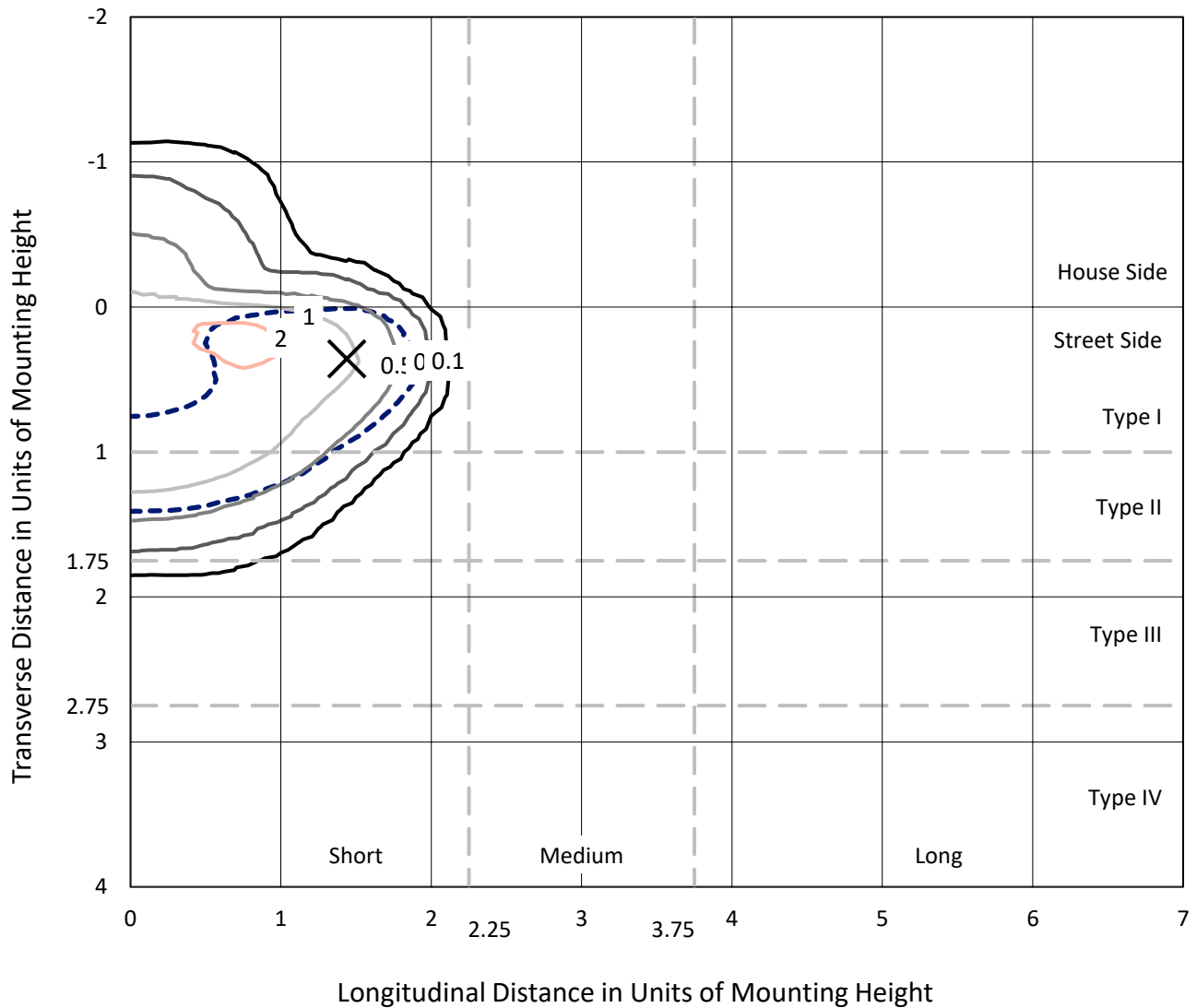
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

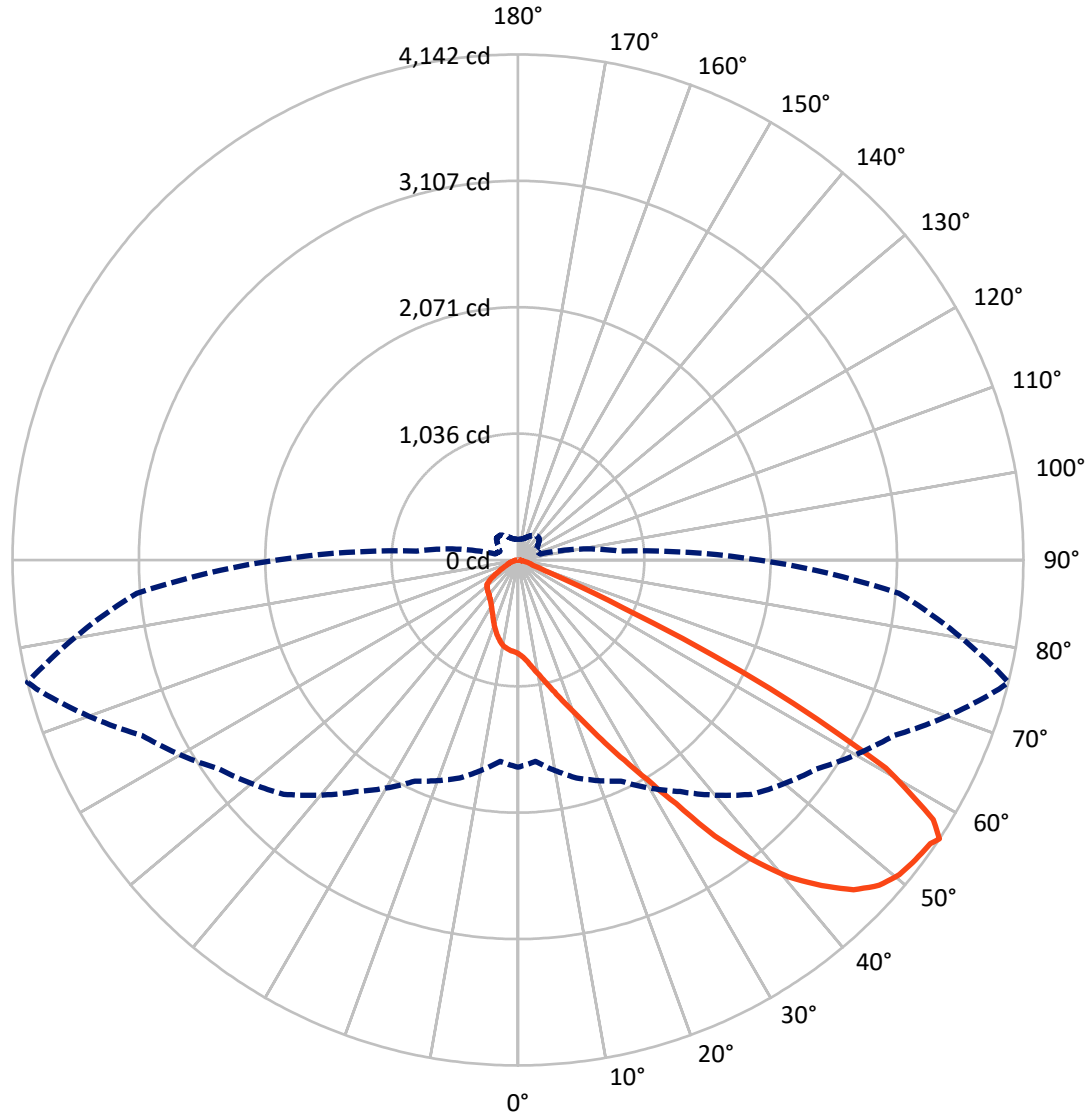
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	725.3	0.0	725.3
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	3891.7	0.0	3891.7
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	4617.0	0.0	4617.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.4	1.7
10°-20°	248.7	5.4
20°-30°	451.0	9.8
30°-40°	777.7	16.8
40°-50°	1263.5	27.4
50°-60°	1331.7	28.8
60°-70°	406.9	8.8
70°-80°	52.2	1.1
80°-90°	7.9	0.2
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°	4617.0	100.0
0°-180°	4617.0	100.0

**Coefficient of Utilization**

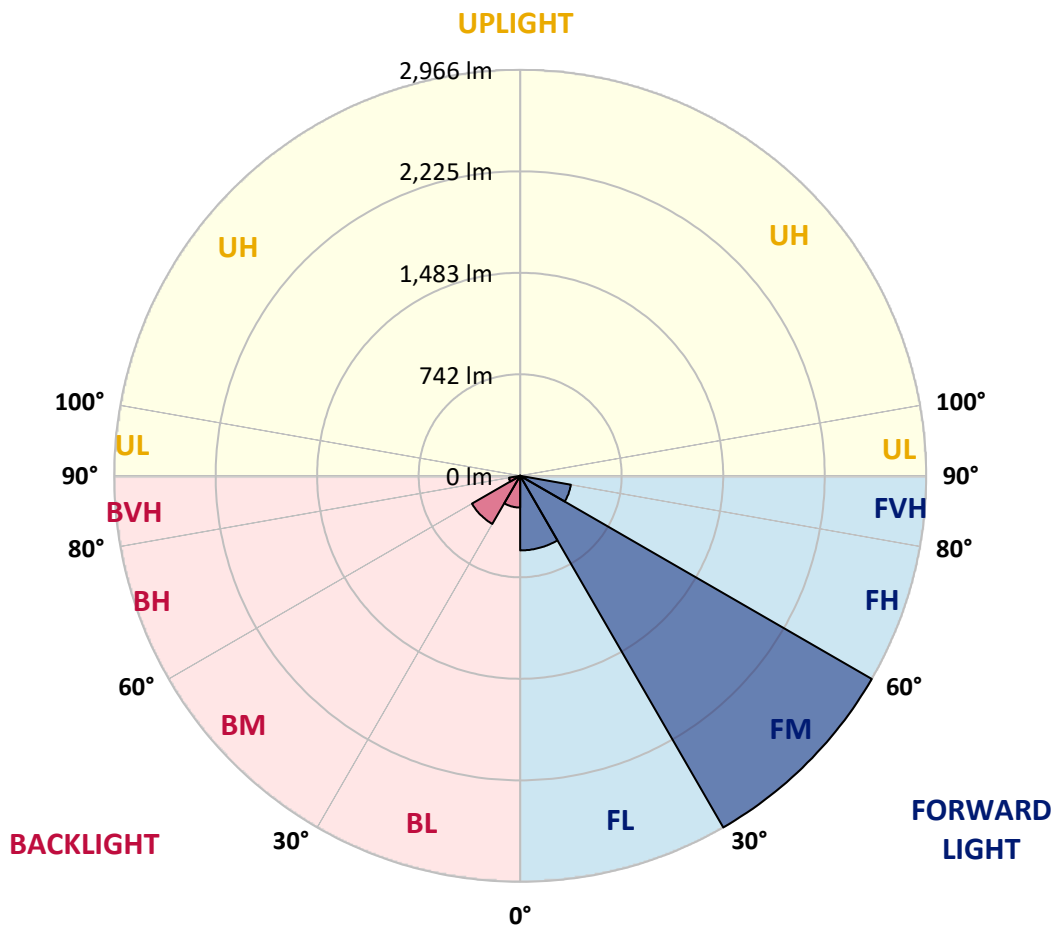


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	545.1	11.8			
FM (30°-60°)	2966.4	64.2			
FH (60°-80°)	376.3	8.2			G0/660
FVH (80°-90°)	3.9	0.1			G0/10
BL (0°-30°)	232.0	5.0	B1/500		
BM (30°-60°)	406.5	8.8	B1/1000		
BH (60°-80°)	82.7	1.8	B0/110		G0/110
BVH (80°-90°)	4.1	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°	55°	65°	75°	76°	85°
0°	768.5	768.5	768.5	768.5	768.5	768.5	768.5	768.5	768.5	768.5	768.5
2.5°	885.1	864.7	865.5	863.8	861.3	851.9	823.8	819.6	800.8	795.7	778.7
5°	991.5	973.6	983.8	968.5	954.0	945.5	899.6	878.3	848.5	837.4	813.6
7.5°	1057.9	1049.4	1046.0	1046.8	1033.2	1011.9	991.5	944.7	904.7	896.2	846.0
10°	1090.2	1085.1	1090.2	1087.7	1093.6	1096.2	1060.4	1032.3	973.6	959.1	880.8
12.5°	1097.9	1108.1	1112.3	1123.4	1137.9	1162.5	1160.0	1121.7	1043.4	1034.0	934.5
15°	1116.6	1125.1	1120.8	1138.7	1166.0	1207.7	1229.8	1223.8	1139.6	1122.5	996.6
17.5°	1133.6	1118.3	1132.8	1168.5	1195.7	1259.6	1313.2	1337.9	1244.2	1224.7	1053.6
20°	1156.6	1152.3	1149.8	1167.7	1216.2	1301.3	1407.7	1452.8	1361.7	1341.3	1135.3
22.5°	1226.4	1227.2	1225.5	1199.1	1234.0	1330.2	1490.2	1601.7	1502.1	1485.1	1228.1
25°	1318.3	1307.2	1298.7	1277.4	1273.2	1356.6	1573.6	1783.8	1670.6	1658.7	1328.5
27.5°	1415.3	1415.3	1389.8	1370.2	1343.0	1422.1	1650.2	1960.8	1874.0	1857.9	1416.2
30°	1520.8	1526.8	1523.4	1481.7	1464.7	1493.6	1728.5	2187.2	2107.2	2086.8	1560.8
32.5°	1676.6	1663.8	1678.3	1643.4	1593.2	1618.7	1851.9	2389.8	2410.2	2381.3	1750.6
35°	1882.5	1874.9	1865.5	1808.5	1748.9	1769.4	2026.4	2639.1	2790.6	2776.2	1942.1
37.5°	2067.2	2063.0	2055.3	2016.2	1947.2	1971.9	2224.7	2898.7	3161.7	3114.0	2212.8
40°	2261.3	2284.2	2259.6	2224.7	2161.7	2216.2	2457.9	3052.7	3474.0	3416.2	2419.6
42.5°	2524.2	2506.4	2517.4	2453.6	2419.6	2479.1	2691.9	3206.8	3716.6	3647.6	2639.1
45°	2804.2	2805.1	2775.3	2754.9	2666.4	2731.0	2835.7	3291.9	3909.8	3856.1	2805.1
47.5°	2983.8	2983.0	3015.3	3047.6	2956.6	2892.8	2933.6	3372.7	4009.3	3984.7	2865.5
50°	2955.7	2964.2	3005.9	3126.8	3174.5	3088.5	3025.5	3348.9	4054.4	4051.9	2917.4
52.5°	2571.1	2599.1	2668.9	2843.4	3083.4	3189.8	3121.7	3393.2	4076.6	4080.8	2994.9
55°	1957.4	1972.8	2105.5	2317.4	2583.0	2947.2	3083.4	3428.1	4093.6	4101.3	3088.5
56°	1697.9	1657.0	1848.5	1999.1	2316.6	2714.9	2986.4	3400.8	4083.4	4142.1	3135.3
57.5°	1281.7	1254.5	1409.4	1597.4	1903.0	2323.4	2685.1	3272.3	4014.4	4013.6	3068.1
60°	779.6	752.3	871.5	982.1	1153.2	1430.6	1814.5	2605.9	3394.0	3465.5	2484.2
62.5°	463.8	480.8	598.3	665.5	720.8	749.8	938.7	1548.9	2264.7	2315.7	1541.3
65°	308.9	314.9	403.4	514.0	538.7	428.9	382.1	627.2	982.1	950.6	635.7
67.5°	190.6	204.3	270.6	386.4	428.1	313.2	181.3	234.0	270.6	270.6	183.8
70°	115.7	122.6	180.4	263.0	293.6	201.7	131.9	131.9	130.2	127.7	109.8
72.5°	55.3	59.6	91.9	135.3	137.9	106.4	102.1	111.5	108.9	108.1	91.1
75°	23.8	25.5	32.3	42.6	48.5	45.1	62.1	80.0	82.6	80.0	65.5
77.5°	7.7	8.5	11.9	15.3	16.2	19.6	26.4	33.2	38.3	35.7	32.3
80°	0.9	1.7	3.4	7.7	11.9	15.3	19.6	22.1	24.7	24.7	23.0
82.5°	0.9	0.9	3.4	6.8	11.1	14.5	18.7	21.3	24.7	25.5	23.8
85°	0.0	0.9	2.6	6.0	9.4	9.4	8.5	8.5	6.0	6.0	6.0
87.5°	0.0	0.0	0.9	0.9	0.9	1.7	1.7	1.7	1.7	1.7	1.7
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°	768.5	768.5	768.5	768.5	768.5	768.5	768.5	768.5	768.5	768.5	768.5
2.5°	775.3	773.6	750.6	736.2	728.5	713.2	703.8	697.0	691.9	686.0	686.8
5°	785.5	779.6	741.3	714.9	683.4	666.4	651.9	640.0	632.3	630.6	627.2
7.5°	814.5	783.0	725.1	677.4	637.4	620.4	607.7	600.0	603.4	595.7	601.7
10°	836.6	789.8	705.5	636.6	596.6	583.8	577.0	583.0	591.5	588.1	583.8
12.5°	863.8	796.6	674.0	597.4	560.0	550.6	562.6	573.6	590.6	597.4	588.9
15°	894.5	804.3	634.0	552.3	528.5	536.2	556.6	576.2	593.2	601.7	606.8
17.5°	931.9	801.7	594.9	516.6	498.7	520.8	545.5	563.4	588.9	601.7	598.3
20°	966.8	793.2	551.5	480.8	481.7	502.1	522.6	551.5	565.1	582.1	576.2
22.5°	1000.0	777.9	506.4	456.2	456.2	487.7	497.9	516.6	528.5	537.0	536.2
25°	1046.8	748.9	468.9	432.3	442.6	463.0	471.5	477.4	472.3	479.1	480.0
27.5°	1080.0	719.1	438.3	411.1	429.8	445.1	442.6	439.1	427.2	417.9	423.8
30°	1115.7	684.3	411.9	396.6	406.8	420.4	410.2	400.0	381.3	366.0	366.8
32.5°	1166.8	668.1	388.9	379.6	393.2	394.9	383.8	368.5	349.8	335.3	334.5
35°	1262.1	657.9	369.4	368.5	371.1	371.9	360.8	342.1	334.5	322.6	326.8
37.5°	1357.4	652.8	355.7	352.3	351.5	352.3	339.6	321.7	336.2	335.3	337.0
40°	1479.1	675.7	336.2	331.9	332.8	332.8	316.6	311.5	337.0	339.6	340.4
42.5°	1602.5	704.7	323.4	309.8	313.2	313.2	304.7	298.7	316.6	299.6	297.0
45°	1709.8	747.2	309.8	287.7	296.2	300.4	297.9	287.7	276.6	247.7	247.7
47.5°	1744.7	784.7	293.6	266.4	273.2	291.9	284.3	263.0	243.4	219.6	217.9
50°	1805.9	825.5	280.8	241.7	256.2	279.1	271.5	250.2	228.1	211.1	211.9
52.5°	1868.9	872.3	257.0	212.8	230.6	268.9	268.9	245.1	211.1	199.1	197.4
55°	1963.4	870.6	214.5	174.5	206.0	253.6	257.9	219.6	188.9	179.6	179.6
56°	1977.0	831.5	193.2	163.4	194.9	249.4	250.2	212.8	180.4	170.2	170.2
57.5°	1874.9	750.6	169.4	149.8	181.3	241.7	242.6	206.8	173.6	159.1	157.4
60°	1442.5	508.1	141.3	133.6	164.3	217.9	222.1	188.1	152.3	141.3	140.4
62.5°	814.5	281.7	124.3	120.9	141.3	185.5	198.3	164.3	129.4	123.4	125.1
65°	371.9	154.9	104.7	97.9	114.0	143.0	160.0	135.3	106.4	99.6	99.6
67.5°	136.2	105.5	89.4	77.4	80.0	92.8	103.8	87.7	70.6	60.4	63.0
70°	97.0	88.5	78.3	67.2	62.1	60.4	59.6	49.4	34.9	27.2	28.9
72.5°	78.3	73.2	65.5	57.0	48.5	40.9	34.9	25.5	16.2	11.1	10.2
75°	56.2	53.6	47.7	40.9	34.0	28.9	23.8	16.2	8.5	4.3	4.3
77.5°	28.9	28.9	28.1	25.5	21.3	17.0	13.6	9.4	5.1	1.7	1.7
80°	22.1	23.8	24.7	22.1	19.6	15.3	11.1	6.8	3.4	0.9	0.9
82.5°	21.3	24.7	26.4	23.0	19.6	14.5	11.1	6.8	3.4	0.9	0.9
85°	5.1	5.1	7.7	8.5	11.1	11.9	9.4	6.0	2.6	0.9	0.9
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	0.9	0.9	0.9	0.9	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)