

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: P526839

Luminaire Tested: **GALN-SA1D-740-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526839  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
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-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4674 lumens  
Efficiency: N/A  
Efficacy: 71.9 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

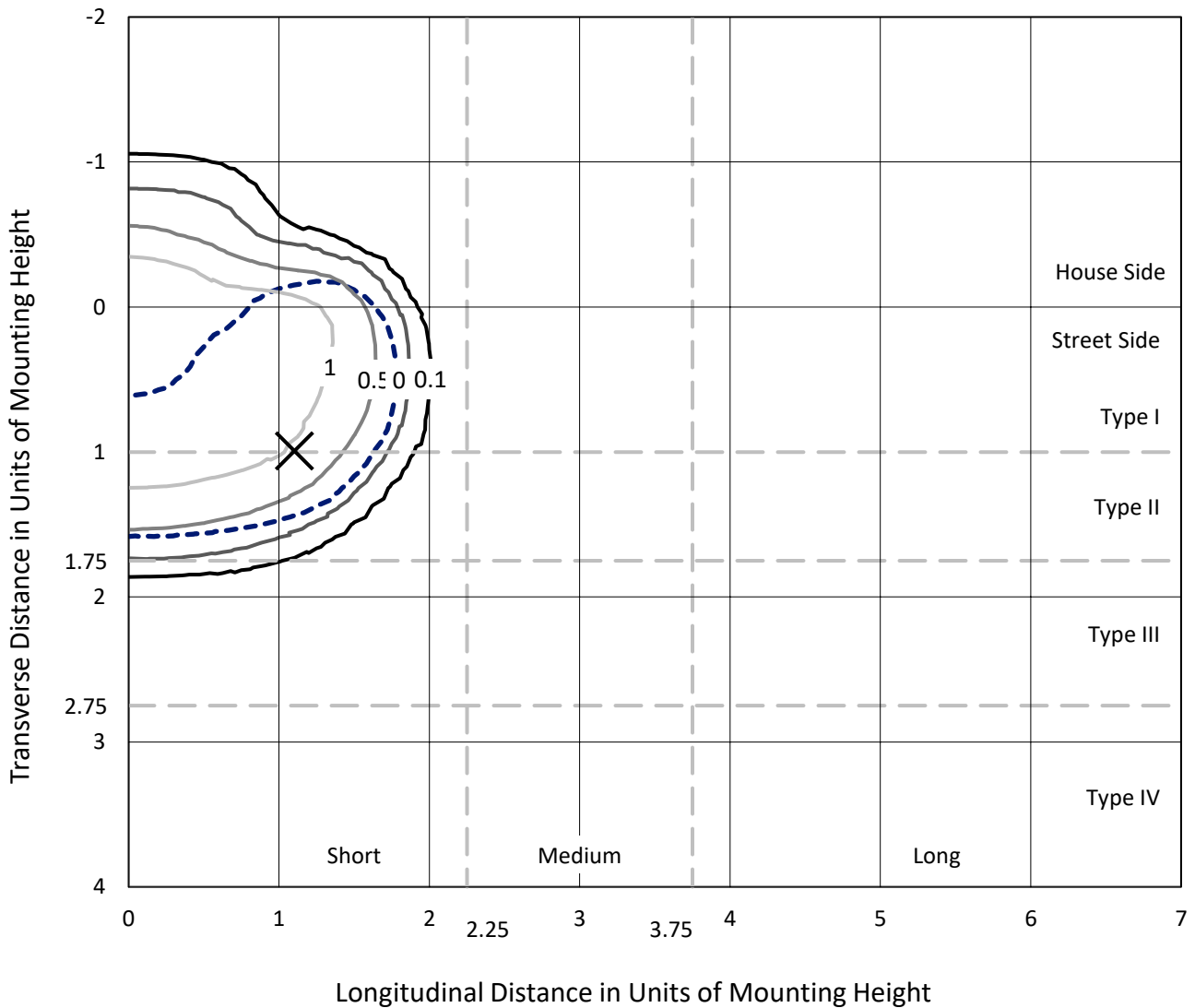
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

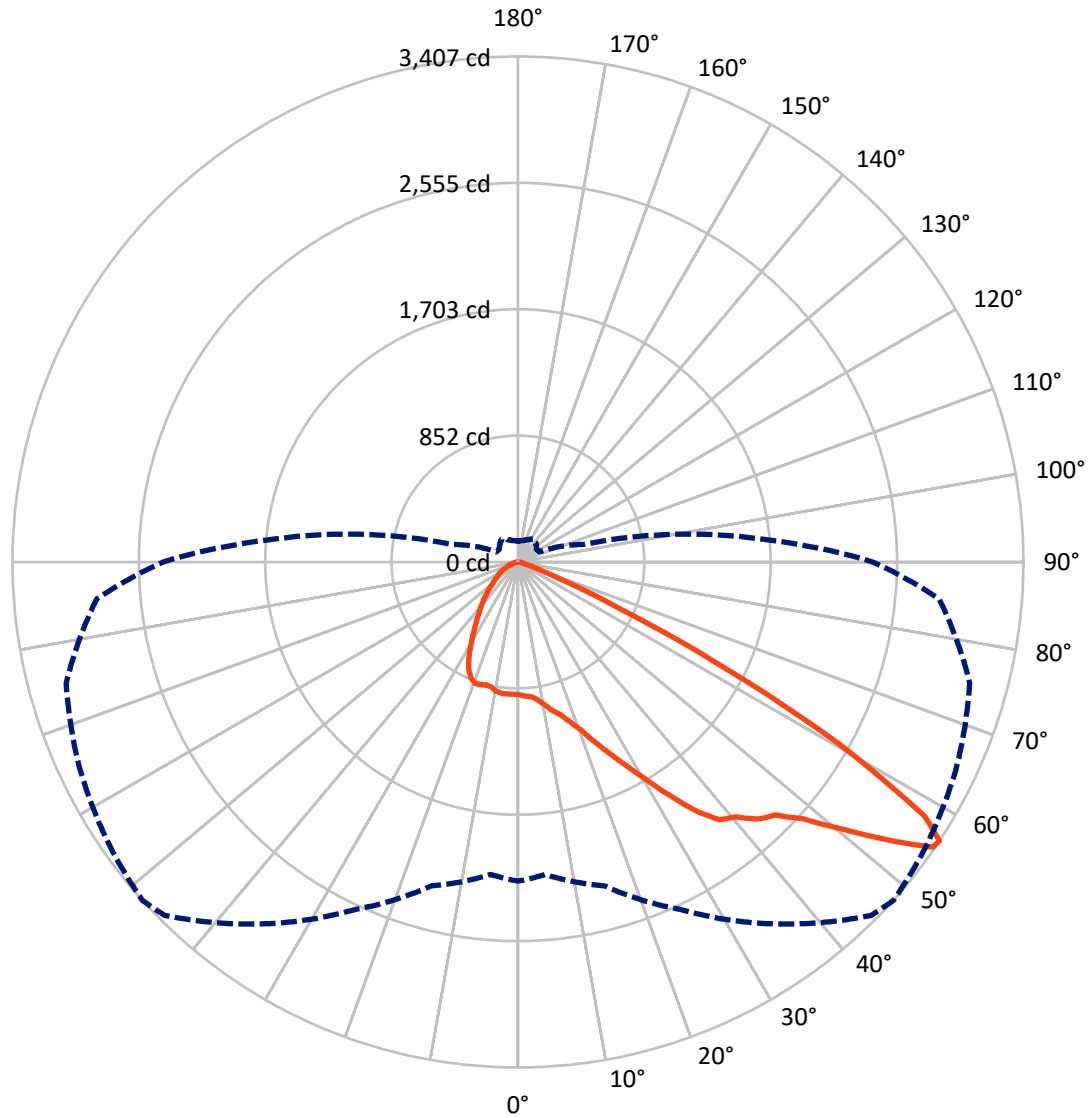
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1016.5	0.0	1016.5
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	3657.5	0.0	3657.5
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	4674.0	0.0	4674.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.0	1.9
10°-20°	277.9	5.9
20°-30°	504.1	10.8
30°-40°	791.8	16.9
40°-50°	1155.1	24.7
50°-60°	1391.7	29.8
60°-70°	407.5	8.7
70°-80°	51.7	1.1
80°-90°	7.3	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°	4674.0	100.0
0°-180°	4674.0	100.0

**Coefficient of Utilization**

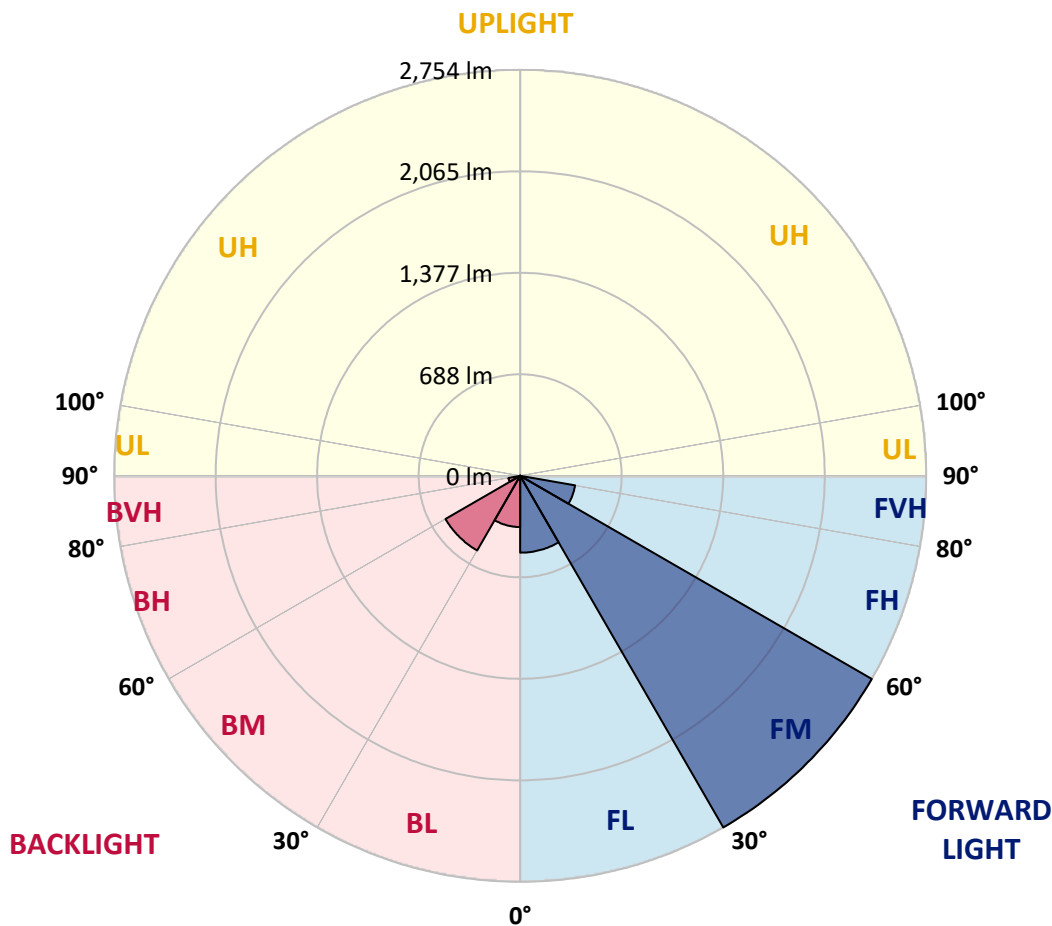


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	521.5	11.2			
FM (30°-60°)	2753.9	58.9			
FH (60°-80°)	378.4	8.1			G0/660
FVH (80°-90°)	3.7	0.1			G0/10
BL (0°-30°)	347.4	7.4	B1/500		
BM (30°-60°)	584.7	12.5	B1/1000		
BH (60°-80°)	80.8	1.7	B0/110		G0/110
BVH (80°-90°)	3.6	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°	48°	55°	65°	75°	85°
0°	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7
2.5°	908.9	904.7	904.7	897.8	905.5	902.1	904.7	896.1	904.7	891.9	902.1
5°	913.2	914.0	910.6	914.9	914.9	920.0	911.5	919.1	923.4	914.0	909.8
7.5°	935.3	937.0	936.1	932.7	939.5	938.7	937.8	931.9	933.6	930.2	925.1
10°	978.7	977.8	982.1	973.6	968.5	974.4	976.1	966.8	960.0	957.4	941.2
12.5°	1041.7	1031.5	1025.5	1017.0	1019.5	1011.0	1026.3	1010.2	1006.8	991.5	975.3
15°	1092.7	1091.0	1091.9	1078.3	1062.9	1066.3	1066.3	1057.8	1052.7	1034.0	1011.0
17.5°	1197.4	1161.7	1169.3	1152.3	1139.5	1138.7	1131.0	1132.7	1119.1	1080.0	1045.1
20°	1279.1	1263.8	1251.9	1222.9	1203.4	1209.3	1205.9	1197.4	1193.2	1142.1	1092.7
22.5°	1352.3	1357.4	1337.8	1330.2	1302.9	1305.5	1312.3	1304.6	1272.3	1219.5	1146.3
25°	1455.3	1449.3	1422.9	1413.6	1388.0	1397.4	1423.8	1417.8	1397.4	1302.1	1188.0
27.5°	1577.0	1556.5	1561.6	1519.1	1494.4	1520.8	1552.3	1582.1	1524.2	1399.1	1237.4
30°	1662.9	1641.6	1639.9	1638.2	1632.3	1662.9	1699.5	1726.8	1679.9	1496.1	1319.1
32.5°	1705.5	1710.6	1725.0	1719.9	1771.9	1834.8	1873.1	1912.3	1853.6	1654.4	1427.2
35°	1818.7	1786.3	1818.7	1822.1	1875.7	2009.3	2057.8	2151.4	2136.9	1878.2	1559.1
37.5°	1885.0	1882.5	1886.7	1919.1	1971.0	2136.1	2205.0	2277.4	2250.1	2012.7	1723.3
40°	1994.8	2001.6	2000.8	2025.5	2082.5	2231.4	2259.5	2318.2	2320.8	2199.1	1965.0
42.5°	2171.0	2143.8	2125.9	2151.4	2231.4	2314.0	2370.1	2358.2	2442.5	2425.5	2275.7
45°	2329.3	2345.5	2319.1	2361.6	2390.6	2434.8	2433.1	2458.6	2565.9	2646.7	2509.7
47.5°	2477.4	2487.6	2500.3	2529.3	2592.3	2599.1	2584.6	2573.5	2721.6	2805.0	2691.0
50°	2565.9	2575.2	2634.8	2686.7	2804.2	2819.5	2828.0	2799.9	2900.3	2909.7	2862.0
52.5°	2542.0	2552.3	2635.7	2806.7	2993.9	3134.4	3108.8	3061.2	3055.2	3091.8	3020.3
55°	2331.0	2321.6	2436.5	2702.9	3053.5	3390.5	3393.9	3343.7	3247.6	3222.9	2996.5
56°	2151.4	2114.8	2261.2	2582.9	2976.9	3368.4	3406.7	3353.1	3262.9	3152.2	2849.3
57.5°	1762.5	1797.4	1942.9	2209.3	2712.2	3209.3	3231.4	3218.6	3150.5	2965.0	2507.1
60°	971.9	1033.2	1161.7	1487.6	1931.0	2462.9	2480.8	2584.6	2597.4	2270.6	1725.0
62.5°	412.8	405.9	539.6	779.5	1099.5	1486.8	1519.9	1626.3	1645.9	1308.9	865.5
65°	167.7	177.0	244.2	392.3	581.3	677.4	724.2	759.1	823.8	540.4	319.1
67.5°	110.6	109.8	143.8	223.8	313.2	302.1	302.1	319.1	295.3	220.4	137.9
70°	79.1	81.7	103.0	154.9	194.9	144.7	138.7	132.8	150.6	145.5	111.5
72.5°	51.9	55.3	68.9	92.8	101.3	79.1	79.1	95.3	124.3	117.4	91.1
75°	34.0	34.9	42.6	53.6	50.2	40.8	45.1	63.8	90.2	86.8	64.7
77.5°	23.0	23.8	28.9	34.9	28.1	23.0	24.7	32.3	44.3	44.3	34.0
80°	8.5	9.4	11.9	11.1	12.8	16.2	17.9	22.1	26.4	26.4	23.0
82.5°	0.0	0.9	2.6	6.0	9.4	12.8	14.5	17.0	19.6	22.1	21.3
85°	0.0	0.9	2.6	4.3	6.8	7.7	8.5	6.0	5.1	5.1	4.3
87.5°	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	1.7	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°	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7
2.5°	892.7	891.9	891.9	889.3	894.4	891.9	893.6	892.7	881.7	890.2	884.2
5°	902.1	908.1	898.7	897.0	890.2	892.7	892.7	884.2	891.9	891.0	889.3
7.5°	925.9	915.7	905.5	895.3	893.6	891.0	881.7	878.3	884.2	877.4	887.6
10°	936.1	937.8	922.5	908.9	896.1	878.3	865.5	857.8	848.5	858.7	864.7
12.5°	982.9	965.9	939.5	918.3	874.9	857.0	844.2	840.8	857.0	860.4	854.4
15°	999.1	996.6	962.5	914.9	869.8	848.5	851.0	844.2	845.9	837.4	839.1
17.5°	1032.3	1003.4	963.4	903.8	868.9	863.8	848.5	821.2	805.9	799.1	805.1
20°	1068.9	1040.8	982.9	908.1	876.6	862.9	812.7	779.5	748.1	731.0	731.9
22.5°	1101.2	1066.3	974.4	909.8	883.4	827.2	766.8	701.3	662.1	635.7	636.6
25°	1140.4	1091.0	977.8	913.2	865.5	770.2	683.4	619.6	572.7	554.9	560.8
27.5°	1162.5	1106.3	996.6	920.8	818.7	689.3	595.7	536.2	508.9	500.4	499.6
30°	1228.9	1140.4	1019.5	905.5	740.4	602.5	515.7	479.1	452.8	445.1	446.8
32.5°	1327.6	1202.5	1049.3	865.5	660.4	525.1	463.8	436.6	411.9	397.4	395.7
35°	1410.2	1308.9	1080.8	803.4	567.6	465.5	427.2	393.2	355.7	339.6	335.3
37.5°	1567.6	1428.9	1074.0	709.8	479.1	421.3	388.1	346.4	314.0	291.9	289.4
40°	1777.0	1569.3	1040.8	595.7	413.6	382.1	346.4	306.4	266.4	247.7	245.9
42.5°	2031.4	1741.2	980.4	480.0	348.1	343.0	310.6	264.7	228.9	215.3	216.2
45°	2238.2	1888.4	919.1	385.5	299.6	304.7	276.6	233.2	208.5	197.4	197.4
47.5°	2422.0	1988.0	852.7	318.3	254.5	266.4	241.7	216.2	194.9	186.4	184.7
50°	2599.1	2089.3	786.4	257.9	217.0	228.9	226.4	206.0	188.9	178.7	179.6
52.5°	2709.7	2105.5	702.1	211.1	189.8	203.4	211.9	193.2	174.5	168.5	166.8
55°	2574.4	1897.0	544.7	173.6	160.8	178.7	194.9	173.6	159.1	148.9	148.1
56°	2392.3	1696.1	455.3	160.0	152.3	171.9	188.9	166.0	149.8	143.8	139.6
57.5°	2025.5	1388.0	336.2	142.1	141.3	160.0	179.6	158.3	139.6	134.5	134.5
60°	1262.9	781.3	203.4	119.1	122.5	142.1	161.7	141.3	124.3	124.3	126.8
62.5°	575.3	325.1	123.4	101.3	105.5	122.5	143.8	127.7	118.3	127.7	129.4
65°	195.7	140.4	89.4	80.8	83.4	101.3	123.4	129.4	128.5	134.5	137.9
67.5°	109.8	90.2	74.9	67.2	65.5	74.9	101.3	129.4	124.3	121.7	123.4
70°	92.8	76.6	66.4	59.6	57.0	60.4	78.3	97.9	87.7	85.1	83.4
72.5°	74.9	63.8	57.9	53.6	46.0	39.1	35.7	37.4	41.7	44.3	48.5
75°	52.8	48.5	48.5	43.4	33.2	24.7	19.6	16.2	11.1	7.7	8.5
77.5°	29.8	29.8	30.6	26.4	21.3	16.2	11.9	8.5	4.3	1.7	0.9
80°	20.4	22.1	23.8	21.3	17.9	14.5	10.2	6.0	2.6	0.0	0.0
82.5°	20.4	23.0	24.7	21.3	17.9	13.6	10.2	6.0	2.6	0.9	0.0
85°	4.3	5.1	6.0	6.8	10.2	10.2	7.7	5.1	2.6	0.9	0.0
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	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)