

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: P526995

Luminaire Tested: **GALN-SA2A-727-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526995
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-SA2A-727-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4593 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

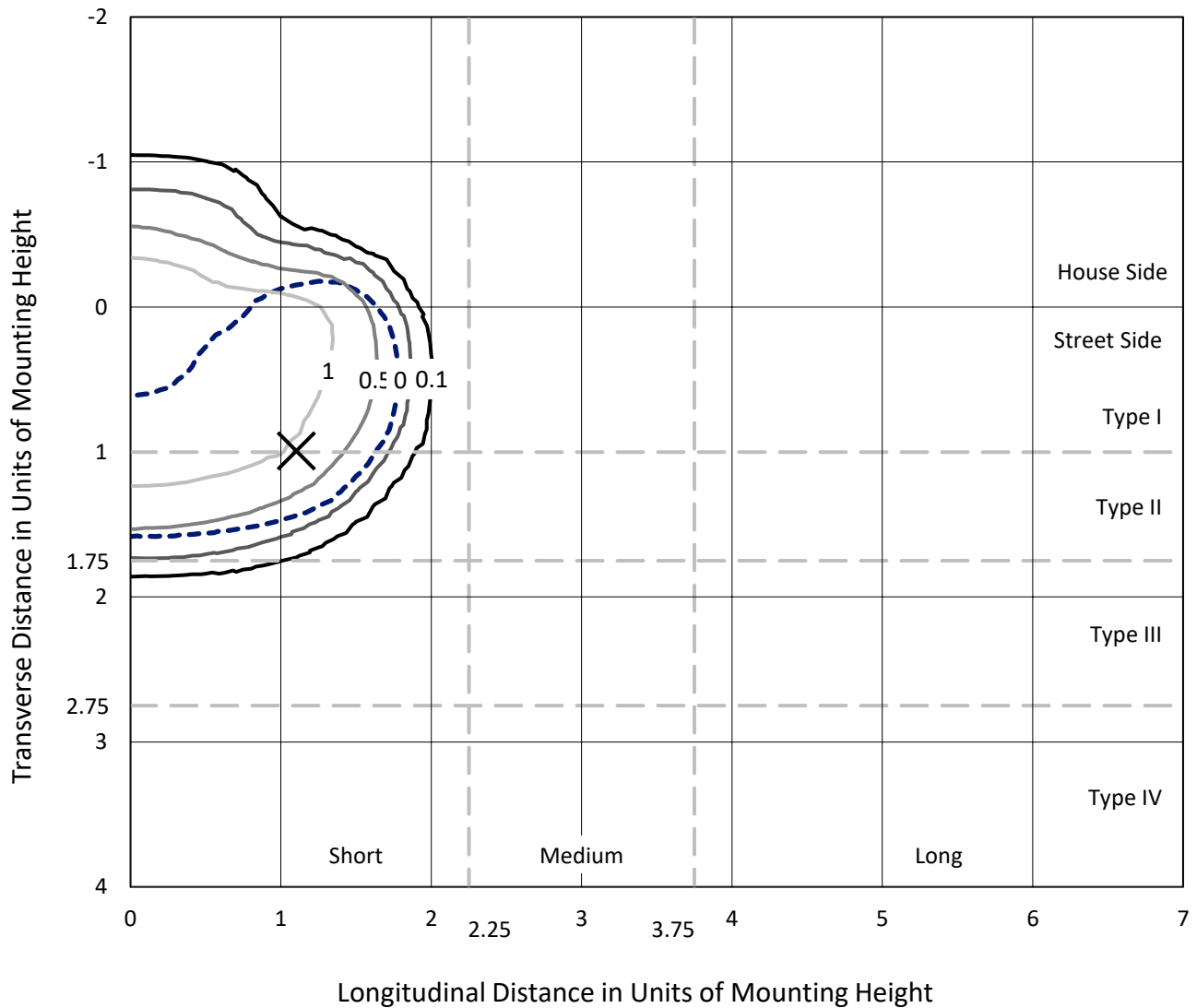
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

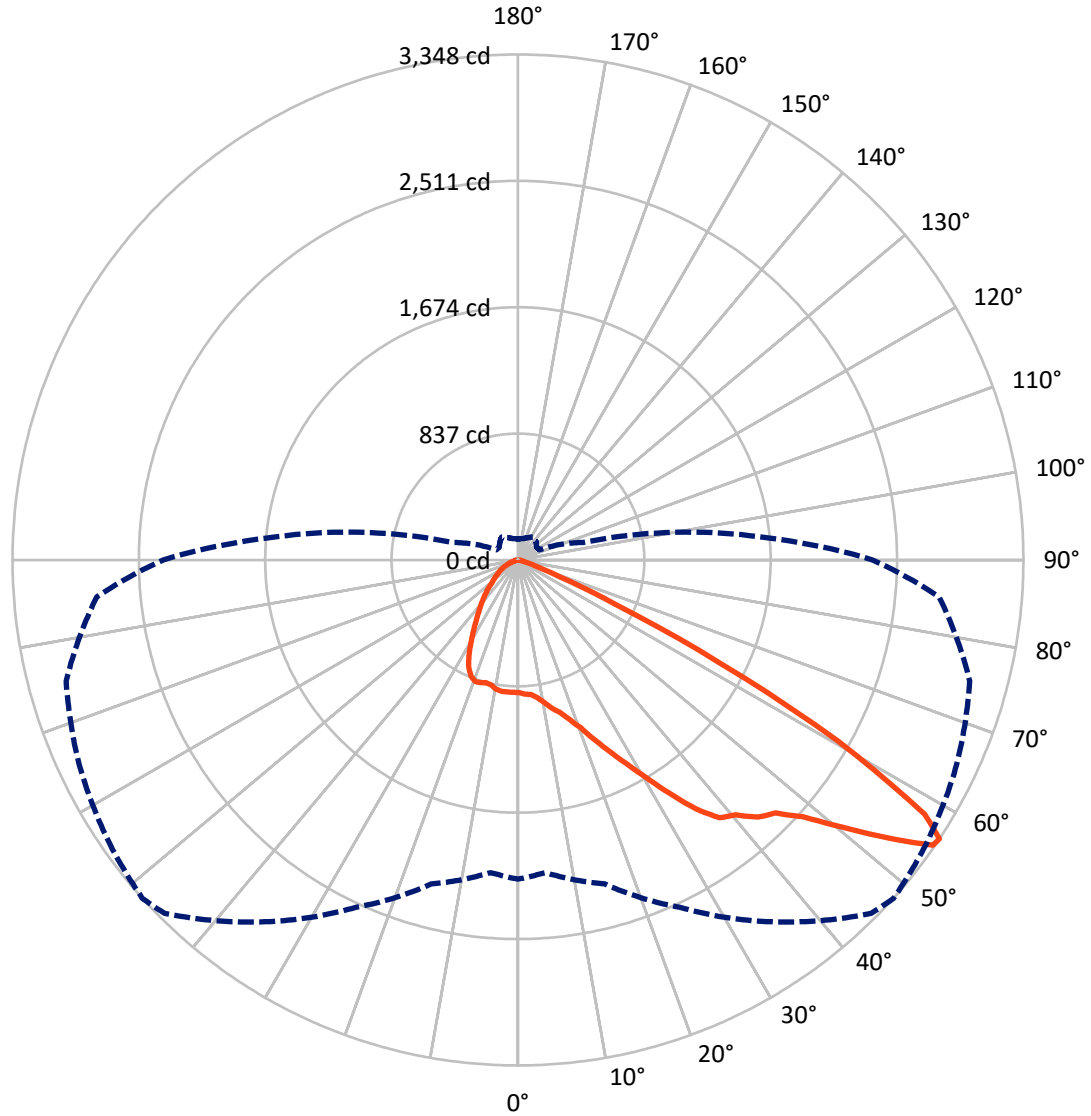
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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
House Side	Lumens	998.9	0.0	998.9
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	3594.1	0.0	3594.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	4593.0	0.0	4593.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	1.9
10°-20°	273.1	5.9
20°-30°	495.4	10.8
30°-40°	778.1	16.9
40°-50°	1135.1	24.7
50°-60°	1367.6	29.8
60°-70°	400.4	8.7
70°-80°	50.8	1.1
80°-90°	7.1	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°	4593.0	100.0
0°-180°	4593.0	100.0

Coefficient of Utilization

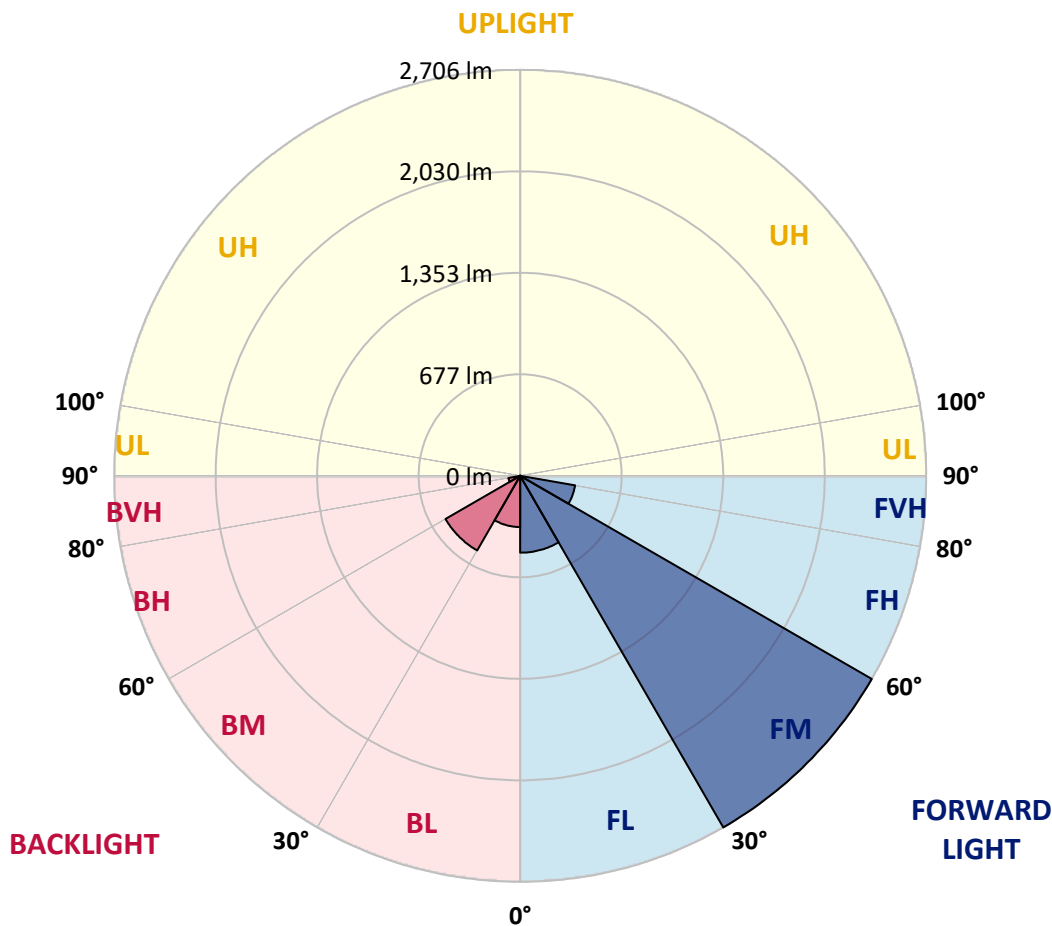


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	512.5	11.2			
FM (30°-60°)	2706.2	58.9			
FH (60°-80°)	371.8	8.1			G0/660
FVH (80°-90°)	3.6	0.1			G0/10
BL (0°-30°)	341.4	7.4	B1/500		
BM (30°-60°)	574.6	12.5	B1/1000		
BH (60°-80°)	79.4	1.7	B0/110		G0/110
BVH (80°-90°)	3.5	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°	877.3	877.3	877.3	877.3	877.3	877.3	877.3	877.3	877.3	877.3	877.3
2.5°	893.2	889.0	889.0	882.3	889.8	886.5	889.0	880.6	889.0	876.4	886.5
5°	897.3	898.2	894.8	899.0	899.0	904.0	895.7	903.2	907.4	898.2	894.0
7.5°	919.1	920.8	919.9	916.6	923.3	922.4	921.6	915.7	917.4	914.1	909.0
10°	961.7	960.9	965.1	956.7	951.7	957.5	959.2	950.0	943.3	940.8	924.9
12.5°	1023.6	1013.6	1007.7	999.4	1001.9	993.5	1008.6	992.7	989.3	974.3	958.4
15°	1073.8	1072.1	1073.0	1059.6	1044.5	1047.9	1047.9	1039.5	1034.5	1016.1	993.5
17.5°	1176.7	1141.5	1149.1	1132.3	1119.8	1119.0	1111.4	1113.1	1099.7	1061.2	1027.0
20°	1256.9	1241.9	1230.2	1201.7	1182.5	1188.4	1185.0	1176.7	1172.5	1122.3	1073.8
22.5°	1328.9	1333.9	1314.6	1307.1	1280.4	1282.9	1289.6	1282.0	1250.2	1198.4	1126.5
25°	1430.1	1424.2	1398.3	1389.1	1364.0	1373.2	1399.1	1393.3	1373.2	1279.5	1167.5
27.5°	1549.6	1529.6	1534.6	1492.8	1468.5	1494.4	1525.4	1554.7	1497.8	1374.9	1216.0
30°	1634.1	1613.2	1611.5	1609.9	1604.0	1634.1	1670.1	1696.8	1650.8	1470.2	1296.2
32.5°	1675.9	1680.9	1695.2	1690.1	1741.1	1803.0	1840.7	1879.1	1821.4	1625.7	1402.5
35°	1787.1	1755.4	1787.1	1790.5	1843.2	1974.5	2022.1	2114.1	2099.9	1845.7	1532.1
37.5°	1852.4	1849.9	1854.0	1885.8	1936.8	2099.1	2166.8	2237.9	2211.1	1977.8	1693.5
40°	1960.3	1966.9	1966.1	1990.4	2046.4	2192.7	2220.3	2278.0	2280.6	2161.0	1931.0
42.5°	2133.4	2106.6	2089.0	2114.1	2192.7	2273.9	2329.1	2317.4	2400.1	2383.4	2236.2
45°	2288.9	2304.8	2278.9	2320.7	2349.1	2392.6	2390.9	2416.0	2521.4	2600.9	2466.2
47.5°	2434.4	2444.5	2457.0	2485.4	2547.3	2554.0	2539.8	2528.9	2674.4	2756.4	2644.3
50°	2521.4	2530.6	2589.1	2640.2	2755.6	2770.6	2779.0	2751.4	2850.1	2859.3	2812.4
52.5°	2498.0	2508.0	2590.0	2758.1	2942.1	3080.0	3055.0	3008.1	3002.3	3038.2	2968.0
55°	2290.6	2281.4	2394.3	2656.0	3000.6	3331.8	3335.1	3285.8	3191.3	3167.0	2944.6
56°	2114.1	2078.2	2222.0	2538.1	2925.3	3310.0	3347.7	3295.0	3206.3	3097.6	2799.9
57.5°	1732.0	1766.2	1909.2	2171.0	2665.2	3153.6	3175.4	3162.8	3095.9	2913.6	2463.7
60°	955.0	1015.3	1141.5	1461.8	1897.5	2420.2	2437.8	2539.8	2552.3	2231.2	1695.2
62.5°	405.6	398.9	530.2	766.0	1080.5	1461.0	1493.6	1598.1	1617.4	1286.2	850.5
65°	164.7	173.9	240.0	385.5	571.2	665.7	711.7	746.0	809.5	531.0	313.6
67.5°	108.7	107.9	141.3	219.9	307.8	296.9	296.9	313.6	290.2	216.6	135.5
70°	77.8	80.3	101.2	152.2	191.5	142.2	136.3	130.5	148.0	143.0	109.6
72.5°	51.0	54.4	67.7	91.2	99.5	77.8	77.8	93.7	122.1	115.4	89.5
75°	33.5	34.3	41.8	52.7	49.3	40.1	44.3	62.7	88.6	85.3	63.6
77.5°	22.6	23.4	28.4	34.3	27.6	22.6	24.3	31.8	43.5	43.5	33.5
80°	8.4	9.2	11.7	10.9	12.5	15.9	17.6	21.7	25.9	25.9	22.6
82.5°	0.0	0.8	2.5	5.9	9.2	12.5	14.2	16.7	19.2	21.7	20.9
85°	0.0	0.8	2.5	4.2	6.7	7.5	8.4	5.9	5.0	5.0	4.2
87.5°	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	1.7	0.8	0.8
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°	877.3	877.3	877.3	877.3	877.3	877.3	877.3	877.3	877.3	877.3	877.3
2.5°	877.3	876.4	876.4	873.9	878.9	876.4	878.1	877.3	866.4	874.8	868.9
5°	886.5	892.3	883.1	881.4	874.8	877.3	877.3	868.9	876.4	875.6	873.9
7.5°	909.9	899.8	889.8	879.8	878.1	875.6	866.4	863.0	868.9	862.2	872.2
10°	919.9	921.6	906.5	893.2	880.6	863.0	850.5	843.0	833.8	843.8	849.7
12.5°	965.9	949.2	923.3	902.4	859.7	842.1	829.6	826.3	842.1	845.5	839.6
15°	981.8	979.3	945.8	899.0	854.7	833.8	836.3	829.6	831.3	822.9	824.6
17.5°	1014.4	986.0	946.7	888.1	853.8	848.8	833.8	807.0	792.0	785.3	791.1
20°	1050.4	1022.8	965.9	892.3	861.4	848.0	798.7	766.0	735.1	718.4	719.2
22.5°	1082.2	1047.9	957.5	894.0	868.1	812.9	753.5	689.1	650.6	624.7	625.5
25°	1120.6	1072.1	960.9	897.3	850.5	756.8	671.5	608.8	562.8	545.3	551.1
27.5°	1142.4	1087.2	979.3	904.9	804.5	677.4	585.4	526.9	500.1	491.7	490.9
30°	1207.6	1120.6	1001.9	889.8	727.6	592.1	506.8	470.8	444.9	437.4	439.1
32.5°	1304.6	1181.7	1031.1	850.5	649.0	516.0	455.8	429.0	404.8	390.5	388.9
35°	1385.7	1286.2	1062.1	789.5	557.8	457.4	419.8	386.4	349.6	333.7	329.5
37.5°	1540.4	1404.1	1055.4	697.5	470.8	414.0	381.3	340.4	308.6	286.8	284.3
40°	1746.2	1542.1	1022.8	585.4	406.4	375.5	340.4	301.1	261.8	243.4	241.7
42.5°	1996.2	1711.0	963.4	471.7	342.0	337.0	305.2	260.1	225.0	211.6	212.4
45°	2199.4	1855.7	903.2	378.8	294.4	299.4	271.8	229.1	204.9	194.0	194.0
47.5°	2380.1	1953.6	838.0	312.8	250.0	261.8	237.5	212.4	191.5	183.1	181.5
50°	2554.0	2053.1	772.7	253.4	213.3	225.0	222.5	202.4	185.7	175.6	176.5
52.5°	2662.7	2069.0	689.9	207.4	186.5	199.9	208.2	189.8	171.4	165.6	163.9
55°	2529.8	1864.1	535.2	170.6	158.1	175.6	191.5	170.6	156.4	146.4	145.5
56°	2350.8	1666.7	447.4	157.2	149.7	168.9	185.7	163.1	147.2	141.3	137.2
57.5°	1990.4	1364.0	330.3	139.7	138.8	157.2	176.5	155.5	137.2	132.1	132.1
60°	1241.0	767.7	199.9	117.1	120.4	139.7	158.9	138.8	122.1	122.1	124.6
62.5°	565.3	319.5	121.3	99.5	103.7	120.4	141.3	125.4	116.2	125.4	127.1
65°	192.3	138.0	87.8	79.4	82.0	99.5	121.3	127.1	126.3	132.1	135.5
67.5°	107.9	88.6	73.6	66.1	64.4	73.6	99.5	127.1	122.1	119.6	121.3
70°	91.2	75.3	65.2	58.5	56.0	59.4	76.9	96.2	86.1	83.6	82.0
72.5°	73.6	62.7	56.9	52.7	45.2	38.5	35.1	36.8	41.0	43.5	47.7
75°	51.8	47.7	47.7	42.7	32.6	24.3	19.2	15.9	10.9	7.5	8.4
77.5°	29.3	29.3	30.1	25.9	20.9	15.9	11.7	8.4	4.2	1.7	0.8
80°	20.1	21.7	23.4	20.9	17.6	14.2	10.0	5.9	2.5	0.0	0.0
82.5°	20.1	22.6	24.3	20.9	17.6	13.4	10.0	5.9	2.5	0.8	0.0
85°	4.2	5.0	5.9	6.7	10.0	10.0	7.5	5.0	2.5	0.8	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	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)