

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: P529489

Luminaire Tested: **GALN-SA4C-827-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-827-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13522 lumens
Efficiency: N/A
Efficacy: 63.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

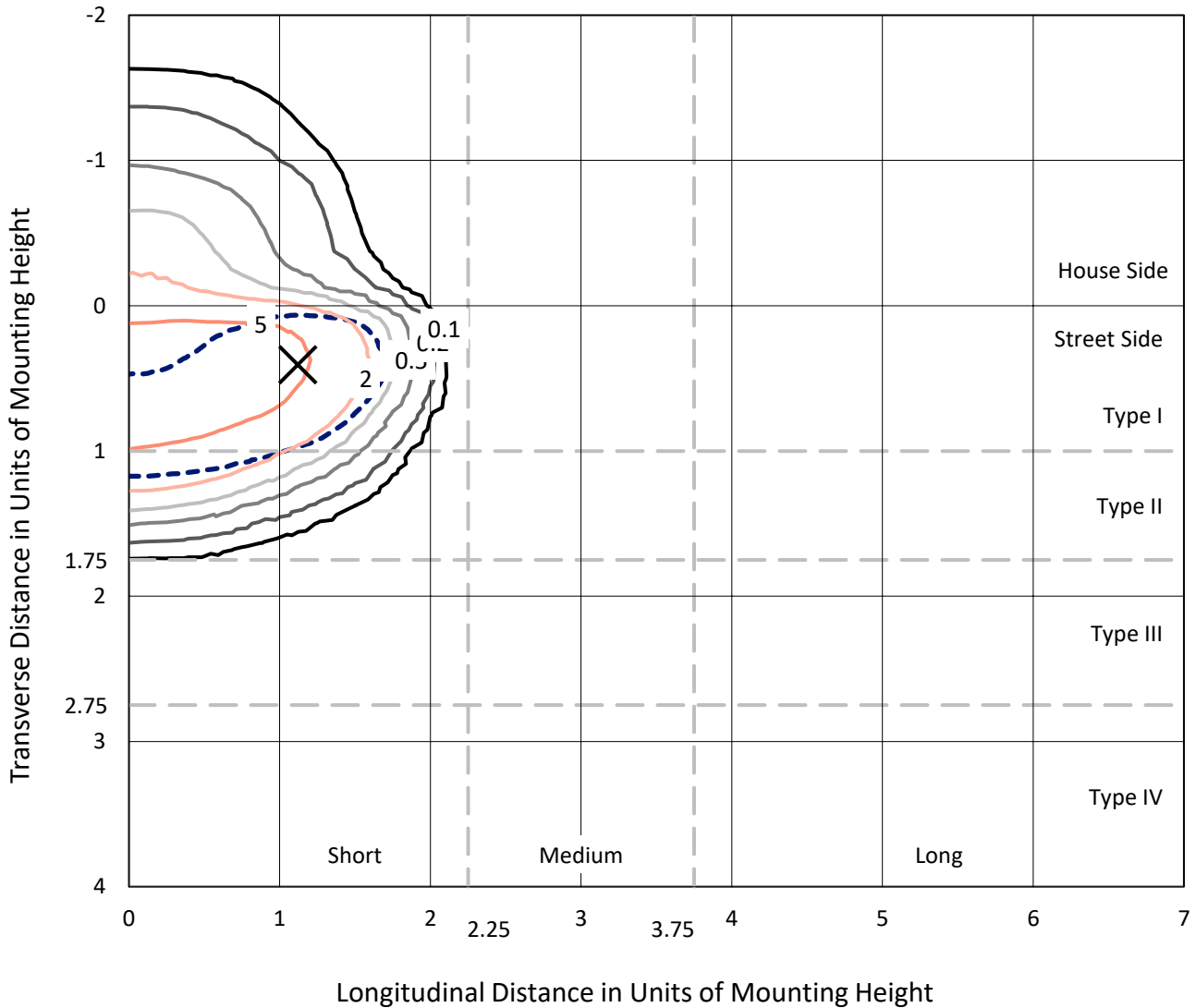
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

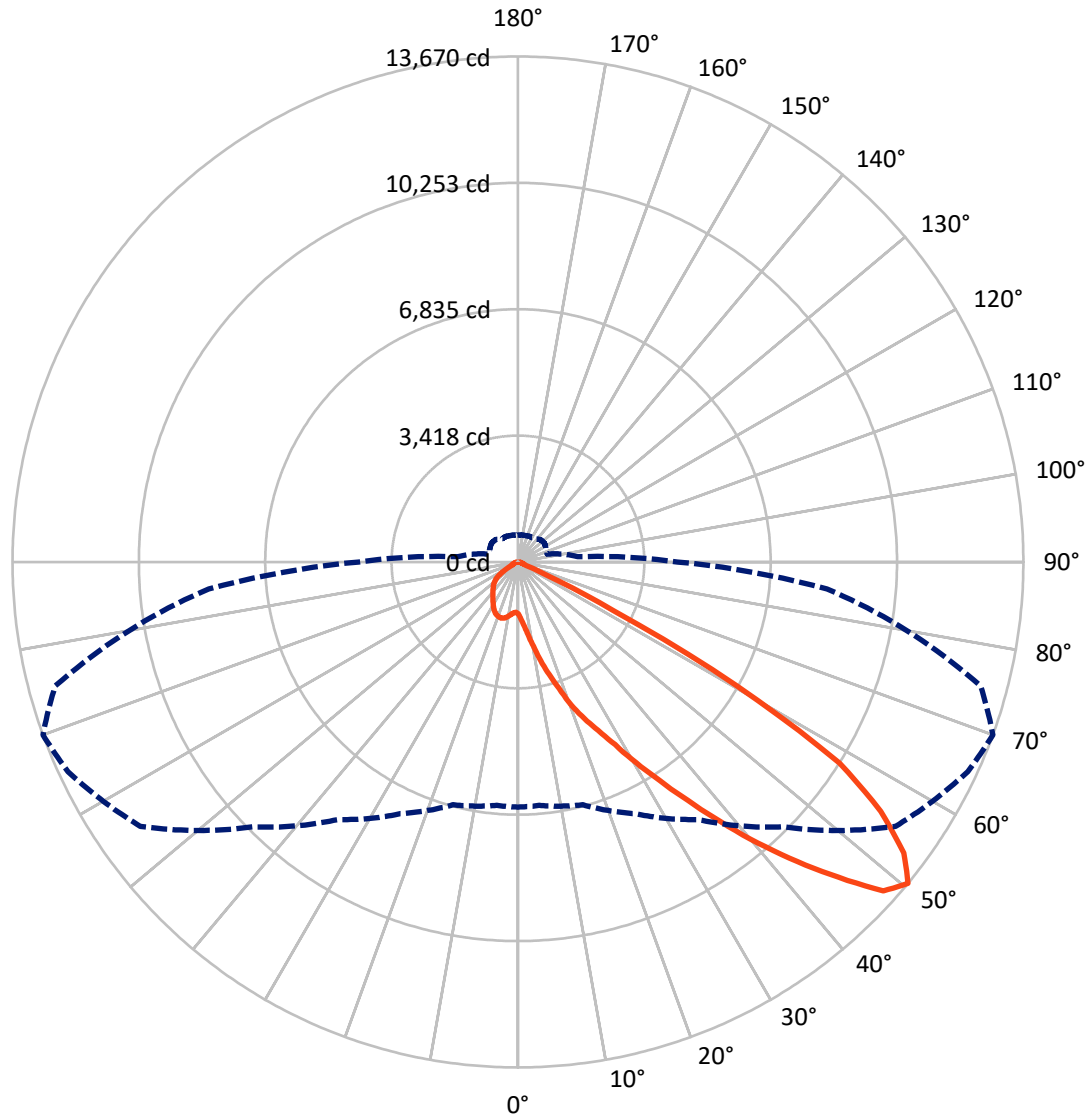
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1888.4	0.0	1888.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	11633.5	0.0	11633.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	13522.0	0.0	13522.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.1	1.3
10°-20°	787.8	5.8
20°-30°	1652.7	12.2
30°-40°	2848.8	21.1
40°-50°	4163.5	30.8
50°-60°	3242.6	24.0
60°-70°	549.4	4.1
70°-80°	75.5	0.6
80°-90°	19.5	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°	13522.0	100.0
0°-180°	13522.0	100.0

Coefficient of Utilization



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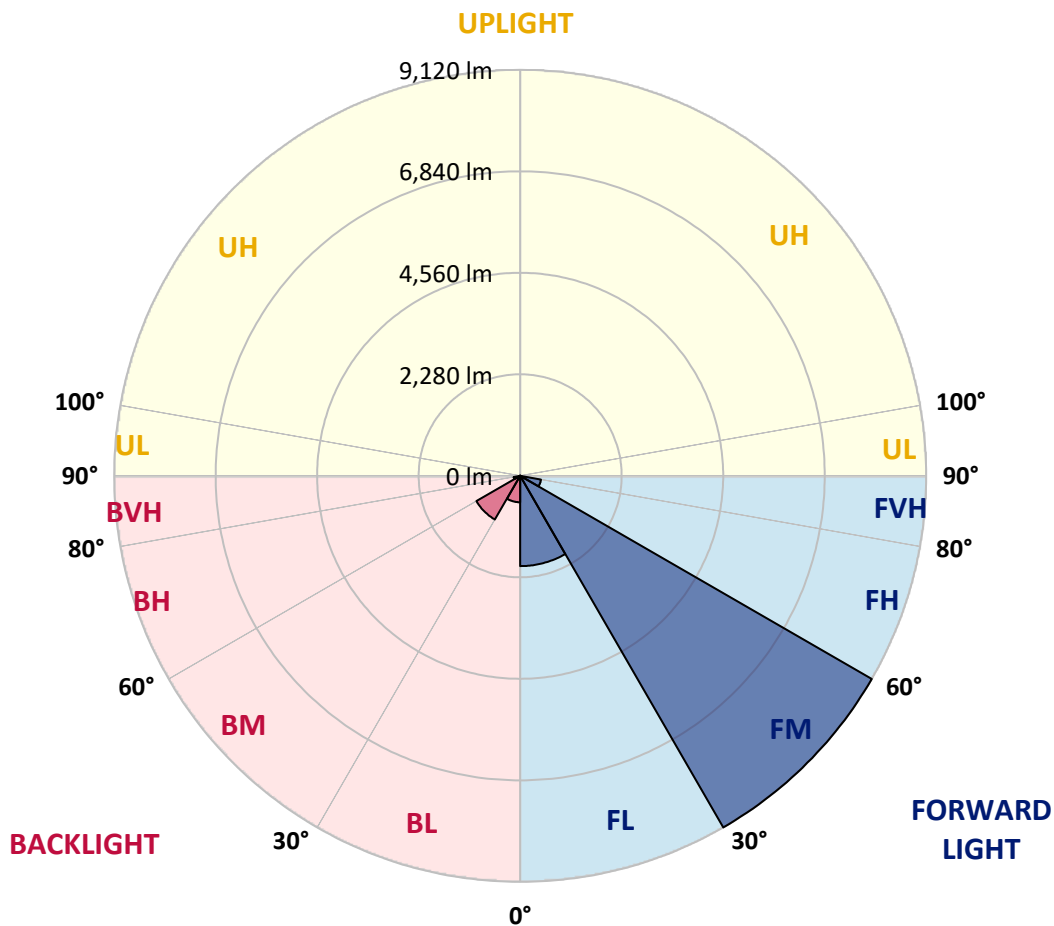
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2028.5	15.0			
FM (30°-60°)	9120.4	67.4			
FH (60°-80°)	475.7	3.5			G0/660
FVH (80°-90°)	9.0	0.1			G0/10
BL (0°-30°)	594.2	4.4	B2/1000		
BM (30°-60°)	1134.5	8.4	B2/2500		
BH (60°-80°)	149.2	1.1	B1/500		G1/500
BVH (80°-90°)	10.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1400.6	1400.6	1400.6	1400.6	1400.6	1400.6	1400.6	1400.6	1400.6	1400.6	1400.6
2.5°	1834.1	1820.8	1791.9	1738.5	1716.3	1662.9	1631.8	1571.8	1534.0	1491.8	1445.1
5°	2583.4	2514.4	2472.2	2412.2	2236.5	2127.6	1947.5	1794.1	1723.0	1645.2	1538.5
7.5°	3357.0	3312.6	3254.8	3125.8	3005.8	2779.0	2470.0	2132.0	1987.5	1854.1	1642.9
10°	3997.3	3872.8	3866.1	3770.5	3639.4	3368.1	2996.9	2576.7	2318.8	2123.2	1791.9
12.5°	4444.2	4330.8	4381.9	4370.8	4248.5	3999.5	3570.5	3014.7	2745.6	2441.1	1945.3
15°	4851.0	4804.3	4788.8	4775.4	4726.5	4542.0	4157.4	3548.2	3159.2	2792.3	2118.7
17.5°	5249.0	5128.9	5186.7	5197.8	5193.4	5026.6	4666.5	4055.1	3597.1	3163.6	2301.0
20°	5602.5	5613.6	5535.8	5520.2	5506.9	5500.2	5148.9	4557.6	4135.1	3552.7	2538.9
22.5°	6056.0	5978.2	6047.1	6002.6	5915.9	5862.6	5593.6	5002.2	4602.0	4021.8	2781.2
25°	6591.8	6654.0	6491.7	6473.9	6378.3	6193.8	5951.5	5500.2	5051.1	4457.5	3043.6
27.5°	7252.1	7143.1	7100.9	7003.1	6829.7	6751.8	6467.3	6013.7	5593.6	4915.5	3297.0
30°	7819.0	7790.1	7578.9	7463.3	7312.1	7309.9	6911.9	6709.6	6300.5	5633.6	3646.0
32.5°	8281.4	8154.7	8076.9	7996.8	7874.6	7907.9	7572.2	7465.5	7054.2	6300.5	4057.3
35°	8590.4	8499.3	8452.6	8330.3	8294.7	8443.7	8303.6	8259.2	7921.2	7238.7	4539.8
37.5°	8688.2	8717.1	8708.3	8554.9	8630.4	9032.8	9212.9	9097.3	8919.5	8228.0	5062.2
40°	8775.0	8795.0	8750.5	8930.6	9146.2	9604.2	10255.6	10064.4	9997.7	9230.7	5789.2
42.5°	8823.9	8808.3	8808.3	9119.5	9446.4	10366.8	11262.7	11136.0	11084.9	10297.8	6629.6
45°	8612.7	8461.5	8623.8	9046.2	9704.2	10742.5	12067.5	12243.1	12169.8	11567.3	7612.2
47.5°	7823.4	7916.8	8007.9	8572.6	9390.8	10626.9	12561.1	13159.1	13294.7	12634.4	8256.9
50°	6629.6	6609.6	6798.5	7510.0	8503.7	10128.9	12465.5	13423.7	13670.4	12954.6	8392.6
52.5°	4822.1	4968.8	5173.4	5880.4	7058.6	8839.4	11231.6	12741.1	13070.2	12561.1	8303.6
55°	2807.9	2645.6	3105.8	3703.8	4815.4	6667.4	9495.3	11293.8	11903.0	11845.2	7854.5
57.5°	1124.9	1089.4	1247.2	1680.7	2512.2	4132.9	6905.2	9279.6	10255.6	10849.2	6903.0
60°	493.5	482.4	566.9	684.7	1027.1	1905.3	3777.2	5771.4	6789.6	7581.1	4751.0
62.5°	355.7	351.3	393.5	435.7	542.5	829.3	1587.4	2325.5	2899.0	3501.5	2127.6
65°	286.8	297.9	326.8	349.0	400.2	460.2	560.2	646.9	793.7	822.6	469.1
67.5°	233.4	242.3	269.0	293.5	302.4	249.0	257.9	226.8	226.8	202.3	162.3
70°	171.2	173.4	204.5	233.4	186.7	100.0	175.6	175.6	157.8	151.2	137.8
72.5°	126.7	128.9	153.4	144.5	73.4	62.2	128.9	142.3	128.9	122.3	111.2
75°	93.4	95.6	80.0	33.3	31.1	40.0	75.6	97.8	93.4	91.2	84.5
77.5°	17.8	13.3	11.1	15.6	22.2	33.3	48.9	60.0	62.2	66.7	62.2
80°	2.2	2.2	6.7	13.3	24.5	35.6	51.1	57.8	60.0	62.2	57.8
82.5°	0.0	2.2	6.7	13.3	24.5	33.3	44.5	51.1	55.6	57.8	55.6
85°	0.0	2.2	4.4	11.1	20.0	24.5	22.2	15.6	13.3	15.6	11.1
87.5°	0.0	0.0	2.2	2.2	4.4	4.4	4.4	4.4	4.4	4.4	4.4
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°	1400.6	1400.6	1400.6	1400.6	1400.6	1400.6	1400.6	1400.6	1400.6	1400.6	1400.6
2.5°	1418.4	1409.5	1378.4	1345.0	1316.1	1329.5	1316.1	1305.0	1309.5	1305.0	1300.6
5°	1496.2	1456.2	1389.5	1360.6	1336.1	1333.9	1327.2	1325.0	1327.2	1327.2	1307.2
7.5°	1569.6	1505.1	1434.0	1402.8	1373.9	1376.2	1360.6	1360.6	1358.4	1347.3	1342.8
10°	1680.7	1594.0	1502.9	1447.3	1411.7	1405.1	1389.5	1373.9	1373.9	1373.9	1351.7
12.5°	1803.0	1694.1	1569.6	1505.1	1462.9	1429.5	1405.1	1400.6	1376.2	1371.7	1360.6
15°	1909.7	1771.9	1614.0	1525.1	1471.8	1427.3	1389.5	1365.0	1353.9	1347.3	1338.4
17.5°	2014.2	1838.6	1638.5	1525.1	1467.3	1416.2	1376.2	1353.9	1327.2	1331.7	1313.9
20°	2154.3	1909.7	1645.2	1496.2	1425.1	1376.2	1322.8	1311.7	1296.1	1282.8	1287.2
22.5°	2289.9	1960.9	1625.2	1460.6	1358.4	1300.6	1273.9	1260.6	1253.9	1242.8	1227.2
25°	2412.2	2016.4	1594.0	1396.2	1287.2	1245.0	1220.5	1218.3	1202.7	1202.7	1173.8
27.5°	2536.7	2036.4	1540.7	1320.6	1225.0	1200.5	1189.4	1185.0	1178.3	1162.7	1142.7
30°	2679.0	2043.1	1462.9	1242.8	1169.4	1142.7	1158.3	1169.4	1140.5	1111.6	1120.5
32.5°	2796.8	2027.6	1369.5	1169.4	1129.4	1116.0	1147.2	1158.3	1124.9	1093.8	1078.2
35°	2939.1	1989.8	1278.3	1111.6	1089.4	1116.0	1142.7	1142.7	1076.0	1038.2	1029.3
37.5°	3154.7	1947.5	1193.9	1062.7	1047.1	1102.7	1138.3	1113.8	1009.3	962.6	951.5
40°	3385.9	1920.8	1111.6	1013.8	1024.9	1080.5	1100.5	1024.9	918.2	889.3	880.4
42.5°	3721.6	1867.5	1038.2	971.5	1004.9	1049.3	1049.3	913.7	873.7	858.2	855.9
45°	4139.6	1829.7	973.8	936.0	976.0	987.1	951.5	855.9	827.0	822.6	824.8
47.5°	4344.1	1756.3	907.1	893.7	922.6	924.8	831.5	809.2	784.8	778.1	773.7
50°	4313.0	1625.2	820.4	838.1	878.2	855.9	758.1	762.6	740.3	738.1	727.0
52.5°	4095.1	1418.4	733.7	775.9	820.4	755.9	698.1	693.6	693.6	664.7	653.6
55°	3630.5	1142.7	629.2	682.5	735.9	635.8	620.3	615.8	604.7	578.0	571.4
57.5°	2874.6	838.1	473.5	531.3	624.7	540.2	538.0	518.0	489.1	469.1	469.1
60°	1709.6	482.4	297.9	324.6	413.5	438.0	486.9	478.0	429.1	398.0	389.1
62.5°	780.3	249.0	189.0	193.4	222.3	284.6	382.4	442.4	373.5	320.1	315.7
65°	262.3	184.5	155.6	149.0	153.4	171.2	229.0	313.5	297.9	246.8	237.9
67.5°	160.1	164.5	146.7	135.6	135.6	133.4	131.2	142.3	175.6	171.2	173.4
70°	137.8	151.2	135.6	122.3	117.8	111.2	93.4	77.8	66.7	77.8	82.3
72.5°	111.2	120.1	115.6	104.5	93.4	84.5	66.7	51.1	37.8	33.3	33.3
75°	82.3	88.9	93.4	80.0	71.1	60.0	48.9	33.3	20.0	13.3	13.3
77.5°	60.0	66.7	68.9	62.2	53.4	42.2	31.1	22.2	11.1	4.4	4.4
80°	51.1	60.0	66.7	62.2	55.6	40.0	28.9	15.6	8.9	2.2	2.2
82.5°	48.9	60.0	66.7	60.0	53.4	37.8	28.9	17.8	6.7	2.2	2.2
85°	11.1	15.6	20.0	24.5	28.9	28.9	22.2	13.3	6.7	2.2	2.2
87.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	2.2	2.2	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)