

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: P651689

Luminaire Tested: **GALN-SA1A-840-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-840-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH
WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3264.8 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

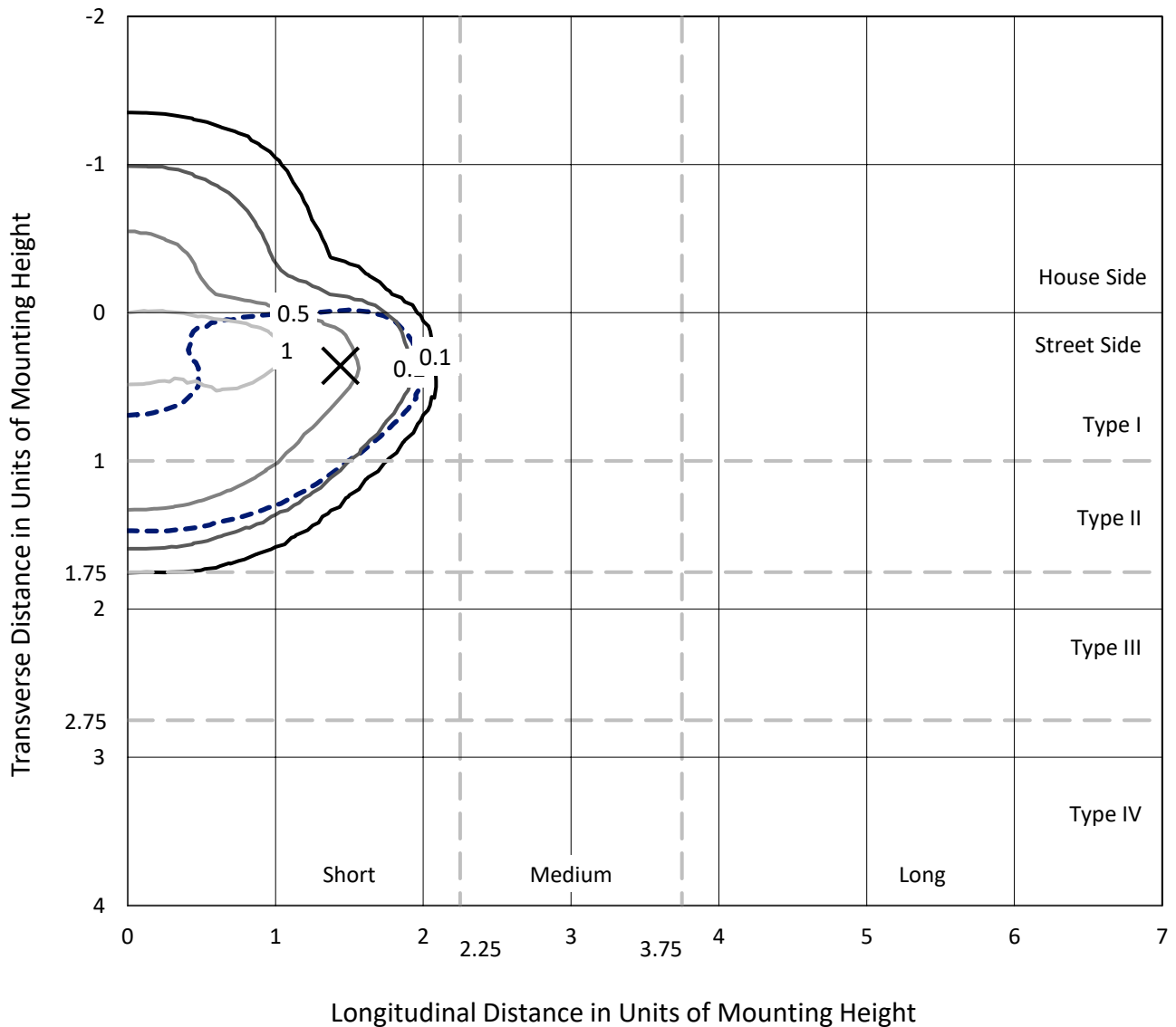
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

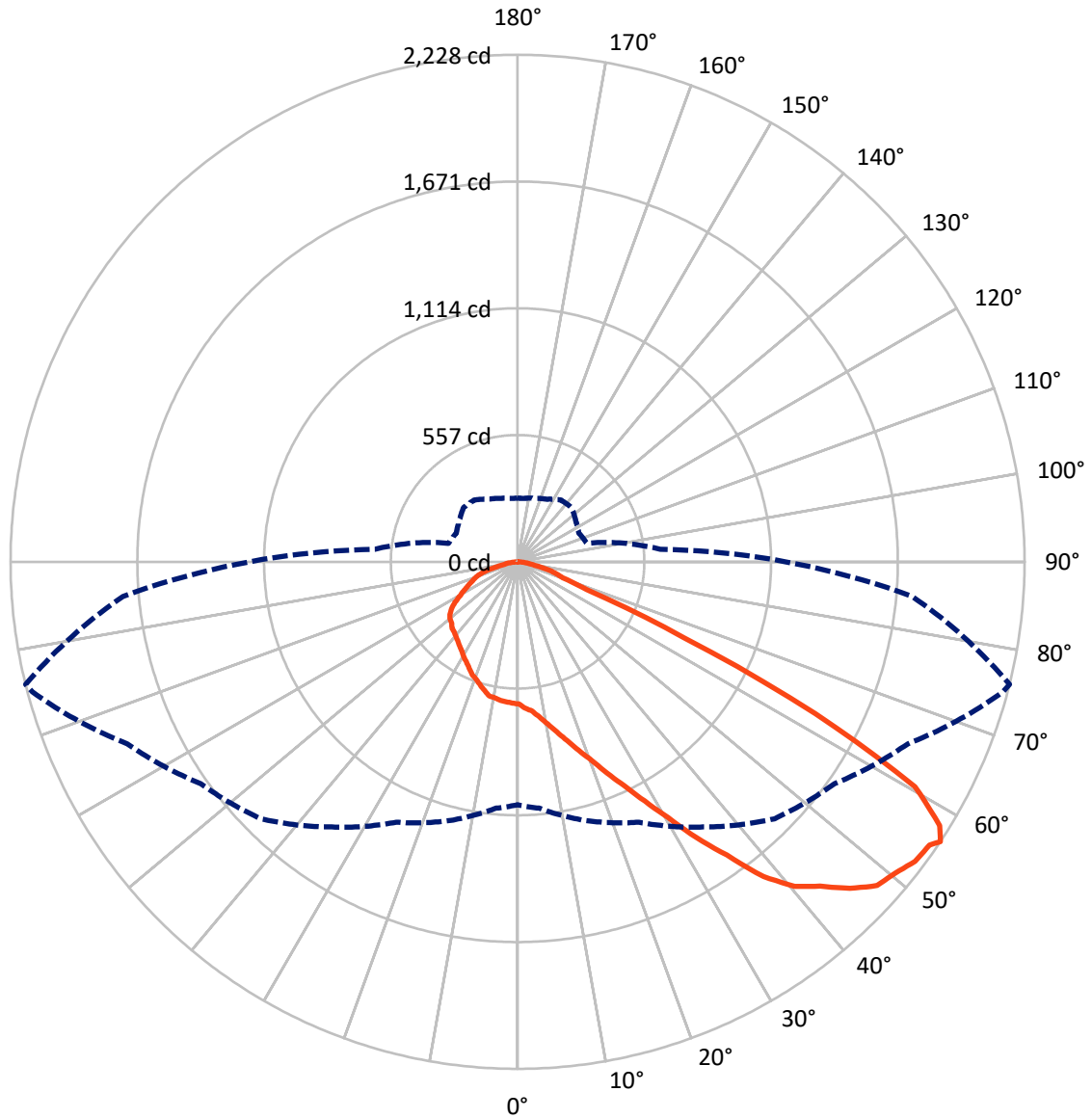
✕ Max cd
 - - - 1/2 Max cd



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	877.8	0.0	877.8
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	2387.0	0.0	2387.0
	% Fixture	73.1	0.0	73.1
Total	Lumens	3264.8	0.0	3264.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.9	1.9
10°-20°	194.6	6.0
20°-30°	340.3	10.4
30°-40°	532.9	16.3
40°-50°	775.2	23.7
50°-60°	851.9	26.1
60°-70°	380.3	11.6
70°-80°	109.8	3.4
80°-90°	17.8	0.5
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°	3264.8	100.0
0°-180°	3264.8	100.0

Coefficient of Utilization

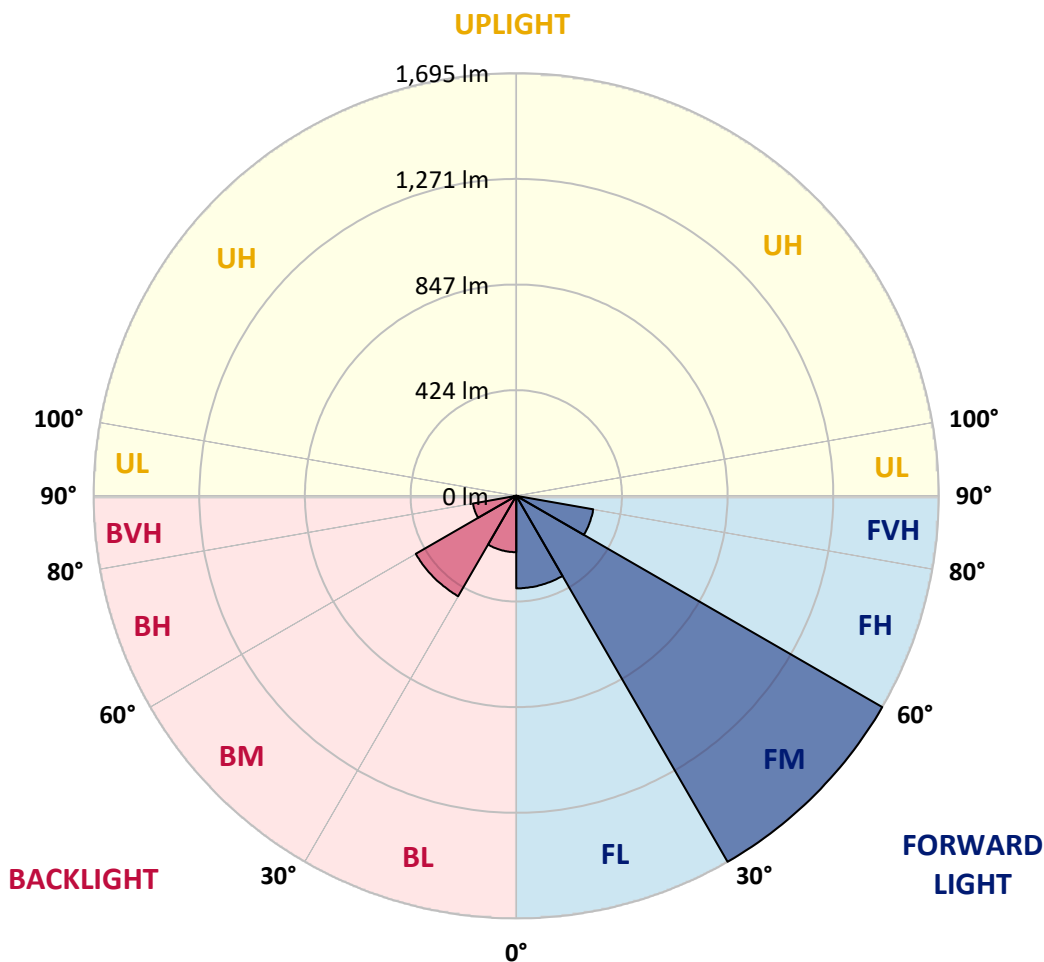


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	371.0	11.4			
FM (30°-60°)	1694.8	51.9			
FH (60°-80°)	313.5	9.6			G0/660
FVH (80°-90°)	7.7	0.2			G0/10
BL (0°-30°)	225.9	6.9	B1/500		
BM (30°-60°)	465.2	14.2	B1/1000		
BH (60°-80°)	176.6	5.4	B1/500		G1/500
BVH (80°-90°)	10.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	624.7	624.7	624.7	624.7	624.7	624.7	624.7	624.7	624.7	624.7	624.7
2.5°	688.2	677.2	676.3	673.3	675.1	667.4	659.3	648.8	637.8	644.5	628.5
5°	736.4	721.6	727.5	717.4	718.6	708.5	692.0	679.7	666.2	658.1	646.6
7.5°	753.4	754.6	758.8	757.2	748.7	748.7	737.6	716.1	692.4	687.8	668.7
10°	776.2	776.6	772.0	773.2	785.1	779.6	769.9	760.5	730.1	724.5	690.7
12.5°	784.2	776.6	784.2	791.0	804.9	812.6	810.5	803.7	771.1	767.3	717.8
15°	785.5	780.9	787.2	802.4	814.7	846.9	863.0	858.3	815.1	815.5	748.2
17.5°	779.6	785.9	788.4	801.6	829.9	860.0	906.5	912.9	877.3	871.9	786.8
20°	787.6	783.0	786.3	798.2	835.9	882.8	943.8	985.7	935.7	931.9	826.5
22.5°	818.5	812.2	811.3	819.0	846.0	894.7	983.1	1058.5	1006.8	1008.9	876.1
25°	842.6	846.0	843.0	842.6	859.6	912.5	1035.2	1145.2	1103.3	1091.0	934.4
27.5°	884.1	892.1	886.2	894.2	890.5	939.1	1072.4	1241.3	1207.4	1190.9	987.3
30°	941.7	945.9	940.4	940.4	929.0	976.4	1106.3	1341.6	1327.6	1305.2	1049.6
32.5°	1017.4	1023.7	1012.7	1006.4	1004.7	1031.8	1167.2	1440.6	1464.3	1445.3	1132.1
35°	1117.7	1113.9	1100.8	1094.9	1072.0	1116.8	1257.8	1554.5	1616.7	1582.8	1232.0
37.5°	1206.2	1200.3	1199.4	1166.4	1171.9	1208.7	1334.8	1640.8	1764.4	1754.7	1337.4
40°	1288.7	1294.2	1303.1	1284.5	1276.0	1316.7	1424.6	1706.8	1879.1	1875.3	1418.6
42.5°	1377.1	1372.1	1387.7	1372.1	1359.4	1416.9	1521.9	1752.6	1979.8	1948.5	1503.7
45°	1505.4	1489.3	1494.8	1496.1	1486.8	1507.9	1562.1	1785.5	2050.5	2047.1	1565.9
47.5°	1612.4	1612.9	1603.5	1596.4	1568.0	1589.2	1607.0	1806.3	2131.8	2126.2	1590.0
50°	1652.2	1646.8	1673.8	1689.5	1691.2	1648.0	1642.1	1817.7	2174.5	2150.4	1614.1
52.5°	1509.2	1514.3	1557.0	1650.1	1703.9	1708.5	1683.2	1841.5	2191.8	2186.8	1633.6
55°	1214.7	1239.2	1309.4	1416.9	1544.3	1684.4	1727.6	1866.0	2201.1	2196.9	1719.9
56°	1067.8	1086.8	1178.2	1262.4	1422.5	1596.8	1699.7	1892.2	2208.4	2228.2	1740.3
57.5°	859.6	881.5	947.1	1042.8	1231.6	1430.0	1622.6	1860.0	2180.5	2188.0	1755.1
60°	537.5	539.6	618.3	681.4	814.3	1008.1	1238.4	1618.4	2017.9	2006.9	1576.5
62.5°	352.5	353.0	424.5	476.1	536.6	581.0	728.8	1073.3	1488.9	1469.4	1122.4
65°	247.6	253.1	308.6	377.5	402.1	378.8	374.2	565.8	831.7	803.7	603.1
67.5°	181.2	181.6	230.7	304.7	340.3	288.2	234.1	276.4	329.3	328.4	279.3
70°	119.8	124.9	162.5	227.7	268.3	231.5	191.3	197.6	209.5	209.5	207.8
72.5°	69.8	74.5	99.5	144.3	150.7	144.7	151.5	169.3	176.9	176.4	174.3
75°	39.8	41.9	47.4	60.1	74.9	88.5	111.3	128.3	135.8	140.5	135.0
77.5°	23.3	24.6	27.9	34.3	38.9	47.9	60.6	72.4	82.5	81.2	82.1
80°	12.3	12.3	15.6	20.4	27.1	33.9	40.2	47.0	52.5	53.7	55.0
82.5°	7.2	7.7	10.2	14.8	19.4	24.1	30.9	35.6	40.6	41.0	41.9
85°	3.8	4.2	6.3	9.8	13.1	14.8	15.2	14.4	15.6	14.8	16.9
87.5°	1.3	1.3	2.1	1.7	1.7	2.1	2.5	2.5	3.4	3.4	3.4
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°	624.7	624.7	624.7	624.7	624.7	624.7	624.7	624.7	624.7	624.7	624.7
2.5°	628.1	628.1	620.8	607.3	605.2	599.7	594.6	594.2	590.4	587.0	585.3
5°	639.9	626.8	616.2	603.9	589.5	582.8	575.2	566.7	563.3	566.7	566.2
7.5°	653.5	642.4	610.7	587.9	571.4	564.6	556.1	547.2	548.1	548.1	542.1
10°	666.6	651.8	601.0	571.8	547.7	542.5	537.9	541.3	545.6	546.4	542.5
12.5°	688.6	655.1	596.4	555.6	540.4	529.4	532.4	541.7	550.6	548.1	551.0
15°	705.1	658.1	575.2	539.2	520.2	525.2	535.8	542.1	557.0	555.2	558.3
17.5°	721.2	659.8	554.4	517.1	509.1	523.1	531.2	549.3	554.0	564.1	567.9
20°	754.2	663.2	533.3	503.6	501.1	517.1	531.2	539.6	549.8	558.7	558.7
22.5°	771.1	661.5	519.3	485.8	493.9	504.0	516.7	531.2	531.2	539.6	540.0
25°	792.3	654.7	497.3	477.4	483.3	493.1	507.5	502.3	507.9	507.9	514.6
27.5°	816.4	640.3	478.3	462.1	474.0	484.6	486.7	483.3	476.9	476.1	473.6
30°	835.9	622.6	464.2	457.1	466.8	472.7	466.0	458.8	447.7	446.9	441.0
32.5°	862.5	600.6	446.9	444.4	455.4	455.8	453.7	442.7	426.6	419.8	413.1
35°	907.4	587.9	433.8	437.6	441.0	439.8	435.9	424.0	408.0	405.0	402.5
37.5°	940.4	578.5	420.2	424.9	427.9	429.6	418.1	405.0	405.4	399.6	397.8
40°	977.7	572.6	409.2	411.3	411.8	417.3	403.3	397.0	400.0	396.1	398.6
42.5°	1025.4	574.3	397.8	396.1	404.2	402.1	395.3	386.9	388.5	377.1	378.8
45°	1050.8	585.8	391.1	383.4	392.3	391.9	383.0	375.0	364.8	342.8	343.6
47.5°	1067.8	588.7	375.0	369.9	379.2	384.7	374.6	355.9	341.5	325.9	322.1
50°	1085.1	594.2	367.3	356.8	360.6	373.7	361.0	343.2	329.3	315.3	317.4
52.5°	1100.4	604.8	352.5	336.9	343.6	358.0	351.3	329.7	314.4	303.0	299.6
55°	1168.1	628.5	327.6	307.2	323.4	341.5	337.7	311.5	295.0	289.1	288.2
56°	1178.7	629.3	314.4	297.1	311.9	336.1	331.4	303.4	288.6	279.3	279.7
57.5°	1180.3	619.1	295.9	287.8	300.5	328.0	322.1	297.1	276.8	268.3	265.8
60°	1038.6	483.3	272.6	267.4	282.3	303.4	301.3	279.7	256.9	247.2	251.8
62.5°	708.0	354.2	254.3	253.5	261.1	281.9	276.4	256.9	237.8	231.5	228.5
65°	412.2	268.8	236.6	233.2	239.5	250.5	254.3	234.1	214.1	209.9	208.7
67.5°	243.4	222.2	213.7	208.2	206.1	212.9	215.8	204.0	184.1	178.2	183.3
70°	203.6	197.6	198.1	188.7	183.7	179.0	176.4	165.9	149.4	141.8	139.7
72.5°	175.6	173.1	171.4	162.9	158.3	147.7	136.7	126.2	113.9	107.5	107.9
75°	134.1	133.3	134.1	129.9	121.9	113.5	103.3	89.7	80.4	72.4	74.1
77.5°	80.0	82.5	83.8	82.1	78.7	71.1	64.8	55.8	47.0	40.6	39.8
80°	55.0	57.1	59.3	57.1	53.7	48.3	41.5	34.7	28.3	25.0	24.1
82.5°	41.9	44.0	45.2	43.1	38.9	33.1	28.3	23.7	18.6	15.2	14.4
85°	15.2	17.3	16.9	20.4	22.0	21.2	18.2	14.0	10.6	7.7	7.2
87.5°	4.2	3.8	4.2	4.2	4.2	3.8	3.4	3.4	3.4	2.1	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

(END OF REPORT)