

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: P527982

Luminaire Tested: **GALN-SA3A-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527982  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3A-735-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11176 lumens  
Efficiency: N/A  
Efficacy: 120.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

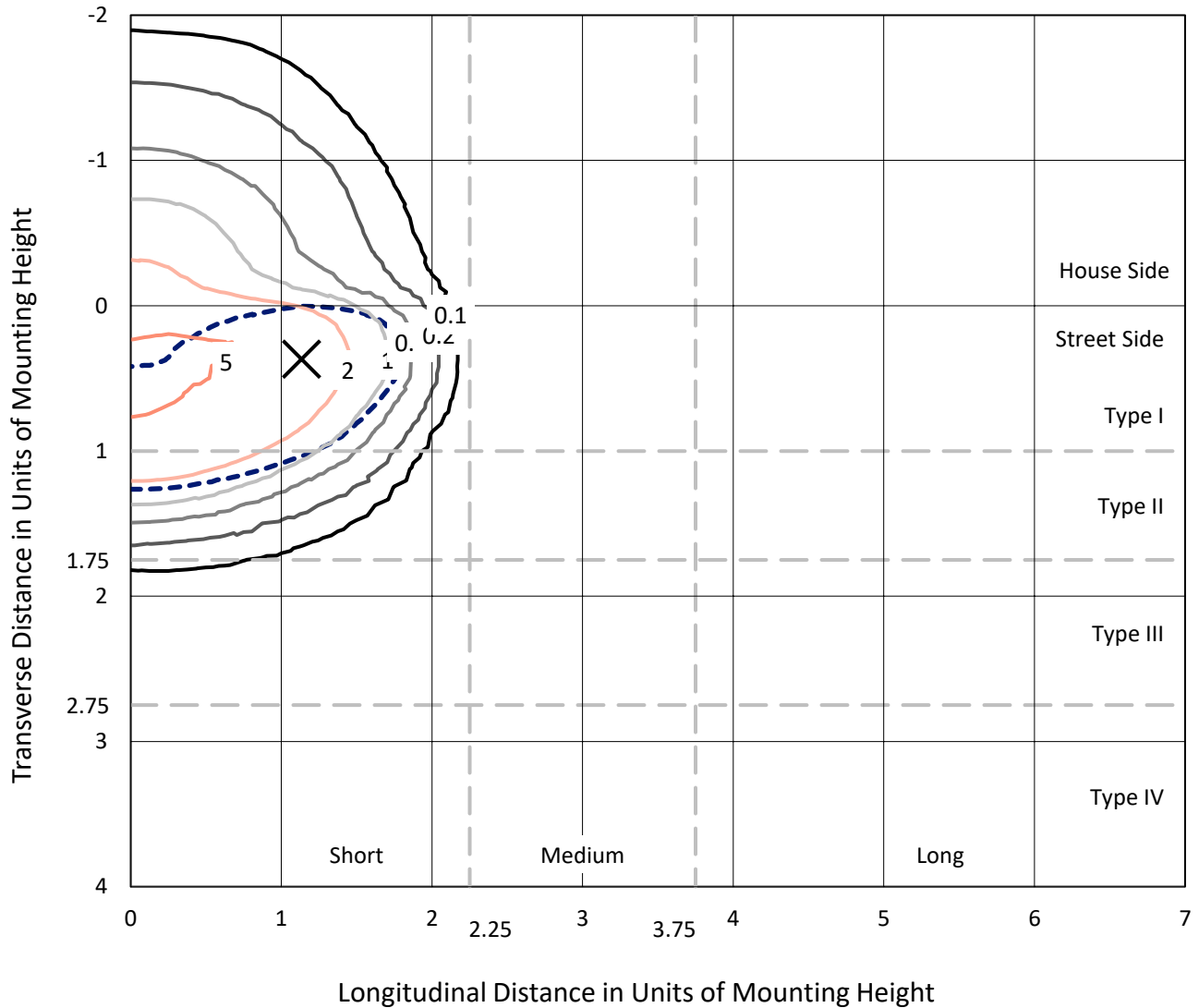
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

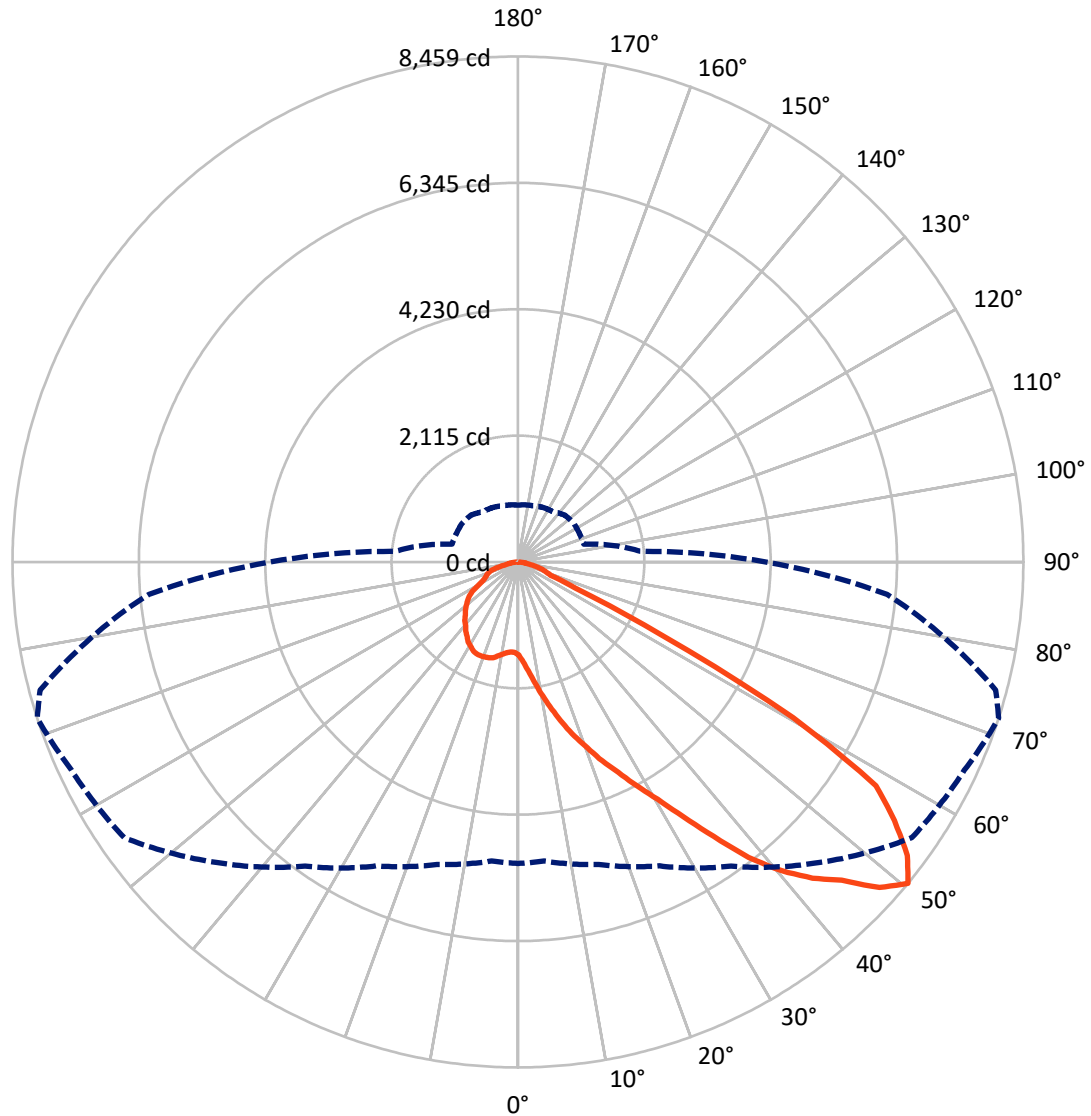
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2560.5	0.0	2560.5
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	8615.5	0.0	8615.5
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	11176.0	0.0	11176.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.0	1.6
10°-20°	684.1	6.1
20°-30°	1326.5	11.9
30°-40°	2197.5	19.7
40°-50°	3074.8	27.5
50°-60°	2593.9	23.2
60°-70°	790.6	7.1
70°-80°	277.4	2.5
80°-90°	48.2	0.4
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°	11176.0	100.0
0°-180°	11176.0	100.0

**Coefficient of Utilization**

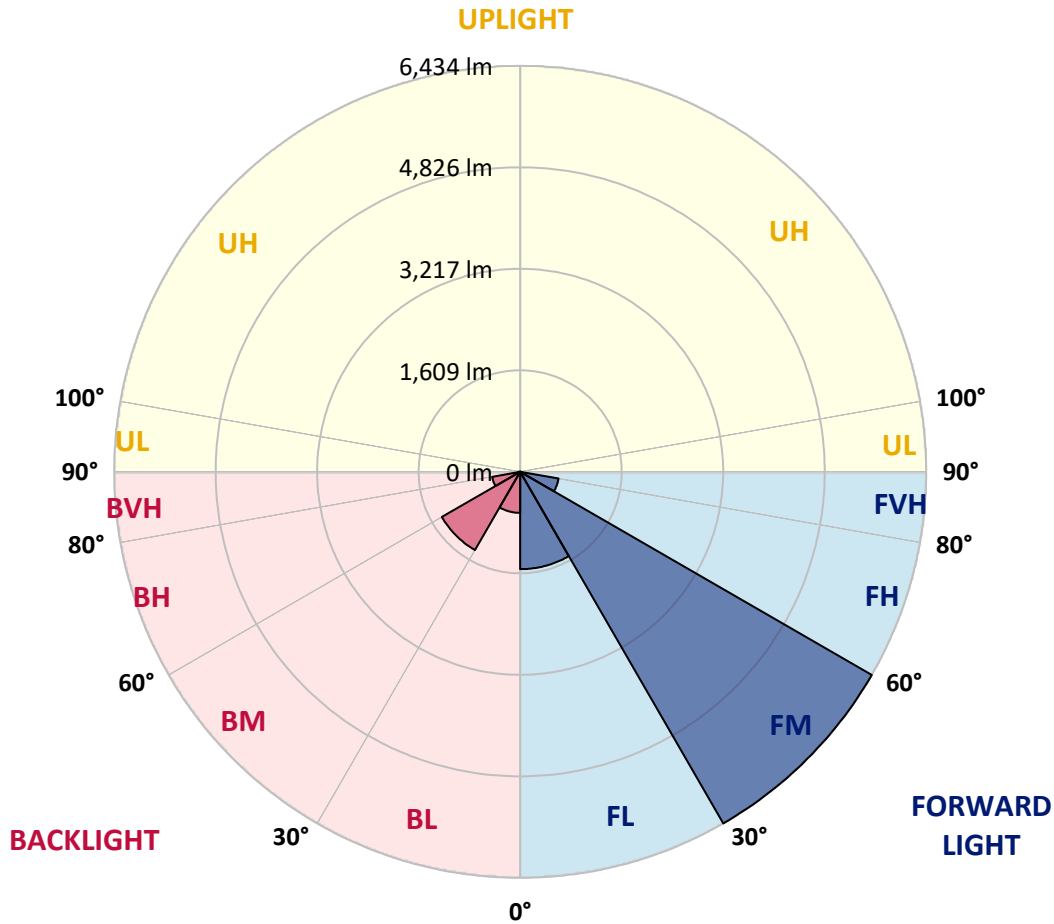


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1542.7	13.8			
FM (30°-60°)	6434.3	57.6			
FH (60°-80°)	616.9	5.5			G0/660
FVH (80°-90°)	21.6	0.2			G1/100
BL (0°-30°)	650.9	5.8	B2/1000		
BM (30°-60°)	1431.9	12.8	B2/2500		
BH (60°-80°)	451.1	4.0	B1/500		G1/500
BVH (80°-90°)	26.6	0.2			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1555.8	1555.8	1555.8	1555.8	1555.8	1555.8	1555.8	1555.8	1555.8	1555.8	1555.8
2.5°	2001.1	1988.7	1951.3	1938.9	1894.6	1814.4	1786.7	1705.2	1670.6	1638.8	1601.4
5°	2530.8	2472.7	2468.5	2398.0	2295.7	2236.2	2059.2	1940.2	1831.0	1775.7	1673.3
7.5°	2868.2	2869.6	2869.6	2811.5	2729.9	2579.2	2420.1	2205.8	2041.2	1959.6	1785.4
10°	3189.0	3161.4	3146.2	3140.6	3085.3	2938.7	2768.6	2503.1	2277.7	2182.3	1869.7
12.5°	3415.8	3392.3	3426.9	3408.9	3368.8	3273.4	3113.0	2810.1	2528.0	2399.4	2005.2
15°	3523.7	3540.3	3568.0	3617.7	3599.8	3563.8	3386.8	3125.4	2797.7	2652.5	2125.6
17.5°	3689.7	3644.0	3677.2	3739.4	3789.2	3772.6	3671.7	3353.6	3064.6	2886.2	2287.4
20°	3805.8	3779.5	3796.1	3868.1	3905.4	3999.4	3946.9	3652.3	3320.4	3132.3	2478.2
22.5°	4137.7	4099.0	4045.1	4056.1	4070.0	4136.3	4148.8	3980.1	3617.7	3418.6	2659.4
25°	4547.1	4511.1	4447.5	4382.5	4342.4	4329.9	4372.8	4237.3	3902.6	3696.6	2854.4
27.5°	4997.9	4937.1	4896.9	4762.8	4654.9	4638.3	4617.6	4544.3	4240.1	4017.4	3074.2
30°	5436.3	5387.9	5334.0	5119.6	5007.6	4989.6	4887.3	4908.0	4606.5	4359.0	3323.2
32.5°	5768.2	5772.3	5649.3	5487.5	5382.4	5286.9	5249.6	5309.1	5076.7	4877.6	3601.1
35°	6036.5	6048.9	5931.4	5784.8	5671.4	5737.8	5721.2	5748.8	5638.2	5394.8	3924.8
37.5°	6297.9	6235.6	6109.8	6039.2	5979.8	6089.0	6230.1	6253.6	6274.3	5988.1	4300.9
40°	6340.7	6346.3	6273.0	6322.7	6248.1	6412.6	6740.4	6710.0	6794.3	6544.0	4708.9
42.5°	6279.9	6292.3	6321.4	6391.9	6571.7	6769.4	7256.2	7131.8	7234.1	7011.4	5105.8
45°	6180.3	6129.1	6165.1	6433.4	6744.5	7184.3	7727.8	7631.0	7597.8	7411.1	5578.7
47.5°	5704.6	5757.1	5869.1	6199.7	6667.1	7256.2	8062.5	8040.3	8139.9	8008.5	6008.8
50°	5044.9	5024.2	5239.9	5611.9	6214.9	7115.2	8044.5	8245.0	8459.4	8276.8	6201.1
52.5°	3778.2	3888.8	4074.1	4536.0	5396.2	6346.3	7651.7	7986.4	8160.7	8121.9	6046.2
55°	2388.3	2421.5	2533.5	3082.5	3857.0	5093.3	6559.2	7335.1	7646.2	7791.4	5903.7
57.5°	1160.3	1098.0	1235.0	1676.1	2227.9	3425.5	5058.8	6389.1	7065.4	7328.1	5593.9
60°	605.7	629.2	683.2	840.8	1152.0	1778.4	3153.1	4258.0	5291.1	5694.9	4240.1
62.5°	502.0	510.3	546.3	625.1	766.1	1023.4	1609.7	2075.8	2698.1	3061.8	2411.8
65°	425.9	430.1	468.8	521.4	611.3	720.5	828.4	867.1	1049.6	1077.3	857.4
67.5°	355.4	359.6	401.0	450.8	508.9	538.0	565.6	562.9	583.6	575.3	573.9
70°	273.8	278.0	320.8	373.4	402.4	385.8	471.6	490.9	499.2	506.2	517.2
72.5°	197.8	206.1	239.2	276.6	261.4	300.1	388.6	417.6	428.7	432.9	446.7
75°	143.8	146.6	154.9	143.8	166.0	208.8	273.8	309.8	323.6	327.8	348.5
77.5°	63.6	65.0	66.4	83.0	106.5	130.0	163.2	192.2	211.6	217.1	222.7
80°	33.2	34.6	42.9	56.7	76.1	95.4	118.9	135.5	148.0	149.4	154.9
82.5°	20.7	22.1	30.4	40.1	53.9	70.5	87.1	101.0	110.6	112.0	113.4
85°	9.7	12.4	18.0	24.9	36.0	45.6	47.0	40.1	42.9	44.3	41.5
87.5°	2.8	4.1	5.5	4.1	5.5	5.5	6.9	8.3	8.3	8.3	9.7
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°	1555.8	1555.8	1555.8	1555.8	1555.8	1555.8	1555.8	1555.8	1555.8	1555.8	1555.8
2.5°	1580.7	1568.2	1519.8	1501.9	1454.8	1463.1	1438.2	1436.9	1431.3	1429.9	1428.6
5°	1619.4	1580.7	1522.6	1478.4	1452.1	1449.3	1431.3	1431.3	1436.9	1441.0	1431.3
7.5°	1683.0	1638.8	1540.6	1499.1	1475.6	1471.4	1459.0	1449.3	1461.8	1457.6	1446.5
10°	1756.3	1678.9	1575.2	1539.2	1500.5	1490.8	1490.8	1494.9	1474.2	1481.1	1470.1
12.5°	1837.9	1734.2	1619.4	1577.9	1532.3	1526.8	1524.0	1493.6	1504.6	1499.1	1471.4
15°	1941.6	1797.8	1676.1	1605.6	1566.9	1542.0	1506.0	1500.5	1493.6	1479.7	1467.3
17.5°	2053.6	1867.0	1702.4	1613.9	1555.8	1537.8	1510.2	1481.1	1460.4	1463.1	1453.5
20°	2149.1	1930.6	1712.1	1622.2	1547.5	1512.9	1470.1	1452.1	1429.9	1428.6	1427.2
22.5°	2262.5	2016.3	1725.9	1600.0	1522.6	1486.6	1457.6	1425.8	1410.6	1391.2	1400.9
25°	2398.0	2049.5	1728.7	1587.6	1504.6	1441.0	1425.8	1391.2	1385.7	1358.0	1363.6
27.5°	2496.2	2067.5	1706.5	1548.9	1463.1	1414.7	1387.1	1362.2	1352.5	1331.8	1326.2
30°	2627.6	2095.1	1659.5	1500.5	1421.7	1367.7	1351.1	1345.6	1317.9	1295.8	1293.0
32.5°	2776.9	2113.1	1629.1	1450.7	1378.8	1337.3	1345.6	1319.3	1284.7	1265.4	1259.8
35°	2895.9	2120.0	1553.0	1394.0	1349.7	1323.5	1313.8	1308.3	1258.5	1240.5	1226.7
37.5°	3077.0	2104.8	1489.4	1353.9	1317.9	1308.3	1300.0	1262.6	1205.9	1179.6	1160.3
40°	3288.6	2100.7	1407.8	1297.2	1287.5	1298.6	1273.7	1215.6	1136.8	1107.7	1093.9
42.5°	3491.9	2129.7	1356.7	1266.8	1254.3	1258.5	1223.9	1136.8	1098.0	1081.5	1059.3
45°	3832.1	2190.6	1272.3	1219.7	1214.2	1211.4	1170.0	1078.7	1056.6	1035.8	1031.7
47.5°	4139.1	2150.5	1218.4	1171.3	1176.9	1161.7	1073.2	1044.1	1019.2	998.5	991.6
50°	4157.1	2055.0	1142.3	1134.0	1135.4	1109.1	1024.7	1005.4	973.6	959.8	950.1
52.5°	4063.0	1898.8	1071.8	1074.5	1078.7	1035.8	965.3	951.5	925.2	905.8	900.3
55°	3798.9	1655.4	1002.6	1013.7	1024.7	943.2	921.0	886.5	865.7	838.1	839.4
57.5°	3346.7	1333.1	905.8	923.8	947.3	857.4	840.8	797.9	767.5	745.4	742.6
60°	2243.1	948.7	760.6	767.5	820.1	784.1	782.7	739.9	698.4	679.0	668.0
62.5°	1323.5	724.7	656.9	650.0	648.6	669.3	703.9	688.7	634.8	597.4	608.5
65°	692.8	626.5	611.3	587.7	573.9	568.4	594.7	601.6	565.6	525.5	522.7
67.5°	582.2	582.2	569.8	561.5	542.1	518.6	502.0	479.9	474.3	463.3	449.5
70°	529.7	543.5	539.3	520.0	503.4	477.1	434.2	398.3	363.7	351.3	359.6
72.5°	461.9	475.7	475.7	466.0	443.9	403.8	362.3	320.8	291.8	269.7	266.9
75°	355.4	362.3	378.9	367.9	338.8	313.9	271.1	228.2	200.5	179.8	175.6
77.5°	226.8	237.9	237.9	236.5	215.7	192.2	164.6	134.1	113.4	98.2	94.0
80°	150.7	157.7	163.2	157.7	143.8	125.8	105.1	84.4	69.1	56.7	53.9
82.5°	110.6	118.9	123.1	117.5	103.7	89.9	74.7	59.5	44.3	34.6	31.8
85°	42.9	44.3	49.8	59.5	58.1	56.7	45.6	33.2	24.9	18.0	16.6
87.5°	11.1	9.7	11.1	11.1	9.7	8.3	8.3	8.3	8.3	4.1	5.5
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)