

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: P456929

Luminaire Tested: **GALN-SA8B-727-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456929  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8B-727-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37614 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

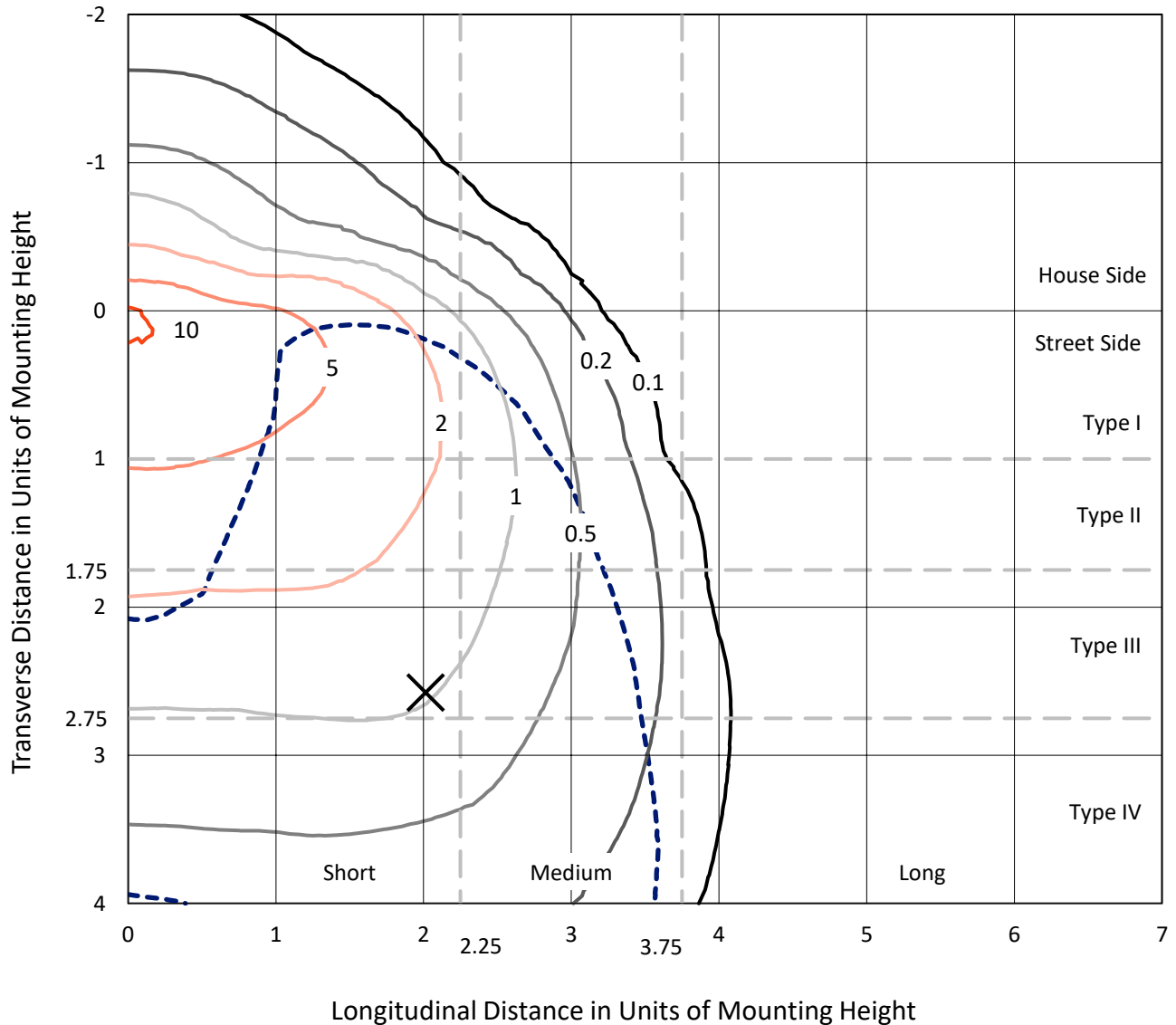
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

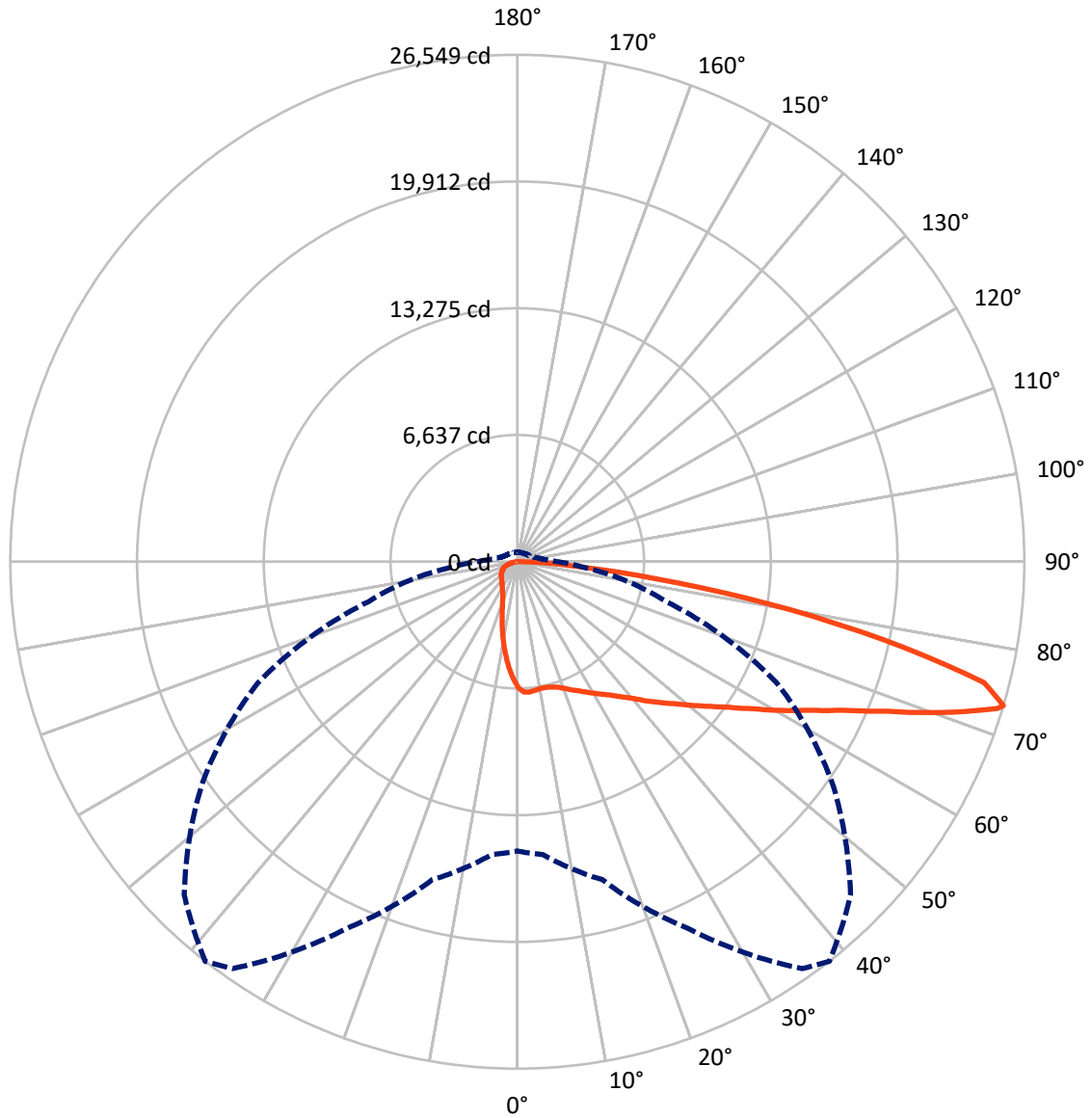
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5056.4	0.0	5056.4
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	32557.6	0.0	32557.6
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	37614.0	0.0	37614.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	576.8	1.5
10°-20°	1479.2	3.9
20°-30°	2303.3	6.1
30°-40°	3378.4	9.0
40°-50°	5011.5	13.3
50°-60°	7100.4	18.9
60°-70°	9007.0	23.9
70°-80°	7497.7	19.9
80°-90°	1259.7	3.3
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°	37614.0	100.0
0°-180°	37614.0	100.0

**Coefficient of Utilization**



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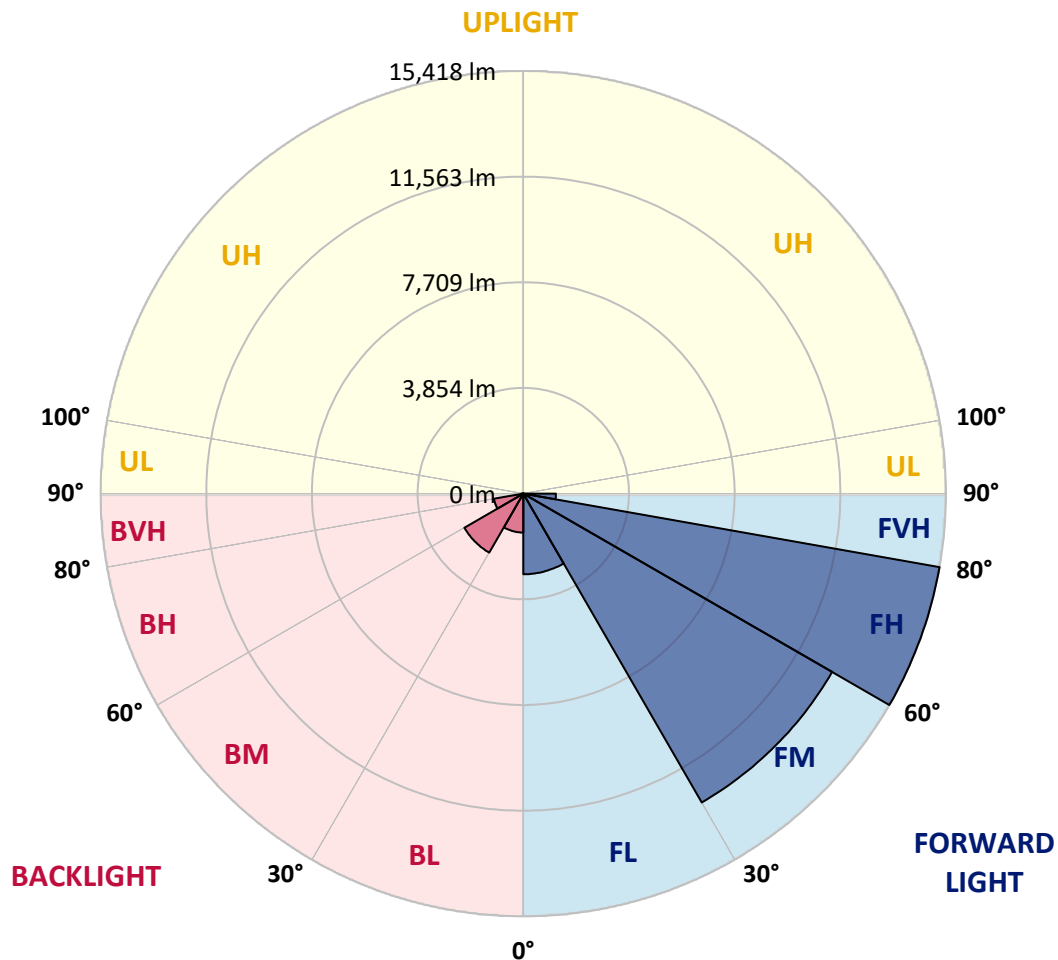
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2940.4	7.8			
FM (30°-60°)	13007.9	34.6			
FH (60°-80°)	15417.8	41.0			G5
FVH (80°-90°)	1191.4	3.2			G5
BL (0°-30°)	1418.9	3.8	B3/2500		
BM (30°-60°)	2482.4	6.6	B2/2500		
BH (60°-80°)	1086.8	2.9	B3/2500		G3/2500
BVH (80°-90°)	68.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	6608.1	6608.1	6608.1	6608.1	6608.1	6608.1	6608.1	6608.1	6608.1	6608.1	6608.1
2.5°	6873.7	6907.6	6890.7	6867.3	6852.4	6837.5	6816.3	6754.7	6705.9	6652.7	6569.9
5°	6924.6	6945.9	6931.0	6901.3	6867.3	6852.4	6812.1	6731.3	6652.7	6563.5	6440.3
7.5°	6894.9	6903.4	6886.4	6850.3	6820.6	6792.9	6746.2	6657.0	6561.4	6453.1	6291.6
10°	6788.7	6820.6	6820.6	6790.8	6761.1	6746.2	6699.5	6614.5	6527.4	6404.2	6213.1
12.5°	6701.6	6735.6	6763.2	6754.7	6752.6	6752.6	6716.5	6652.7	6550.8	6434.0	6206.7
15°	6642.1	6682.5	6742.0	6775.9	6797.2	6803.6	6788.7	6733.5	6629.4	6493.4	6232.2
17.5°	6629.4	6678.2	6786.6	6860.9	6916.1	6914.0	6909.8	6833.3	6718.6	6578.4	6264.0
20°	6686.7	6750.5	6901.3	7018.1	7098.8	7083.9	7060.6	6960.7	6826.9	6669.7	6293.8
22.5°	6858.8	6924.6	7090.3	7217.8	7296.4	7296.4	7226.3	7094.6	6952.3	6775.9	6334.1
25°	7105.2	7177.4	7353.7	7483.3	7519.4	7491.8	7421.7	7262.4	7098.8	6928.9	6419.1
27.5°	7406.8	7493.9	7657.5	7765.8	7755.2	7733.9	7661.7	7457.8	7294.2	7139.2	6563.5
30°	7782.8	7846.5	8016.4	8041.9	8003.7	7999.4	7897.5	7693.6	7540.6	7421.7	6769.6
32.5°	8137.5	8194.9	8330.8	8341.4	8273.5	8282.0	8186.4	7999.4	7912.4	7869.9	7115.8
35°	8513.5	8543.2	8660.0	8647.3	8602.7	8596.3	8558.1	8379.7	8407.3	8483.7	7606.5
37.5°	8827.8	8887.3	8953.2	8963.8	8961.7	8982.9	9008.4	8923.4	9082.7	9322.8	8250.1
40°	9116.7	9167.7	9265.4	9299.4	9382.2	9424.7	9511.8	9513.9	9881.4	10276.5	9042.4
42.5°	9312.1	9399.2	9581.9	9643.5	9845.3	9972.8	10102.3	10240.4	10773.5	11281.2	9977.0
45°	9482.1	9596.8	9900.5	10091.7	10365.7	10520.8	10794.8	11083.7	11850.5	12515.3	10926.5
47.5°	9739.1	9841.1	10189.4	10527.1	10941.4	11119.8	11529.7	11960.9	12963.5	13692.1	11835.6
50°	10095.9	10157.5	10512.3	11062.4	11591.3	11820.7	12362.4	12984.8	14153.0	14854.0	12634.3
52.5°	10552.6	10578.1	10860.6	11593.5	12290.2	12574.8	13292.8	14019.2	15193.8	15862.9	13267.3
55°	11092.2	11049.7	11270.6	12156.3	13088.8	13460.6	14231.6	15066.4	16364.2	16678.6	13728.2
57.5°	11625.3	11559.5	11735.8	12840.3	14074.4	14522.6	15421.1	16145.4	17409.3	17441.2	14051.1
60°	12190.3	12141.5	12351.8	13643.2	15283.1	15814.1	16644.6	17264.9	18420.4	17972.2	14102.0
62.5°	12770.2	12691.6	12991.1	14546.0	16644.6	17126.8	17931.8	18454.4	19412.3	18169.7	13611.4
65°	13333.1	13297.0	13760.1	15618.7	18195.2	18743.2	19524.9	19879.7	20206.8	17872.4	12394.2
67.5°	13932.1	14004.3	14743.5	17050.3	20217.4	20905.6	21748.9	21415.4	20434.0	16464.1	10437.9
70°	14845.5	14892.2	16035.0	18925.9	22823.7	23654.2	24062.0	21961.3	19338.0	13789.8	7846.5
72.5°	15238.4	15444.5	17188.4	20895.0	25784.7	26292.4	24839.5	20744.2	16109.3	9367.4	4122.9
73°	15151.4	15397.8	17241.5	21194.5	26016.2	26549.4	24673.8	20117.6	14975.1	8067.4	3534.5
75°	14065.9	14369.7	16551.2	20943.8	25565.9	25247.3	22010.1	17145.9	10119.3	3668.4	1610.1
77.5°	11098.5	11185.6	13114.3	16912.3	20132.4	19541.9	16472.6	10716.2	4133.5	1363.7	913.4
80°	5567.3	5888.1	7391.9	9688.1	13462.7	13269.4	10397.6	5068.2	1722.7	800.8	605.4
82.5°	2678.5	2905.8	3600.4	4724.0	7438.7	7262.4	5148.9	2769.9	1093.9	467.3	356.9
85°	1724.8	1894.7	2291.9	2253.7	3058.7	2920.7	2313.2	2096.5	647.9	244.3	248.5
87.5°	1138.5	1246.9	1495.4	1195.9	1113.0	1006.8	1021.7	1181.0	127.4	93.5	34.0
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°	6608.1	6608.1	6608.1	6608.1	6608.1	6608.1	6608.1	6608.1	6608.1	6608.1	6608.1
2.5°	6535.9	6508.3	6417.0	6327.8	6242.8	6162.1	6109.0	6038.9	5992.1	6004.9	6024.0
5°	6372.4	6310.8	6149.3	5992.1	5843.5	5667.2	5524.8	5410.1	5323.0	5291.2	5284.8
7.5°	6200.3	6096.2	5864.7	5594.9	5342.2	5123.4	4870.6	4745.3	4598.7	4547.7	4530.8
10°	6096.2	5956.0	5631.0	5255.1	4874.9	4511.6	4237.6	4014.6	3812.8	3774.6	3755.4
12.5°	6066.5	5881.7	5444.1	4959.8	4454.3	4008.2	3602.5	3309.4	3114.0	3069.4	3003.5
15°	6049.5	5820.1	5269.9	4662.4	4021.0	3477.2	3050.2	2708.3	2529.8	2410.9	2413.0
17.5°	6034.6	5750.0	5074.5	4337.5	3647.1	3020.5	2548.9	2240.9	2077.4	2013.7	2007.3
20°	6013.4	5667.2	4849.4	3995.5	3220.2	2604.2	2177.2	1947.8	1837.4	1784.3	1782.1
22.5°	6004.9	5586.4	4628.5	3647.1	2842.1	2283.4	1930.8	1769.4	1699.3	1663.2	1663.2
25°	6026.1	5529.1	4396.9	3315.8	2506.5	2009.4	1760.9	1650.4	1610.1	1591.0	1584.6
27.5°	6092.0	5503.6	4167.5	2984.4	2198.5	1822.5	1646.2	1569.7	1540.0	1525.1	1527.2
30°	6217.3	5501.5	3942.4	2657.3	1969.1	1680.2	1554.9	1501.8	1478.4	1469.9	1467.8
32.5°	6419.1	5548.2	3721.5	2387.5	1775.8	1561.2	1469.9	1431.7	1421.0	1414.7	1412.5
35°	6761.1	5679.9	3502.7	2141.1	1627.1	1455.0	1389.2	1370.1	1355.2	1361.6	1363.7
37.5°	7222.0	5907.2	3294.5	1947.8	1514.5	1376.4	1321.2	1304.2	1295.7	1302.1	1308.5
40°	7840.1	6234.3	3120.3	1792.8	1433.8	1310.6	1261.7	1246.9	1238.4	1249.0	1251.1
42.5°	8522.0	6612.4	2975.9	1671.7	1367.9	1255.4	1208.6	1191.6	1185.3	1191.6	1193.8
45°	9222.9	7052.1	2901.6	1584.6	1312.7	1215.0	1166.1	1147.0	1132.2	1127.9	1134.3
47.5°	9913.3	7434.4	2899.4	1531.5	1268.1	1178.9	1125.8	1104.5	1085.4	1074.8	1072.7
50°	10476.2	7738.2	2950.4	1508.1	1229.9	1138.5	1085.4	1064.2	1038.7	1017.5	1021.7
52.5°	10901.0	7935.7	2973.8	1497.5	1208.6	1096.0	1042.9	1023.8	994.1	966.5	966.5
55°	11175.0	7982.4	2916.4	1486.9	1191.6	1051.4	994.1	977.1	947.4	919.7	919.7
57.5°	11268.5	7838.0	2710.4	1461.4	1174.6	1013.2	945.2	930.4	907.0	879.4	875.1
60°	11051.8	7349.5	2349.3	1384.9	1140.7	972.8	892.1	885.8	877.3	853.9	851.8
62.5°	10217.0	6312.9	1956.3	1285.1	1083.3	930.4	843.3	853.9	860.3	847.5	845.4
65°	8827.8	5125.5	1671.7	1147.0	1006.8	870.9	790.2	817.8	834.8	834.8	830.5
67.5°	7160.4	3936.0	1408.3	1028.1	911.2	790.2	730.7	751.9	764.7	760.4	771.1
70°	5089.4	2665.8	1147.0	892.1	790.2	698.8	654.2	654.2	645.7	641.5	641.5
72.5°	2468.2	1523.0	930.4	745.6	673.3	596.9	560.8	545.9	528.9	526.8	516.2
73°	2062.5	1365.8	887.9	718.0	645.7	582.0	541.7	518.3	507.7	499.2	497.0
75°	1255.4	1036.6	741.3	605.4	550.1	501.3	465.2	443.9	433.3	426.9	424.8
77.5°	826.3	773.2	575.6	463.1	420.6	390.8	376.0	354.7	348.4	339.9	339.9
80°	616.0	590.5	412.1	327.1	301.6	276.1	271.9	267.6	250.6	240.0	235.8
82.5°	397.2	420.6	280.4	218.8	191.2	169.9	172.1	178.4	161.4	146.6	142.3
85°	282.5	303.7	169.9	99.8	80.7	70.1	78.6	70.1	72.2	57.4	46.7
87.5°	46.7	80.7	29.7	12.7	6.4	4.2	0.0	0.0	0.0	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)