

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: P532191

Luminaire Tested: **GALN-SA7C-735-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532191  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-735-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26909 lumens  
Efficiency: N/A  
Efficacy: 71.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

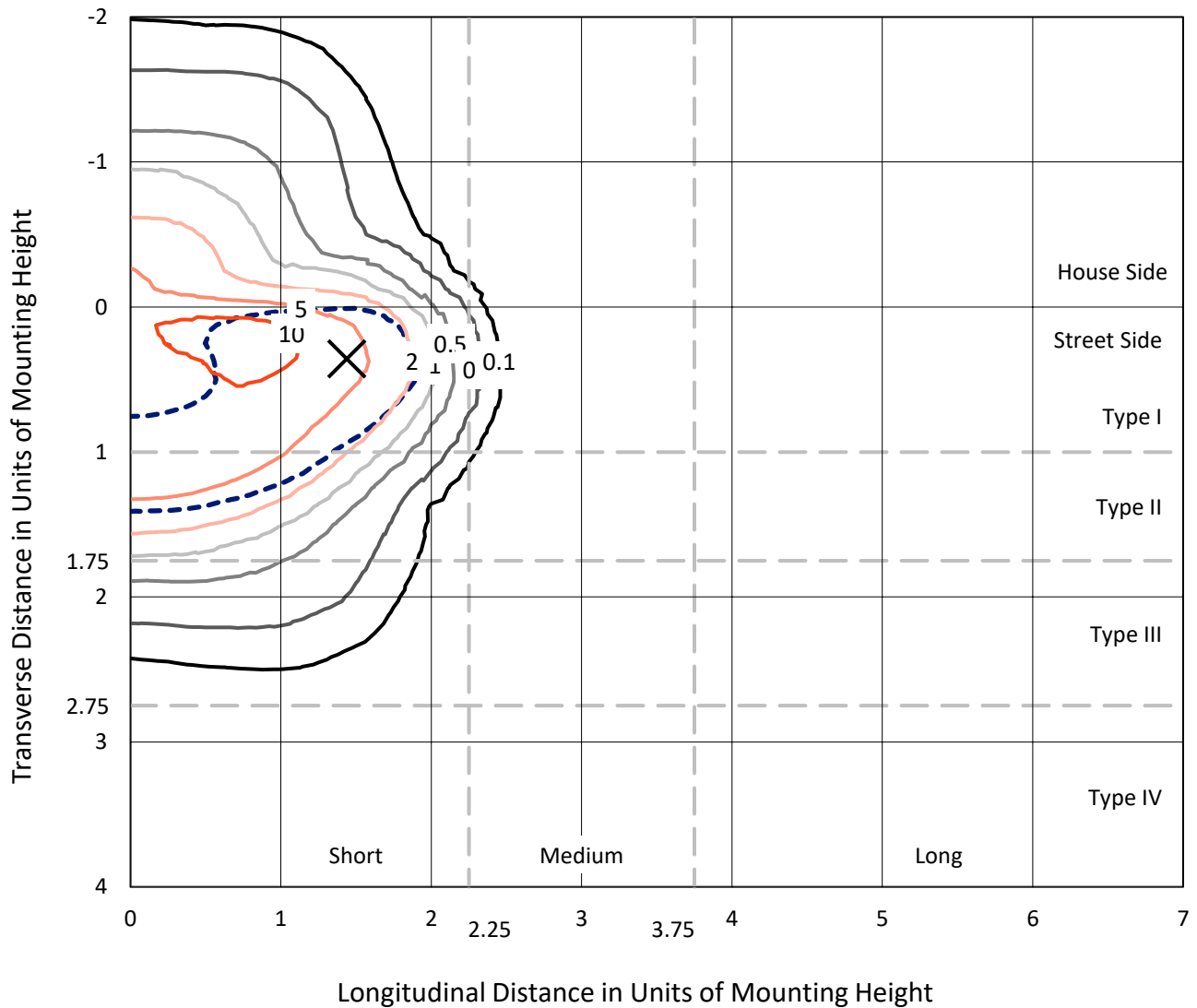
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

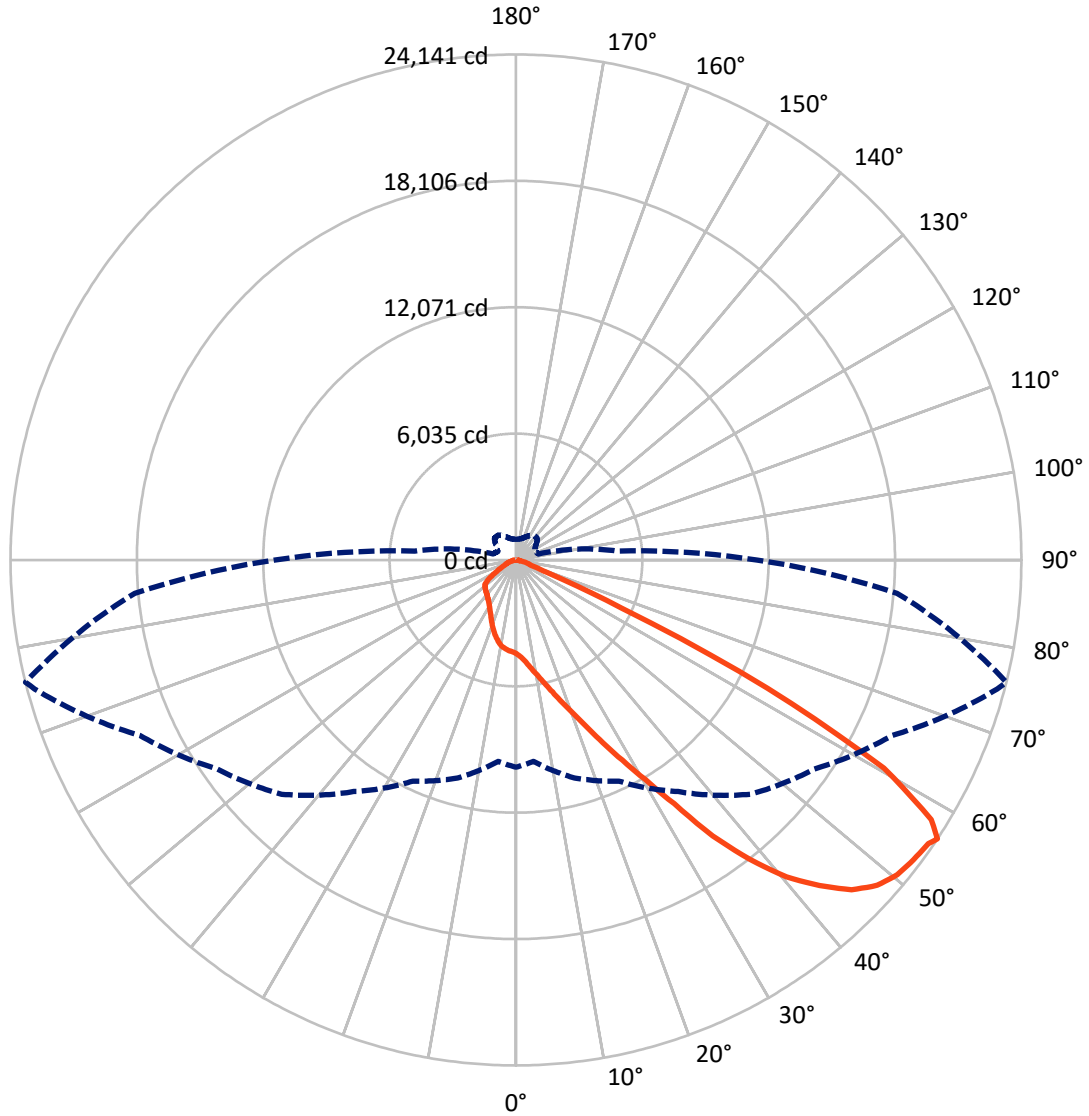
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 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
<b>House Side</b>	Lumens	4227.3	0.0	4227.3
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	22681.7	0.0	22681.7
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	26909.0	0.0	26909.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	451.2	1.7
10°-20°	1449.5	5.4
20°-30°	2628.4	9.8
30°-40°	4532.8	16.8
40°-50°	7363.7	27.4
50°-60°	7761.6	28.8
60°-70°	2371.5	8.8
70°-80°	304.0	1.1
80°-90°	46.2	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°	26909.0	100.0
0°-180°	26909.0	100.0

**Coefficient of Utilization**

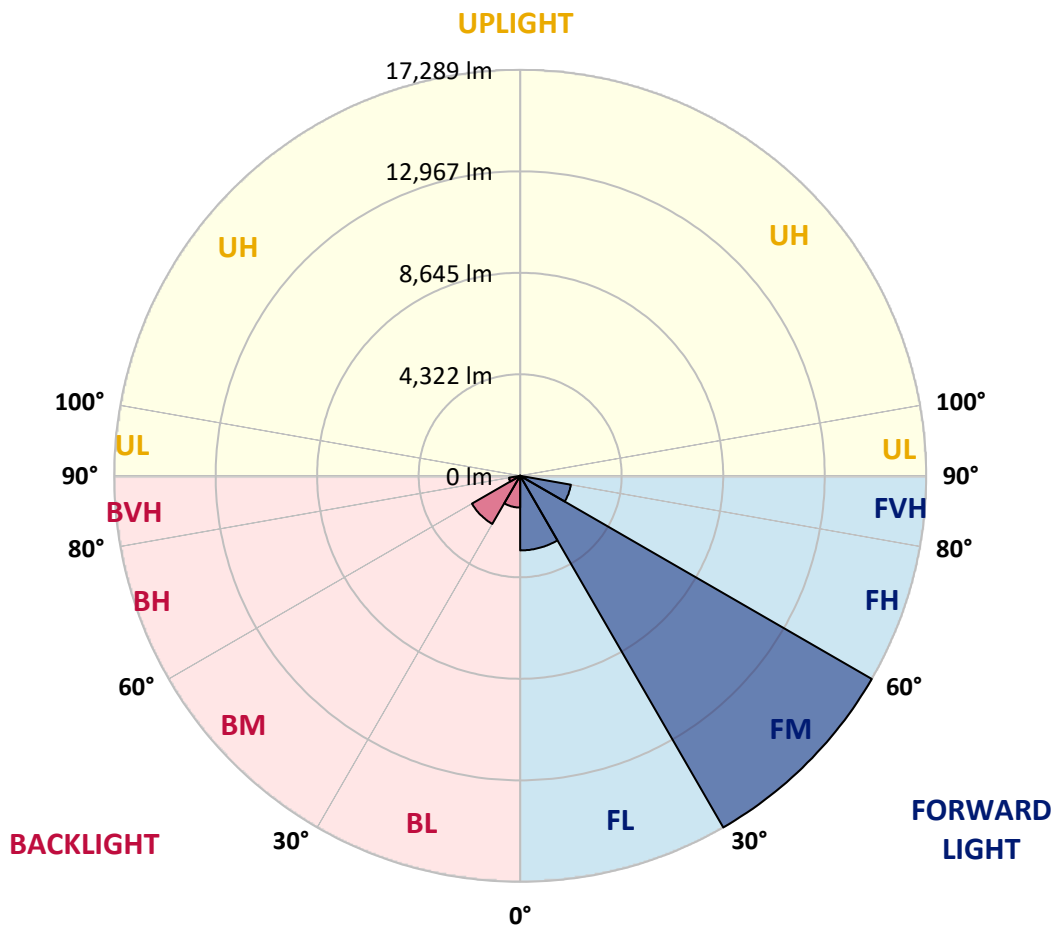


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3176.8	11.8			
FM (30°-60°)	17289.0	64.2			
FH (60°-80°)	2193.2	8.2			G2/5000
FVH (80°-90°)	22.6	0.1			G1/100
BL (0°-30°)	1352.3	5.0	B3/2500		
BM (30°-60°)	2369.1	8.8	B2/2500		
BH (60°-80°)	482.3	1.8	B1/500		G1/500
BVH (80°-90°)	23.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4479.0	4479.0	4479.0	4479.0	4479.0	4479.0	4479.0	4479.0	4479.0	4479.0	4479.0
2.5°	5158.6	5039.5	5044.5	5034.6	5019.7	4965.1	4801.5	4776.7	4667.5	4637.8	4538.6
5°	5778.6	5674.4	5734.0	5644.7	5560.4	5510.8	5242.9	5118.9	4945.3	4880.8	4741.9
7.5°	6165.5	6115.9	6096.1	6101.0	6021.7	5897.7	5778.6	5505.8	5272.7	5223.1	4930.4
10°	6354.0	6324.2	6354.0	6339.1	6373.8	6388.7	6180.4	6016.7	5674.4	5590.1	5133.8
12.5°	6398.6	6458.2	6483.0	6547.4	6631.8	6775.6	6760.7	6537.5	6081.2	6026.6	5446.3
15°	6507.8	6557.4	6532.6	6636.7	6795.4	7038.5	7167.5	7132.7	6641.7	6542.5	5808.4
17.5°	6607.0	6517.7	6602.0	6810.3	6969.1	7341.1	7653.6	7797.4	7251.8	7137.7	6140.7
20°	6740.9	6716.1	6701.2	6805.4	7088.1	7584.1	8204.1	8467.0	7936.3	7817.2	6616.9
22.5°	7147.6	7152.6	7142.7	6988.9	7192.3	7752.8	8685.3	9335.1	8754.7	8655.5	7157.5
25°	7683.3	7618.8	7569.2	7445.2	7420.4	7906.5	9171.4	10396.5	9736.8	9667.4	7742.8
27.5°	8248.8	8248.8	8100.0	7985.9	7827.2	8288.5	9617.8	11428.3	10922.3	10828.1	8253.7
30°	8863.8	8898.6	8878.7	8635.7	8536.5	8705.1	10074.1	12747.7	12281.4	12162.4	9097.0
32.5°	9771.6	9697.2	9781.5	9578.1	9285.5	9434.3	10793.4	13928.2	14047.2	13878.6	10203.1
35°	10971.9	10927.3	10872.7	10540.4	10193.2	10312.2	11810.2	15381.5	16264.4	16180.1	11319.1
37.5°	12048.3	12023.5	11978.8	11750.7	11348.9	11492.7	12965.9	16894.4	18427.1	18149.3	12896.5
40°	13179.2	13313.1	13169.3	12965.9	12598.9	12916.3	14325.0	17792.2	20247.5	19910.2	14101.8
42.5°	14711.9	14607.7	14672.2	14300.2	14101.8	14449.0	15689.1	18690.0	21661.1	21259.3	15381.5
45°	16343.8	16348.8	16175.2	16056.1	15540.2	15917.2	16527.3	19186.0	22787.1	22474.6	16348.8
47.5°	17390.4	17385.4	17573.9	17762.4	17231.7	16859.7	17097.7	19657.2	23367.4	23223.6	16700.9
50°	17226.7	17276.3	17519.4	18223.7	18501.5	18000.5	17633.4	19518.3	23630.3	23615.4	17003.5
52.5°	14984.7	15148.4	15555.1	16572.0	17970.7	18590.8	18193.9	19776.2	23759.3	23784.1	17454.9
55°	11408.4	11497.7	12271.5	13506.6	15054.1	17177.1	17970.7	19979.6	23858.5	23903.1	18000.5
56°	9895.6	9657.5	10773.5	11651.5	13501.6	15823.0	17405.3	19820.9	23798.9	24141.2	18273.3
57.5°	7470.0	7311.3	8214.1	9310.3	11091.0	13541.3	15649.4	19071.9	23397.2	23392.2	17881.5
60°	4543.5	4384.8	5079.2	5724.0	6721.0	8338.1	10575.1	15188.1	19781.2	20197.9	14478.8
62.5°	2703.3	2802.5	3487.0	3878.9	4201.3	4369.9	5471.1	9027.5	13199.0	13496.7	8982.9
65°	1800.5	1835.3	2351.1	2995.9	3139.8	2499.9	2227.1	3655.7	5724.0	5540.5	3705.3
67.5°	1111.1	1190.4	1577.3	2251.9	2495.0	1825.3	1056.5	1364.0	1577.3	1577.3	1071.4
70°	674.6	714.3	1051.6	1532.7	1711.3	1175.6	768.8	768.8	758.9	744.0	639.9
72.5°	322.4	347.2	535.7	788.7	803.5	620.0	595.2	649.8	634.9	629.9	530.7
75°	138.9	148.8	188.5	248.0	282.7	262.9	362.1	466.3	481.1	466.3	381.9
77.5°	44.6	49.6	69.4	89.3	94.2	114.1	153.8	193.4	223.2	208.3	188.5
80°	5.0	9.9	19.8	44.6	69.4	89.3	114.1	129.0	143.8	143.8	133.9
82.5°	5.0	5.0	19.8	39.7	64.5	84.3	109.1	124.0	143.8	148.8	138.9
85°	0.0	5.0	14.9	34.7	54.6	54.6	49.6	49.6	34.7	34.7	34.7
87.5°	0.0	0.0	5.0	5.0	5.0	9.9	9.9	9.9	9.9	9.9	9.9
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°	4479.0	4479.0	4479.0	4479.0	4479.0	4479.0	4479.0	4479.0	4479.0	4479.0	4479.0
2.5°	4518.7	4508.8	4374.9	4290.6	4245.9	4156.6	4102.1	4062.4	4032.6	3997.9	4002.9
5°	4578.2	4543.5	4320.3	4166.6	3983.0	3883.8	3799.5	3730.1	3685.4	3675.5	3655.7
7.5°	4746.9	4563.4	4226.1	3948.3	3715.2	3616.0	3541.6	3496.9	3516.8	3472.1	3506.8
10°	4875.9	4603.0	4112.0	3710.2	3477.1	3402.7	3363.0	3397.7	3447.3	3427.5	3402.7
12.5°	5034.6	4642.7	3928.5	3482.0	3263.8	3209.2	3278.7	3343.2	3442.4	3482.0	3432.4
15°	5213.2	4687.4	3695.3	3219.2	3080.3	3124.9	3244.0	3358.0	3457.2	3506.8	3536.6
17.5°	5431.4	4672.5	3467.2	3010.8	2906.7	3035.6	3179.5	3283.6	3432.4	3506.8	3487.0
20°	5634.8	4622.9	3214.2	2802.5	2807.5	2926.5	3045.6	3214.2	3293.6	3392.8	3358.0
22.5°	5828.2	4533.6	2951.3	2658.7	2658.7	2842.2	2901.7	3010.8	3080.3	3129.9	3124.9
25°	6101.0	4365.0	2733.1	2519.8	2579.3	2698.3	2747.9	2782.7	2752.9	2792.6	2797.5
27.5°	6294.5	4191.4	2554.5	2395.8	2504.9	2594.2	2579.3	2559.5	2490.0	2435.4	2470.2
30°	6502.8	3988.0	2400.7	2311.4	2371.0	2450.3	2390.8	2331.3	2222.2	2132.9	2137.8
32.5°	6800.4	3893.7	2266.8	2212.2	2291.6	2301.5	2237.0	2147.8	2038.6	1954.3	1949.4
35°	7355.9	3834.2	2152.7	2147.8	2162.6	2167.6	2103.1	1994.0	1949.4	1879.9	1904.7
37.5°	7911.5	3804.5	2073.4	2053.5	2048.6	2053.5	1979.1	1874.9	1959.3	1954.3	1964.2
40°	8620.8	3938.4	1959.3	1934.5	1939.4	1939.4	1845.2	1815.4	1964.2	1979.1	1984.1
42.5°	9340.0	4107.0	1884.9	1805.5	1825.3	1825.3	1775.7	1741.0	1845.2	1746.0	1731.1
45°	9965.0	4355.0	1805.5	1676.5	1726.1	1750.9	1736.1	1676.5	1612.1	1443.4	1443.4
47.5°	10168.4	4573.3	1711.3	1552.5	1592.2	1701.3	1656.7	1532.7	1418.6	1279.7	1269.8
50°	10525.5	4811.4	1636.9	1408.7	1493.0	1626.9	1582.3	1458.3	1329.3	1230.1	1235.1
52.5°	10892.6	5084.2	1498.0	1240.0	1344.2	1567.4	1567.4	1428.5	1230.1	1160.7	1150.8
55°	11443.1	5074.3	1250.0	1016.8	1200.4	1478.1	1502.9	1279.7	1101.2	1046.6	1046.6
56°	11522.5	4846.1	1126.0	952.4	1135.9	1453.3	1458.3	1240.0	1051.6	992.0	992.0
57.5°	10927.3	4374.9	987.1	873.0	1056.5	1408.7	1413.7	1205.3	1011.9	927.6	917.6
60°	8407.5	2961.2	823.4	778.7	957.3	1269.8	1294.6	1096.2	887.9	823.4	818.4
62.5°	4746.9	1641.8	724.2	704.3	823.4	1081.3	1155.7	957.3	753.9	719.2	729.1
65°	2167.6	902.8	610.1	570.4	664.7	833.3	932.5	788.7	620.0	580.3	580.3
67.5°	793.6	615.1	520.8	451.4	466.3	540.7	605.1	510.9	411.7	352.2	367.1
70°	565.5	515.9	456.3	391.9	362.1	352.2	347.2	287.7	203.4	158.7	168.6
72.5°	456.3	426.6	381.9	332.3	282.7	238.1	203.4	148.8	94.2	64.5	59.5
75°	327.4	312.5	277.8	238.1	198.4	168.6	138.9	94.2	49.6	24.8	24.8
77.5°	168.6	168.6	163.7	148.8	124.0	99.2	79.4	54.6	29.8	9.9	9.9
80°	129.0	138.9	143.8	129.0	114.1	89.3	64.5	39.7	19.8	5.0	5.0
82.5°	124.0	143.8	153.8	133.9	114.1	84.3	64.5	39.7	19.8	5.0	5.0
85°	29.8	29.8	44.6	49.6	64.5	69.4	54.6	34.7	14.9	5.0	5.0
87.5°	9.9	9.9	9.9	9.9	9.9	9.9	5.0	5.0	5.0	5.0	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)