

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: P534000

Luminaire Tested: **GALN-SA9C-727-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534000  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-727-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48097 lumens  
Efficiency: N/A  
Efficacy: 100.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

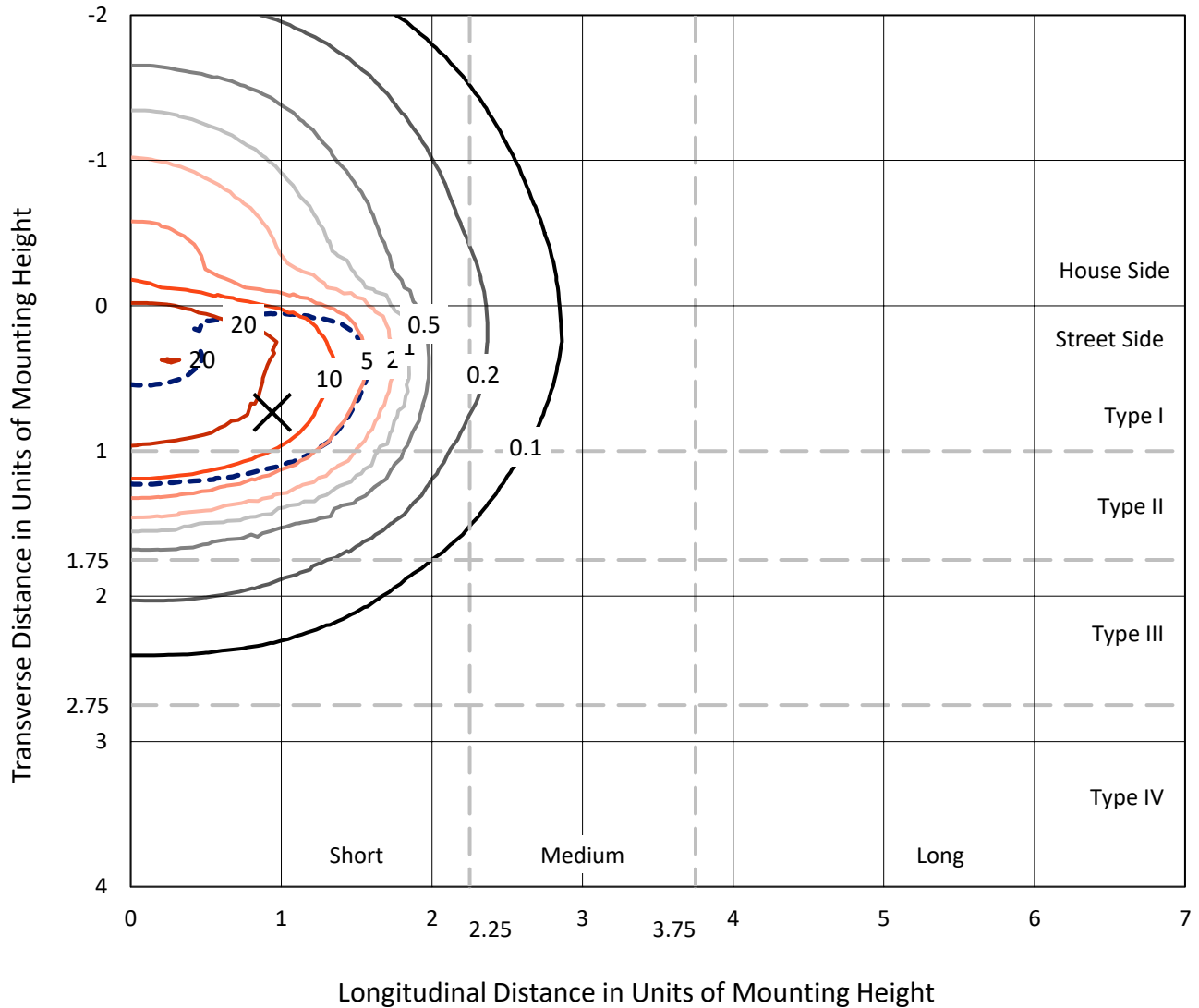
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

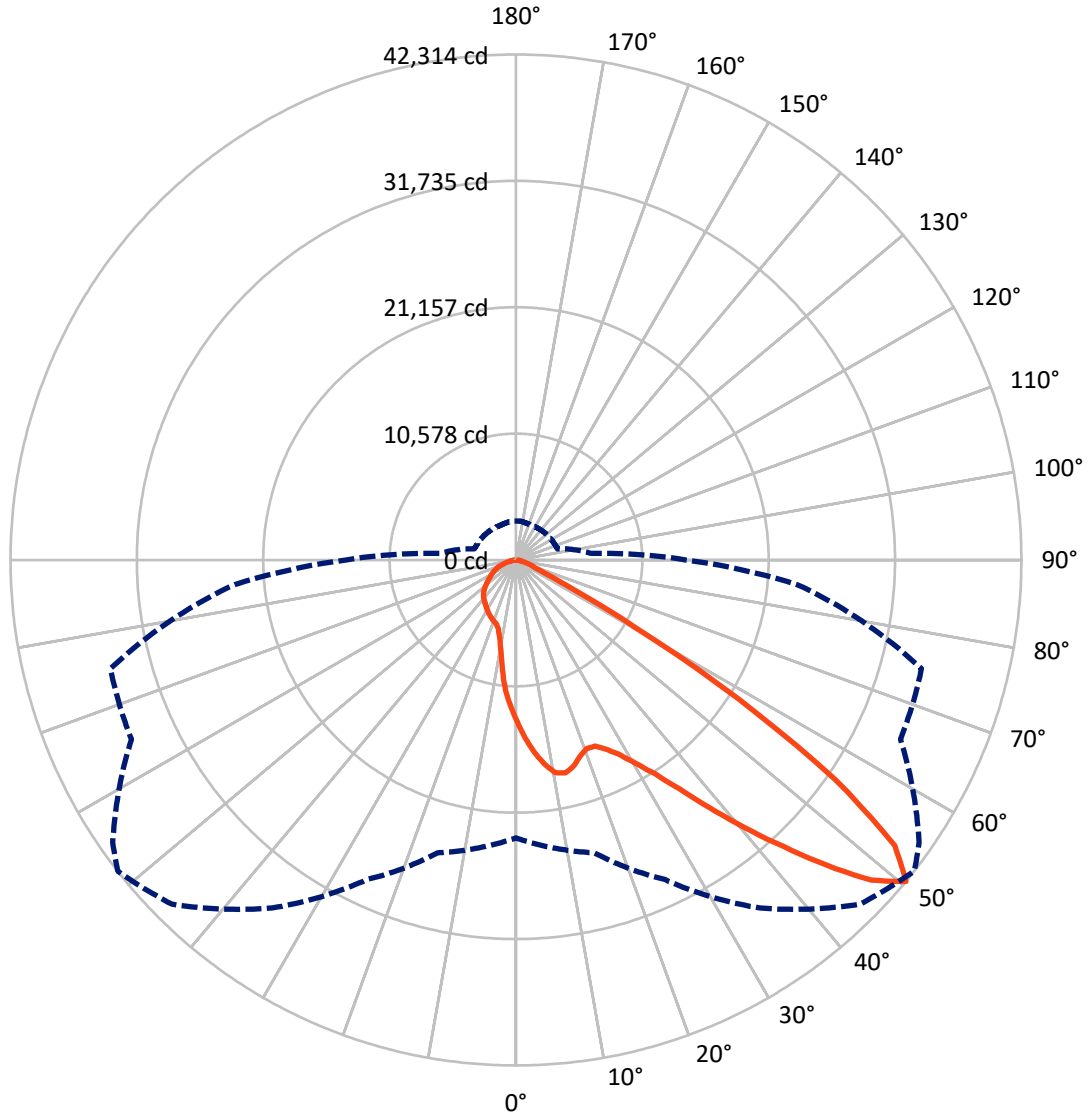
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9041.1	0.0	9041.1
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	39055.9	0.0	39055.9
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	48097.0	0.0	48097.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1249.6	2.6
10°-20°	3349.3	7.0
20°-30°	5641.7	11.7
30°-40°	9467.3	19.7
40°-50°	14482.6	30.1
50°-60°	10559.0	22.0
60°-70°	2349.9	4.9
70°-80°	847.6	1.8
80°-90°	150.0	0.3
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°	48097.0	100.0
0°-180°	48097.0	100.0

**Coefficient of Utilization**



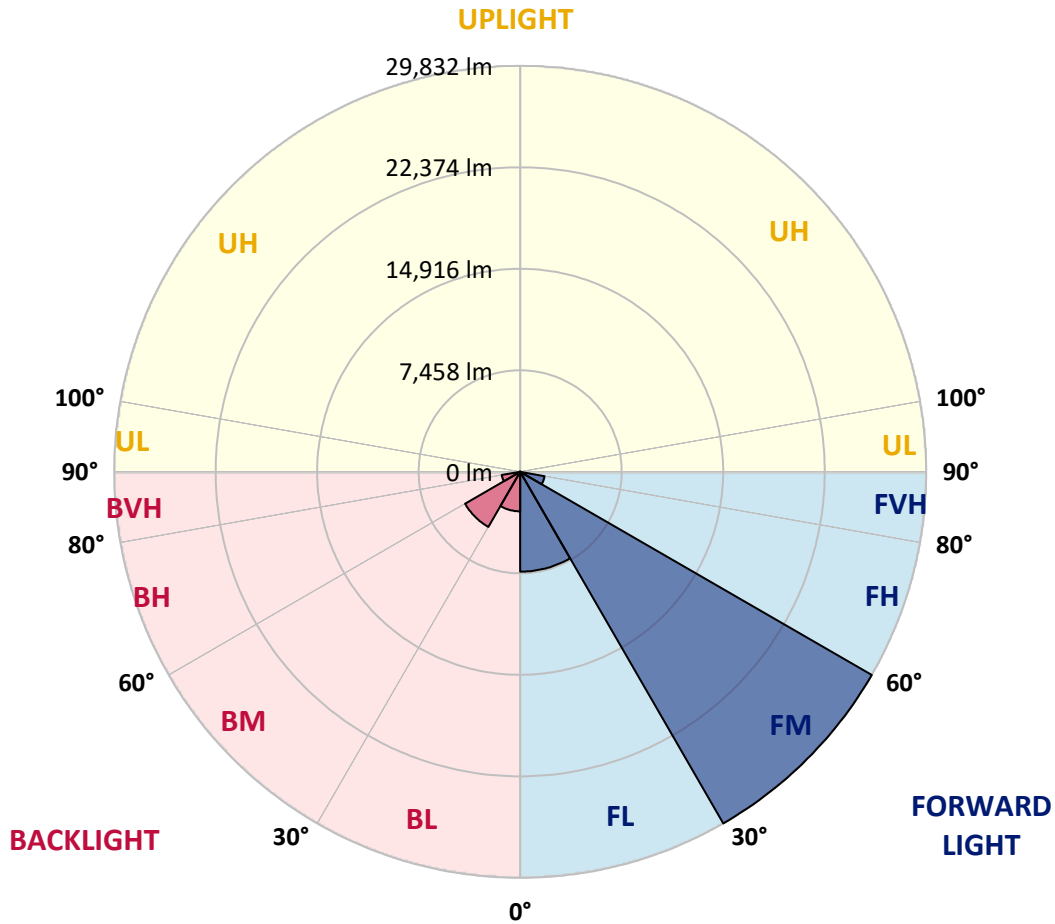
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7336.4	15.3			
FM (30°-60°)	29832.2	62.0			
FH (60°-80°)	1820.0	3.8			G2/5000
FVH (80°-90°)	67.2	0.1			G1/100
BL (0°-30°)	2904.2	6.0	B4/5000		
BM (30°-60°)	4676.7	9.7	B3/5000		
BH (60°-80°)	1377.4	2.9	B3/2500		G3/2500
BVH (80°-90°)	82.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	13557.7	13557.7	13557.7	13557.7	13557.7	13557.7	13557.7	13557.7	13557.7	13557.7	13557.7
2.5°	15963.2	15656.0	15690.8	15470.6	15232.9	15163.3	14919.9	14688.0	14514.2	14143.2	13801.2
5°	17447.1	17354.4	17215.3	17041.4	16861.7	16421.2	16171.9	15882.1	15244.5	14670.7	14102.6
7.5°	17661.6	17644.2	17719.6	17719.6	17783.3	17615.2	17261.6	17058.8	16380.6	15447.4	14392.4
10°	16154.5	16206.7	16571.9	17047.2	17708.0	18165.9	18107.9	18055.7	17313.8	16038.6	14734.4
12.5°	14954.7	14838.7	15053.2	15459.0	16450.1	17557.3	18305.0	18310.8	18119.5	16983.4	14983.7
15°	14276.5	14357.6	14415.6	14606.9	15354.6	16635.6	17951.4	18339.8	19180.2	17650.0	15377.8
17.5°	14711.2	14438.8	14427.2	14473.6	14856.1	15818.3	17296.4	17963.0	19759.9	18507.9	15864.7
20°	15279.3	15273.5	15111.2	15053.2	15047.4	15905.3	16867.5	17771.7	20067.1	19620.8	16357.4
22.5°	16276.3	16276.3	16009.6	15882.1	15609.7	16311.0	16925.4	17539.9	20577.2	20385.9	16595.1
25°	17945.6	17673.2	17215.3	16902.3	16745.8	16995.0	17539.9	18090.5	21023.5	21197.4	17087.7
27.5°	19487.4	19058.5	18832.5	18293.4	18084.7	17939.8	18438.3	18994.8	21545.2	22461.0	17354.4
30°	21238.0	21162.6	20756.9	20061.3	19545.4	19278.8	19736.7	20287.4	22501.6	23753.6	17968.8
32.5°	24368.0	23684.0	23133.4	22281.3	21440.8	20872.8	21324.9	21690.1	24089.8	25104.1	18641.2
35°	27747.3	27527.0	26576.4	25040.4	23753.6	23243.5	23510.1	23782.6	25938.8	27167.7	19771.5
37.5°	31068.6	30767.2	29984.7	28692.1	27127.1	26089.5	26280.8	26599.6	28013.9	29949.9	21151.0
40°	33456.7	33085.8	32691.6	32500.3	30946.9	29526.8	29416.7	29497.8	30819.4	32558.3	22681.3
42.5°	33630.6	34088.5	34210.3	34981.2	34616.0	33450.9	32772.8	32790.2	33497.3	35137.7	24228.9
45°	33265.5	32842.3	33740.8	35844.9	37050.5	37595.4	36453.5	36308.6	35155.1	36633.2	24999.8
47.5°	29434.0	29550.0	31068.6	34395.8	37879.4	40313.9	40047.2	39566.1	36041.9	36581.0	24878.1
50°	23266.7	23968.1	25376.6	29521.0	35560.8	40742.8	42313.6	41200.7	35514.5	35143.5	23637.7
52.5°	15493.7	15783.6	16711.0	22061.0	28593.6	36418.7	39705.2	39960.3	35027.6	33259.7	22066.8
55°	6897.7	6874.5	8178.7	11523.2	17939.8	27712.5	32442.4	33995.8	33155.3	31341.1	20536.6
57.5°	2921.4	3019.9	3553.2	4979.1	8822.1	16722.6	21979.9	23342.0	25498.3	25736.0	15754.6
60°	1976.6	1988.2	2133.1	2492.4	3692.3	7854.1	11529.0	13163.6	14705.4	14601.1	8358.4
62.5°	1553.4	1594.0	1704.1	1849.0	2191.0	3564.8	5158.8	6068.8	6167.4	5187.8	3170.6
65°	1327.4	1333.2	1443.3	1565.0	1715.7	2075.1	2486.6	2533.0	2562.0	2469.3	2330.1
67.5°	1095.5	1107.1	1194.1	1333.2	1472.3	1588.2	1704.1	1762.1	1895.4	2156.3	2121.5
70°	869.5	886.8	962.2	1078.1	1205.6	1275.2	1420.1	1472.3	1594.0	1796.9	1878.0
72.5°	660.8	666.6	730.3	811.5	927.4	997.0	1118.7	1176.7	1257.8	1431.7	1507.1
75°	475.3	492.7	539.1	579.6	597.0	643.4	759.3	823.1	939.0	1014.4	1020.2
77.5°	249.2	260.8	272.4	272.4	330.4	417.3	492.7	527.5	608.6	666.6	637.6
80°	98.5	104.3	133.3	179.7	231.9	301.4	353.6	371.0	440.5	475.3	492.7
82.5°	58.0	63.8	86.9	127.5	168.1	214.5	255.0	272.4	318.8	359.4	371.0
85°	29.0	34.8	52.2	81.1	110.1	133.3	127.5	121.7	121.7	115.9	121.7
87.5°	11.6	11.6	17.4	17.4	17.4	23.2	29.0	29.0	29.0	34.8	34.8
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°	13557.7	13557.7	13557.7	13557.7	13557.7	13557.7	13557.7	13557.7	13557.7	13557.7	13557.7
2.5°	13575.1	13343.3	13128.8	12734.7	12305.7	12184.0	11685.5	11505.8	11378.3	11227.6	11181.2
5°	13644.7	13337.5	12647.7	11853.6	11221.8	10410.3	9877.0	9303.2	8885.9	8781.5	8752.5
7.5°	13789.6	13262.1	12073.9	10874.0	9581.4	8480.1	7639.6	7187.5	6787.6	6764.4	6723.8
10°	13951.9	13036.1	11447.9	9564.0	7912.1	6891.9	6387.6	6190.5	6092.0	6068.8	6057.2
12.5°	14085.2	12989.7	10746.5	8288.8	6729.6	6115.2	5964.5	5947.1	5987.7	5999.3	6022.4
15°	14143.2	12804.2	9900.2	7146.9	5993.5	5767.4	5831.2	5900.7	5929.7	6005.1	5947.1
17.5°	14253.3	12566.6	8856.9	6242.7	5581.9	5622.5	5732.6	5813.8	5860.1	5912.3	5837.0
20°	14311.3	12352.1	7877.3	5703.6	5437.0	5512.4	5663.1	5726.8	5784.8	5808.0	5721.0
22.5°	14259.1	11911.6	7013.6	5268.9	5297.9	5396.4	5529.8	5599.3	5564.5	5471.8	5419.6
25°	14120.0	11291.4	6115.2	4990.7	5100.8	5274.7	5379.0	5326.9	5263.1	5211.0	5193.6
27.5°	14114.2	10532.0	5466.0	4735.6	4932.7	5170.4	5135.6	5089.2	5118.2	5077.6	5031.3
30°	14143.2	9795.9	4932.7	4590.7	4811.0	4926.9	4967.5	4921.1	4955.9	4880.6	4903.7
32.5°	13992.5	9077.1	4584.9	4422.6	4666.1	4660.3	4793.6	4828.4	4747.2	4590.7	4613.9
35°	14056.2	8497.5	4289.3	4347.3	4503.8	4503.8	4608.1	4567.6	4353.1	4260.3	4283.5
37.5°	14496.8	7929.5	4144.4	4243.0	4347.3	4393.7	4358.9	4185.0	4132.8	4132.8	4144.4
40°	14914.1	7442.6	4057.5	4219.8	4202.4	4231.4	3976.3	3993.7	3993.7	3999.5	3970.5
42.5°	15285.1	7112.2	3987.9	4080.7	4109.6	3958.9	3802.4	3785.0	3825.6	3819.8	3796.6
45°	15418.4	6839.7	3889.4	3924.2	3947.3	3698.1	3622.7	3588.0	3634.3	3651.7	3674.9
47.5°	14908.3	6613.7	3779.2	3709.7	3663.3	3501.0	3402.5	3338.7	3396.7	3495.2	3518.4
50°	14253.3	6318.1	3605.4	3472.0	3373.5	3303.9	3234.4	3170.6	3211.2	3280.8	3263.4
52.5°	13285.3	5854.3	3385.1	3246.0	3077.9	3095.3	3031.5	2996.7	3019.9	3019.9	3002.5
55°	11905.8	4811.0	3014.1	2915.6	2776.5	2822.8	2834.4	2788.1	2741.7	2782.3	2747.5
57.5°	8126.5	3396.7	2689.5	2689.5	2550.4	2614.2	2608.4	2498.2	2388.1	2399.7	2376.5
60°	4700.9	2706.9	2480.9	2457.7	2312.8	2364.9	2376.5	2301.2	2133.1	2144.7	2121.5
62.5°	2672.1	2312.8	2167.8	2133.1	2104.1	2150.5	2150.5	2051.9	1907.0	1918.6	1895.4
65°	2272.2	2144.7	1936.0	1930.2	1918.6	1930.2	1883.8	1779.5	1652.0	1599.8	1605.6
67.5°	2063.5	1982.4	1779.5	1727.3	1692.5	1686.7	1599.8	1501.3	1443.3	1396.9	1391.1
70°	1808.5	1744.7	1594.0	1524.4	1489.7	1408.5	1321.6	1257.8	1176.7	1153.5	1176.7
72.5°	1431.7	1425.9	1367.9	1292.6	1217.2	1153.5	1078.1	991.2	915.8	898.4	857.9
75°	991.2	1002.8	1014.4	1002.8	939.0	857.9	770.9	701.4	608.6	556.5	544.9
77.5°	649.2	666.6	684.0	660.8	620.2	544.9	486.9	400.0	330.4	289.8	284.0
80°	475.3	498.5	510.1	492.7	446.3	388.4	324.6	255.0	202.9	168.1	168.1
82.5°	365.2	388.4	400.0	371.0	324.6	278.2	231.9	179.7	139.1	110.1	104.3
85°	127.5	121.7	144.9	150.7	179.7	168.1	139.1	104.3	81.1	58.0	52.2
87.5°	34.8	34.8	40.6	40.6	34.8	29.0	29.0	29.0	23.2	17.4	17.4
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)