

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: P533078

Luminaire Tested: **GALN-SA8C-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533078  
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-SA8C-727-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1050mA 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: 41721 lumens  
Efficiency: N/A  
Efficacy: 97.3 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

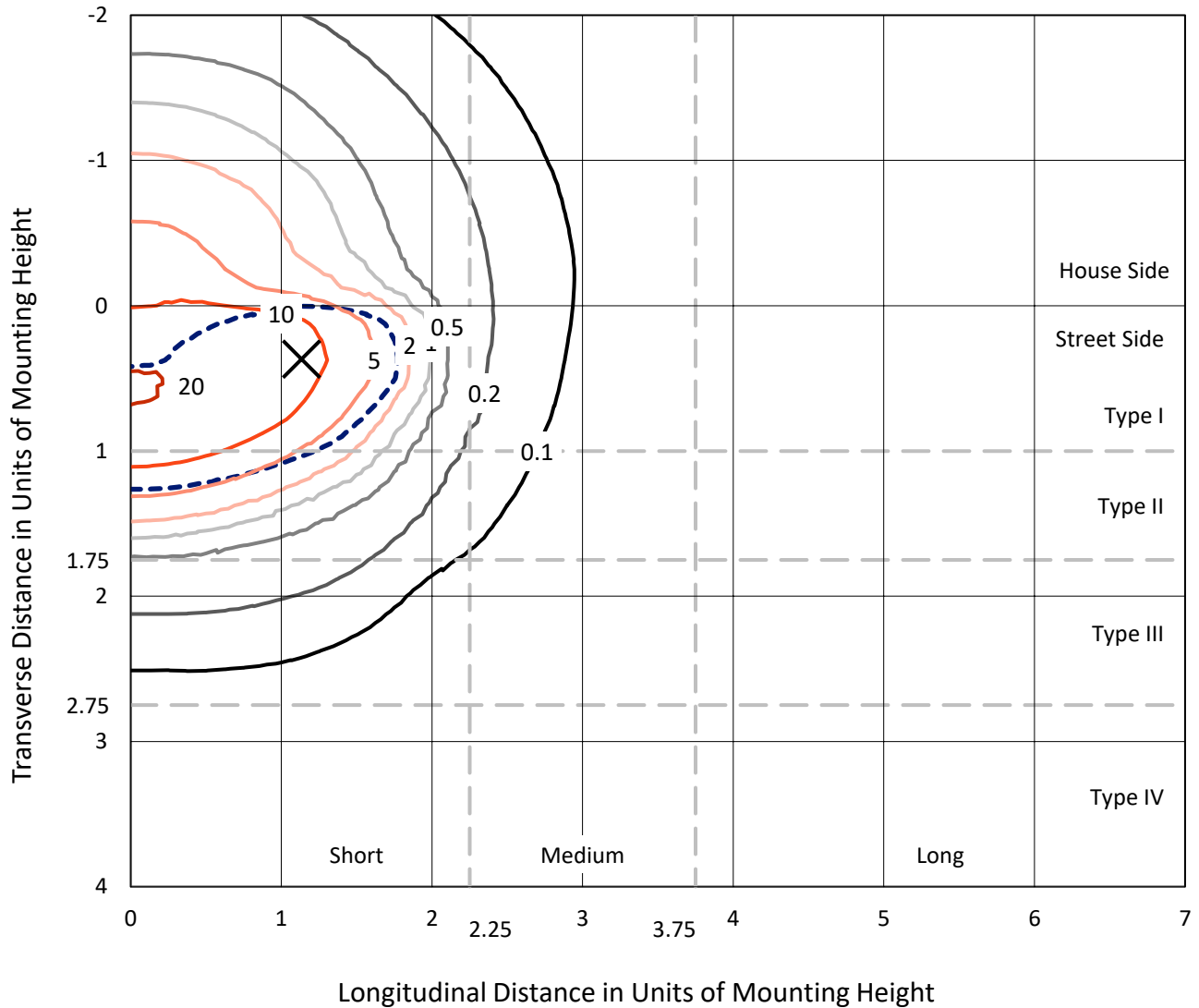
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P533078  
 CATALOG NUMBER: GALN-SA8C-727-U-T2R-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

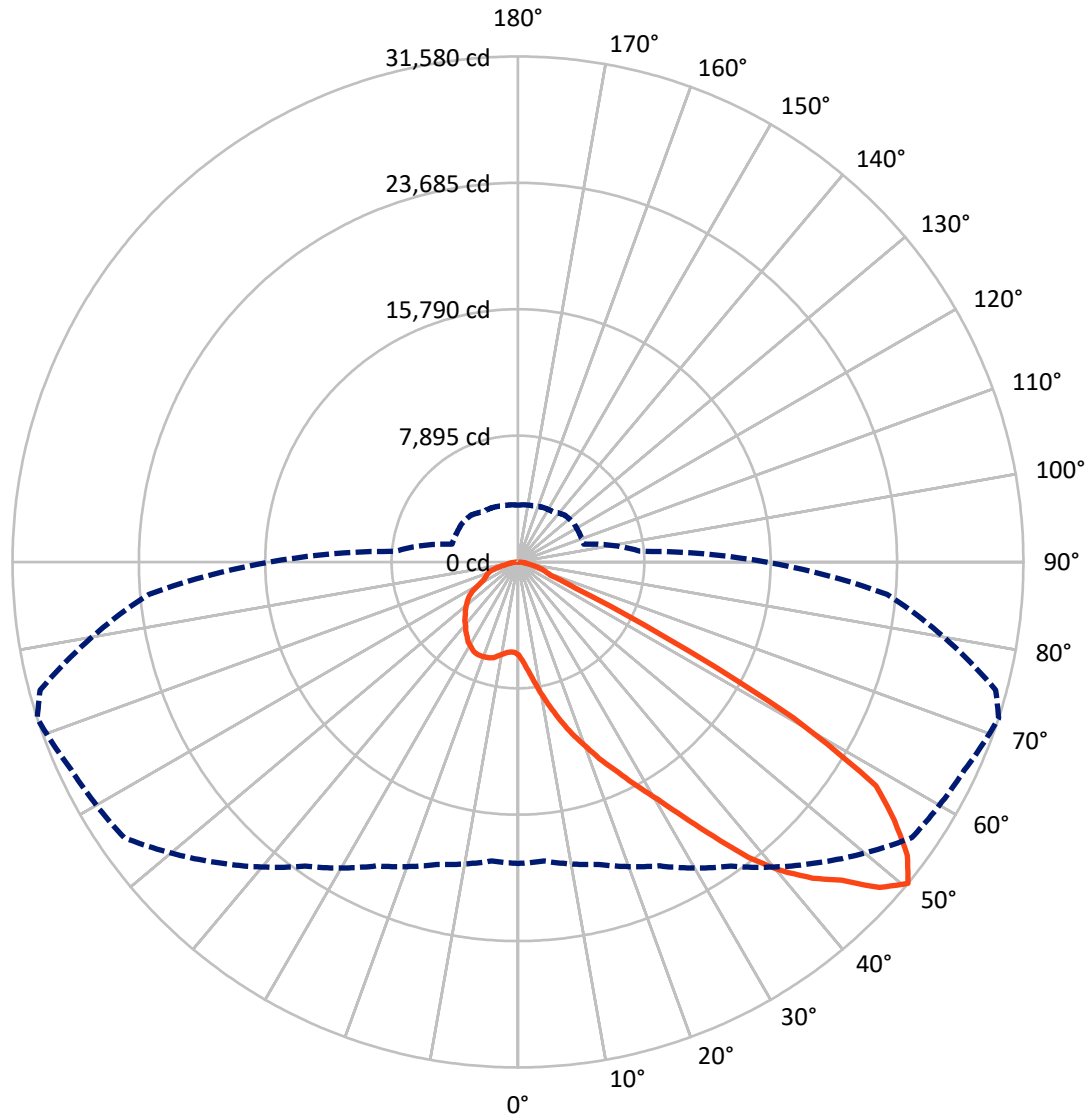
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.8 fc  
 Type II - Short - N/A

REPORT NUMBER: P533078  
CATALOG NUMBER: GALN-SA8C-727-U-T2R-GRSWH

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P533078  
 CATALOG NUMBER: GALN-SA8C-727-U-T2R-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9558.5	0.0	9558.5
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	32162.5	0.0	32162.5
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	41721.0	0.0	41721.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	683.2	1.6
10°-20°	2553.9	6.1
20°-30°	4951.8	11.9
30°-40°	8203.4	19.7
40°-50°	11478.3	27.5
50°-60°	9683.4	23.2
60°-70°	2951.5	7.1
70°-80°	1035.5	2.5
80°-90°	180.0	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°	41721.0	100.0
0°-180°	41721.0	100.0

**Coefficient of Utilization**

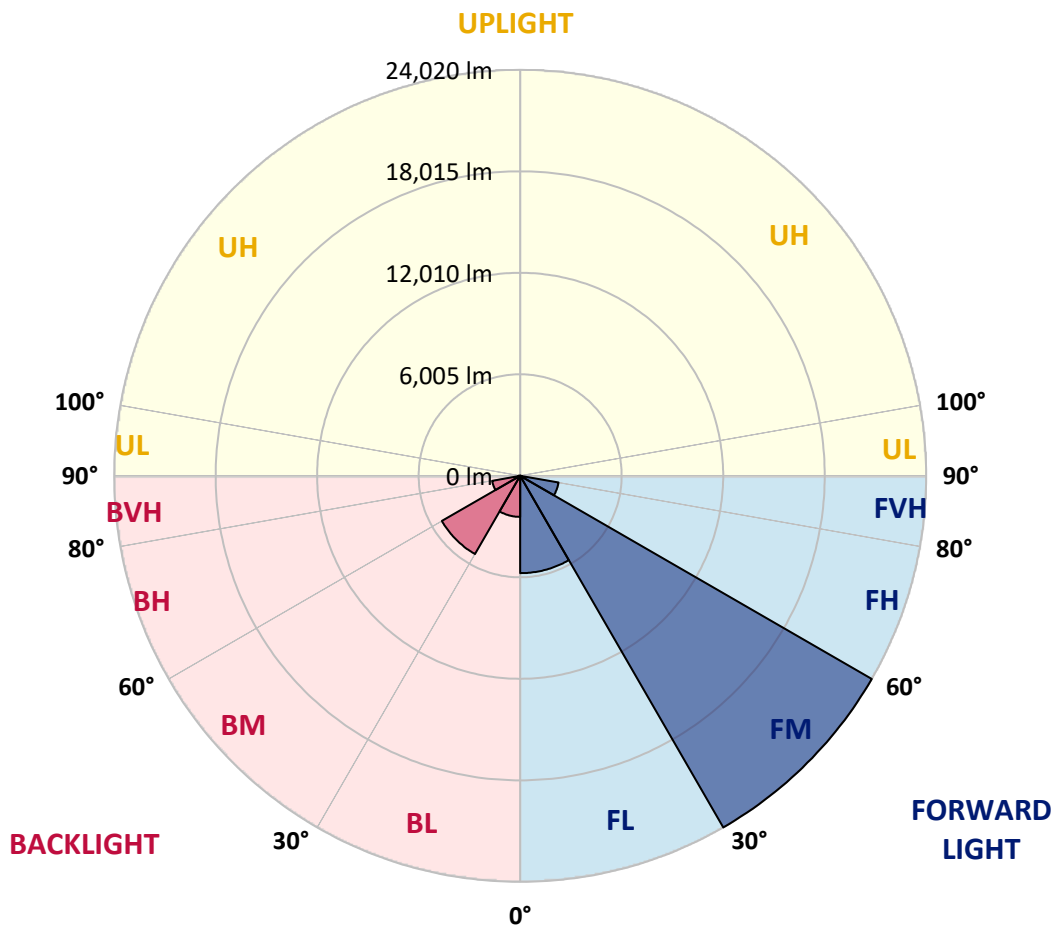


REPORT NUMBER: P533078  
 CATALOG NUMBER: GALN-SA8C-727-U-T2R-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5759.0	13.8			
FM (30°-60°)	24019.9	57.6			
FH (60°-80°)	2302.9	5.5			G2/5000
FVH (80°-90°)	80.6	0.2			G1/100
BL (0°-30°)	2429.8	5.8	B3/2500		
BM (30°-60°)	5345.3	12.8	B4/8500		
BH (60°-80°)	1684.0	4.0	B3/2500		G3/2500
BVH (80°-90°)	99.4	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





REPORT NUMBER: P533078

CATALOG NUMBER: GALN-SA8C-727-U-T2R-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5807.9	5807.9	5807.9	5807.9	5807.9	5807.9	5807.9	5807.9	5807.9	5807.9	5807.9
2.5°	7470.3	7423.8	7284.4	7238.0	7072.8	6773.3	6670.1	6365.5	6236.4	6117.7	5978.3
5°	9447.5	9230.7	9215.2	8951.9	8569.9	8347.9	7687.1	7243.1	6835.3	6628.8	6246.7
7.5°	10707.2	10712.4	10712.4	10495.6	10191.0	9628.2	9034.5	8234.3	7620.0	7315.4	6664.9
10°	11904.9	11801.7	11744.9	11724.3	11517.7	10970.5	10335.5	9344.3	8502.8	8146.6	6979.8
12.5°	12751.6	12663.8	12792.9	12725.8	12576.1	12219.9	11621.0	10490.4	9437.2	8957.1	7485.8
15°	13154.3	13216.2	13319.5	13505.3	13438.2	13304.0	12643.2	11667.5	10443.9	9901.9	7934.9
17.5°	13773.8	13603.4	13727.3	13959.7	14145.5	14083.6	13706.7	12519.3	11440.3	10774.3	8538.9
20°	14207.5	14109.4	14171.3	14439.8	14579.2	14930.2	14734.0	13634.4	12395.4	11693.3	9251.4
22.5°	15446.5	15301.9	15100.6	15141.9	15193.5	15441.3	15487.8	14857.9	13505.3	12761.9	9927.7
25°	16974.6	16840.4	16602.9	16360.3	16210.5	16164.1	16324.1	15818.2	14568.8	13799.6	10655.6
27.5°	18657.6	18430.5	18280.7	17780.0	17377.3	17315.3	17237.9	16964.3	15828.5	14997.3	11476.4
30°	20294.2	20113.5	19912.1	19111.9	18693.8	18626.6	18244.6	18322.0	17196.6	16272.5	12405.7
32.5°	21533.2	21548.7	21089.2	20485.2	20092.8	19736.6	19597.2	19819.2	18951.9	18208.5	13443.4
35°	22534.7	22581.2	22142.4	21595.1	21171.8	21419.6	21357.7	21460.9	21047.9	20139.3	14651.4
37.5°	23510.5	23278.1	22808.3	22545.1	22323.1	22730.9	23257.5	23345.3	23422.7	22354.0	16055.7
40°	23670.5	23691.1	23417.5	23603.4	23324.6	23939.0	25162.5	25048.9	25363.8	24429.4	17578.6
42.5°	23443.3	23489.8	23598.2	23861.5	24532.6	25270.9	27088.1	26623.5	27005.5	26174.4	19060.3
45°	23071.6	22880.6	23014.8	24016.4	25178.0	26819.7	28848.6	28487.2	28363.3	27666.3	20825.9
47.5°	21295.7	21491.9	21910.1	23143.9	24888.9	27088.1	30097.9	30015.3	30387.0	29896.6	22431.5
50°	18833.1	18755.7	19561.1	20949.8	23200.7	26561.5	30030.8	30779.4	31579.6	30898.1	23149.1
52.5°	14104.2	14517.2	15209.0	16933.3	20144.4	23691.1	28564.6	29814.0	30464.5	30319.9	22570.9
55°	8915.8	9039.7	9457.9	11507.4	14398.5	19013.8	24486.2	27382.4	28544.0	29086.1	22039.1
57.5°	4331.4	4099.1	4610.2	6257.1	8316.9	12787.7	18884.8	23851.2	26375.7	27356.6	20882.7
60°	2261.2	2349.0	2550.3	3138.9	4300.4	6639.1	11770.7	15895.6	19752.1	21259.6	15828.5
62.5°	1874.0	1905.0	2039.2	2333.5	2860.1	3820.3	6009.3	7749.1	10072.2	11430.0	9003.6
65°	1590.1	1605.6	1750.1	1946.3	2281.9	2689.7	3092.4	3236.9	3918.4	4021.7	3200.8
67.5°	1326.8	1342.3	1497.2	1683.0	1899.8	2008.2	2111.5	2101.2	2178.6	2147.6	2142.5
70°	1022.2	1037.7	1197.7	1393.9	1502.3	1440.4	1760.4	1832.7	1863.7	1889.5	1930.8
72.5°	738.3	769.2	893.1	1032.5	975.7	1120.3	1450.7	1559.1	1600.4	1615.9	1667.5
75°	536.9	547.2	578.2	536.9	619.5	779.6	1022.2	1156.4	1208.0	1223.5	1301.0
77.5°	237.5	242.6	247.8	309.8	397.5	485.3	609.2	717.6	789.9	810.5	831.2
80°	123.9	129.1	160.0	211.7	283.9	356.2	444.0	505.9	552.4	557.6	578.2
82.5°	77.4	82.6	113.6	149.7	201.3	263.3	325.2	376.9	413.0	418.2	423.3
85°	36.1	46.5	67.1	92.9	134.2	170.4	175.5	149.7	160.0	165.2	154.9
87.5°	10.3	15.5	20.7	15.5	20.7	20.7	25.8	31.0	31.0	31.0	36.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P533078

CATALOG NUMBER: GALN-SA8C-727-U-T2R-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5807.9	5807.9	5807.9	5807.9	5807.9	5807.9	5807.9	5807.9	5807.9	5807.9	5807.9
2.5°	5900.8	5854.4	5673.7	5606.6	5431.0	5462.0	5369.1	5363.9	5343.3	5338.1	5333.0
5°	6045.4	5900.8	5684.0	5518.8	5420.7	5410.4	5343.3	5343.3	5363.9	5379.4	5343.3
7.5°	6282.9	6117.7	5751.1	5596.3	5508.5	5493.0	5446.5	5410.4	5456.9	5441.4	5400.1
10°	6556.5	6267.4	5880.2	5746.0	5601.4	5565.3	5565.3	5580.8	5503.3	5529.1	5487.8
12.5°	6861.1	6473.9	6045.4	5890.5	5720.2	5699.5	5689.2	5575.6	5616.9	5596.3	5493.0
15°	7248.3	6711.4	6257.1	5993.8	5849.2	5756.3	5622.1	5601.4	5575.6	5524.0	5477.5
17.5°	7666.5	6969.5	6355.2	6024.7	5807.9	5740.8	5637.6	5529.1	5451.7	5462.0	5425.9
20°	8022.7	7207.0	6391.3	6055.7	5776.9	5647.9	5487.8	5420.7	5338.1	5333.0	5327.8
22.5°	8446.0	7527.1	6442.9	5973.1	5684.0	5549.8	5441.4	5322.6	5265.8	5193.6	5229.7
25°	8951.9	7651.0	6453.2	5926.7	5616.9	5379.4	5322.6	5193.6	5172.9	5069.7	5090.3
27.5°	9318.5	7718.1	6370.6	5782.1	5462.0	5281.3	5178.1	5085.2	5049.0	4971.6	4950.9
30°	9808.9	7821.3	6195.1	5601.4	5307.1	5105.8	5043.9	5023.2	4920.0	4837.4	4827.0
32.5°	10366.5	7888.4	6081.5	5415.6	5147.1	4992.2	5023.2	4925.1	4796.1	4723.8	4703.1
35°	10810.5	7914.3	5797.6	5203.9	5038.7	4940.6	4904.5	4883.8	4698.0	4630.8	4579.2
37.5°	11486.8	7857.5	5560.1	5054.2	4920.0	4883.8	4852.8	4713.4	4501.8	4403.7	4331.4
40°	12276.7	7842.0	5255.5	4842.5	4806.4	4847.7	4754.7	4537.9	4243.7	4135.2	4083.6
42.5°	13035.6	7950.4	5064.5	4728.9	4682.5	4698.0	4568.9	4243.7	4099.1	4037.1	3954.5
45°	14305.5	8177.5	4749.6	4553.4	4532.8	4522.4	4367.6	4026.8	3944.2	3866.8	3851.3
47.5°	15451.6	8027.8	4548.2	4372.7	4393.4	4336.6	4006.2	3897.8	3804.8	3727.4	3701.6
50°	15518.8	7671.6	4264.3	4233.3	4238.5	4140.4	3825.5	3753.2	3634.5	3582.8	3546.7
52.5°	15167.7	7088.2	4001.0	4011.3	4026.8	3866.8	3603.5	3551.9	3453.8	3381.5	3360.8
55°	14181.6	6179.6	3742.9	3784.2	3825.5	3520.9	3438.3	3309.2	3231.8	3128.5	3133.7
57.5°	12493.5	4976.7	3381.5	3448.6	3536.4	3200.8	3138.9	2978.8	2865.2	2782.6	2772.3
60°	8373.7	3541.5	2839.4	2865.2	3061.4	2927.2	2922.0	2762.0	2607.1	2534.8	2493.5
62.5°	4940.6	2705.2	2452.2	2426.4	2421.3	2498.7	2627.8	2571.0	2369.6	2230.2	2271.5
65°	2586.5	2338.7	2281.9	2194.1	2142.5	2121.8	2219.9	2245.7	2111.5	1961.8	1951.5
67.5°	2173.5	2173.5	2127.0	2096.0	2023.7	1936.0	1874.0	1791.4	1770.8	1729.5	1677.8
70°	1977.3	2028.9	2013.4	1941.1	1879.2	1781.1	1621.1	1486.8	1357.8	1311.3	1342.3
72.5°	1724.3	1775.9	1775.9	1739.8	1657.2	1507.5	1352.6	1197.7	1089.3	1006.7	996.4
75°	1326.8	1352.6	1414.6	1373.3	1264.8	1171.9	1011.9	851.8	748.6	671.1	655.6
77.5°	846.7	888.0	888.0	882.8	805.4	717.6	614.3	500.8	423.3	366.5	351.1
80°	562.7	588.5	609.2	588.5	536.9	469.8	392.4	314.9	258.1	211.7	201.3
82.5°	413.0	444.0	459.5	438.8	387.2	335.6	278.8	222.0	165.2	129.1	118.7
85°	160.0	165.2	185.9	222.0	216.8	211.7	170.4	123.9	92.9	67.1	62.0
87.5°	41.3	36.1	41.3	41.3	36.1	31.0	31.0	31.0	31.0	15.5	20.7
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)