

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: P532140

Luminaire Tested: **GALN-SA7C-727-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532140  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-727-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34351 lumens  
Efficiency: N/A  
Efficacy: 91.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

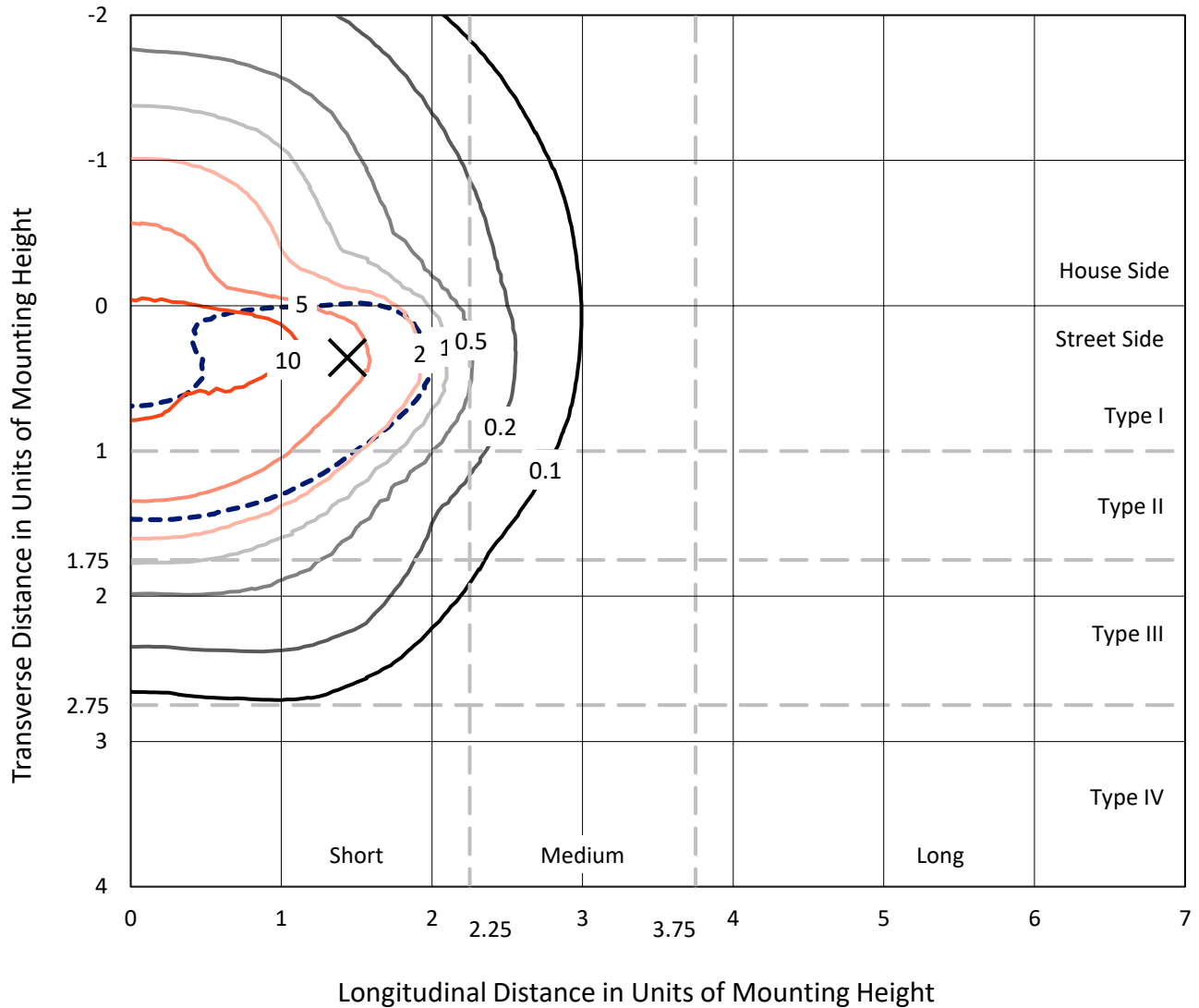
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

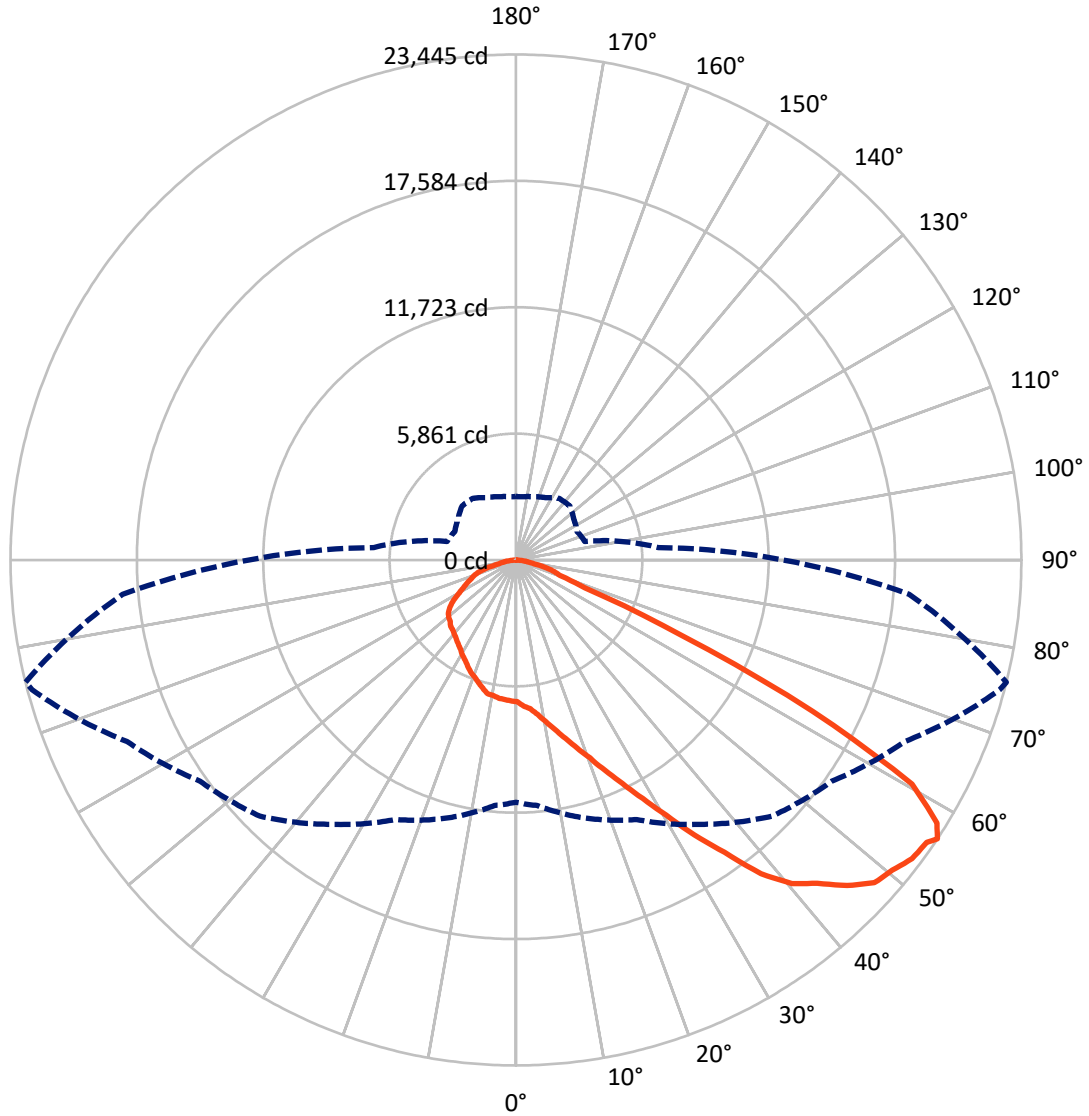
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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	9236.0	0.0	9236.0
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	25115.0	0.0	25115.0
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	34351.0	0.0	34351.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	651.8	1.9
10°-20°	2047.5	6.0
20°-30°	3580.9	10.4
30°-40°	5606.6	16.3
40°-50°	8156.0	23.7
50°-60°	8963.9	26.1
60°-70°	4001.1	11.6
70°-80°	1155.7	3.4
80°-90°	187.5	0.5
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°	34351.0	100.0
0°-180°	34351.0	100.0

**Coefficient of Utilization**

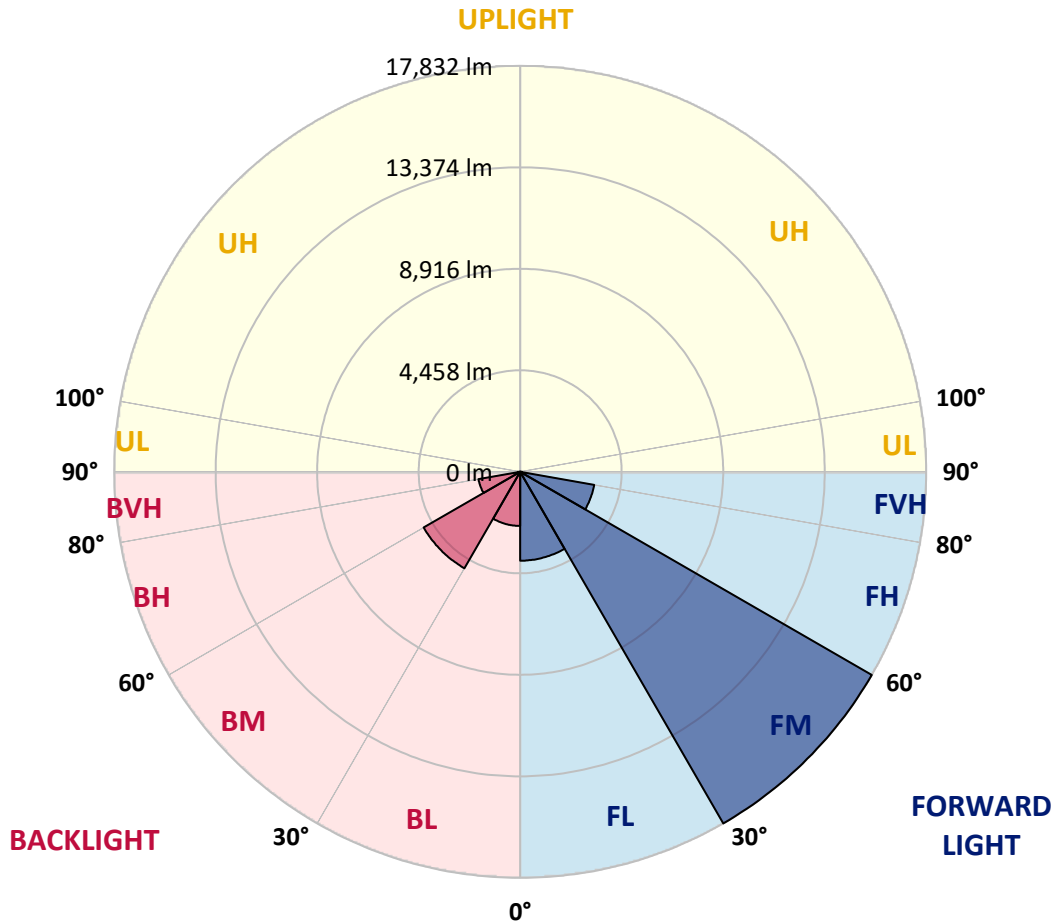


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3903.6	11.4			
FM (30°-60°)	17832.2	51.9			
FH (60°-80°)	3298.5	9.6			G2/5000
FVH (80°-90°)	80.7	0.2			G1/100
BL (0°-30°)	2376.6	6.9	B3/2500		
BM (30°-60°)	4894.3	14.2	B3/5000		
BH (60°-80°)	1858.3	5.4	B3/2500		G3/2500
BVH (80°-90°)	106.8	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6572.6	6572.6	6572.6	6572.6	6572.6	6572.6	6572.6	6572.6	6572.6	6572.6	6572.6
2.5°	7240.6	7124.8	7115.9	7084.7	7102.5	7022.4	6937.8	6826.4	6710.7	6781.9	6612.7
5°	7748.2	7592.4	7654.7	7547.8	7561.2	7454.3	7280.6	7151.5	7009.0	6924.4	6804.2
7.5°	7926.3	7939.7	7984.2	7966.4	7877.4	7877.4	7761.6	7534.5	7285.1	7236.1	7035.7
10°	8166.8	8171.2	8122.3	8135.6	8260.3	8202.4	8100.0	8002.0	7681.4	7623.5	7267.3
12.5°	8251.4	8171.2	8251.4	8322.7	8469.6	8549.8	8527.5	8456.2	8113.4	8073.3	7552.3
15°	8264.8	8215.8	8282.6	8442.9	8572.0	8910.4	9079.7	9030.7	8576.5	8580.9	7872.9
17.5°	8202.4	8269.2	8295.9	8434.0	8732.3	9048.5	9538.3	9605.1	9231.1	9173.2	8278.1
20°	8287.0	8238.0	8273.7	8398.4	8794.7	9289.0	9930.2	10371.0	9845.6	9805.5	8696.7
22.5°	8612.1	8545.3	8536.4	8616.5	8901.5	9413.6	10344.3	11136.9	10593.7	10615.9	9217.7
25°	8865.9	8901.5	8870.4	8865.9	9044.0	9600.7	10892.0	12049.8	11609.0	11479.8	9832.2
27.5°	9302.3	9386.9	9324.6	9409.2	9369.1	9881.2	11283.9	13060.6	12704.4	12530.7	10388.8
30°	9907.9	9952.4	9894.6	9894.6	9774.3	10273.1	11640.1	14116.0	13969.0	13733.0	11043.4
32.5°	10705.0	10771.8	10656.0	10589.2	10571.4	10856.4	12281.4	15158.0	15407.4	15207.0	11911.8
35°	11760.4	11720.3	11582.2	11519.9	11279.4	11751.5	13234.3	16355.9	17010.4	16654.2	12962.7
37.5°	12691.0	12628.7	12619.8	12272.5	12330.3	12717.8	14044.8	17264.3	18564.5	18462.1	14071.5
40°	13559.4	13617.3	13710.8	13514.8	13425.8	13853.3	14988.8	17958.9	19771.3	19731.2	14926.4
42.5°	14490.1	14436.6	14601.4	14436.6	14303.0	14908.6	16013.0	18439.9	20831.1	20501.6	15821.5
45°	15839.3	15670.1	15728.0	15741.3	15643.4	15866.0	16436.0	18787.2	21574.8	21539.1	16476.1
47.5°	16965.9	16970.4	16872.4	16796.7	16498.4	16721.0	16908.0	19005.4	22429.7	22371.9	16729.9
50°	17384.5	17326.6	17611.6	17776.4	17794.2	17340.0	17277.6	19125.6	22879.5	22625.7	16983.7
52.5°	15879.4	15932.8	16382.6	17362.2	17927.8	17976.7	17709.6	19375.0	23062.1	23008.6	17188.6
55°	12780.1	13038.4	13777.6	14908.6	16249.0	17722.9	18177.1	19633.3	23160.0	23115.5	18097.0
56°	11234.9	11435.3	12397.1	13283.3	14966.5	16801.2	17883.2	19909.3	23235.7	23445.0	18310.7
57.5°	9044.0	9275.6	9965.8	10972.2	12958.2	15046.7	17072.8	19570.9	22941.8	23022.0	18466.6
60°	5655.3	5677.6	6505.8	7169.3	8567.6	10607.0	13029.5	17028.3	21231.9	21116.1	16587.4
62.5°	3709.3	3713.8	4466.4	5009.6	5646.4	6114.0	7668.1	11292.8	15665.6	15460.8	11809.3
65°	2605.0	2662.9	3246.2	3972.1	4230.3	3985.4	3936.4	5953.7	8750.1	8456.2	6345.5
67.5°	1905.9	1910.3	2426.9	3206.2	3580.2	3032.5	2462.5	2907.8	3464.4	3455.5	2939.0
70°	1260.2	1313.6	1710.0	2395.7	2823.2	2435.8	2012.8	2079.5	2204.2	2204.2	2186.4
72.5°	734.7	783.7	1046.5	1518.5	1585.3	1522.9	1594.2	1781.2	1861.4	1856.9	1834.6
75°	418.6	440.8	498.7	632.3	788.2	930.7	1171.1	1349.3	1429.4	1478.4	1420.5
77.5°	244.9	258.3	293.9	360.7	409.7	503.2	636.8	761.5	868.3	855.0	863.9
80°	129.1	129.1	164.8	213.7	285.0	356.2	423.0	494.3	552.2	565.5	578.9
82.5°	75.7	80.2	106.9	155.9	204.8	253.8	325.1	374.1	427.5	431.9	440.8
85°	40.1	44.5	66.8	102.4	138.0	155.9	160.3	151.4	164.8	155.9	178.1
87.5°	13.4	13.4	22.3	17.8	17.8	22.3	26.7	26.7	35.6	35.6	35.6
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°	6572.6	6572.6	6572.6	6572.6	6572.6	6572.6	6572.6	6572.6	6572.6	6572.6	6572.6
2.5°	6608.2	6608.2	6532.5	6390.0	6367.8	6309.9	6256.5	6252.0	6211.9	6176.3	6158.5
5°	6732.9	6594.9	6483.6	6354.4	6203.0	6131.8	6051.6	5962.6	5926.9	5926.6	5958.1
7.5°	6875.4	6759.6	6425.7	6185.2	6011.5	5940.3	5851.2	5757.7	5766.6	5766.6	5704.3
10°	7013.5	6857.6	6323.3	6016.0	5762.2	5708.7	5659.8	5695.4	5739.9	5748.8	5708.7
12.5°	7245.0	6893.2	6274.3	5846.8	5686.5	5570.7	5601.9	5699.8	5793.3	5766.6	5797.8
15°	7418.7	6924.4	6051.6	5673.1	5472.7	5526.2	5637.5	5704.3	5860.1	5842.3	5873.5
17.5°	7587.9	6942.2	5833.4	5441.6	5357.0	5503.9	5588.5	5780.0	5829.0	5935.8	5975.9
20°	7935.2	6977.8	5610.8	5299.1	5272.3	5441.6	5588.5	5677.6	5784.4	5878.0	5878.0
22.5°	8113.4	6960.0	5463.8	5112.0	5196.6	5303.5	5437.1	5588.5	5588.5	5677.6	5682.0
25°	8336.0	6888.8	5232.3	5023.0	5085.3	5187.7	5339.1	5285.7	5343.6	5343.6	5414.8
27.5°	8589.8	6737.4	5031.9	4862.7	4987.4	5098.7	5120.9	5085.3	5018.5	5009.6	4982.9
30°	8794.7	6550.4	4884.9	4809.2	4911.7	4974.0	4902.7	4827.0	4711.3	4702.4	4640.0
32.5°	9075.2	6318.8	4702.4	4675.6	4791.4	4795.9	4773.6	4657.8	4488.6	4417.4	4346.1
35°	9547.2	6185.2	4564.3	4604.4	4640.0	4626.7	4586.6	4461.9	4292.7	4261.5	4234.8
37.5°	9894.6	6087.2	4421.8	4470.8	4502.0	4519.8	4399.6	4261.5	4266.0	4203.6	4185.8
40°	10286.4	6024.9	4306.0	4328.3	4332.8	4390.7	4243.7	4176.9	4208.1	4168.0	4194.7
42.5°	10789.6	6042.7	4185.8	4168.0	4252.6	4230.3	4159.1	4070.0	4087.9	3967.6	3985.4
45°	11056.8	6162.9	4114.6	4034.4	4127.9	4123.5	4030.0	3945.4	3838.5	3606.9	3615.8
47.5°	11234.9	6194.1	3945.4	3891.9	3989.9	4047.8	3940.9	3745.0	3593.6	3428.8	3388.7
50°	11417.5	6252.0	3865.2	3753.9	3794.0	3932.0	3798.4	3611.4	3464.4	3317.5	3339.7
52.5°	11577.8	6363.3	3709.3	3544.6	3615.8	3767.2	3696.0	3468.9	3308.6	3188.3	3152.7
55°	12290.3	6612.7	3446.6	3232.9	3402.1	3593.6	3553.5	3277.4	3103.7	3041.4	3032.5
56°	12401.6	6621.6	3308.6	3126.0	3281.9	3535.7	3486.7	3192.8	3036.9	2939.0	2943.4
57.5°	12419.4	6514.7	3112.6	3028.0	3161.6	3451.1	3388.7	3126.0	2912.3	2823.2	2796.5
60°	10927.7	5085.3	2867.7	2814.3	2970.1	3192.8	3170.5	2943.4	2703.0	2600.5	2649.5
62.5°	7449.9	3727.2	2676.3	2667.3	2747.5	2965.7	2907.8	2703.0	2502.6	2435.8	2404.6
65°	4337.2	2827.7	2489.2	2453.6	2520.4	2636.2	2676.3	2462.5	2253.2	2208.7	2195.3
67.5°	2560.5	2337.8	2248.8	2190.9	2168.6	2239.9	2271.0	2146.3	1937.1	1874.7	1928.1
70°	2141.9	2079.5	2084.0	1986.0	1932.6	1883.6	1856.9	1745.6	1571.9	1491.8	1469.5
72.5°	1848.0	1821.3	1803.5	1714.4	1665.4	1554.1	1438.3	1327.0	1197.9	1131.1	1135.5
75°	1411.6	1402.7	1411.6	1367.1	1282.5	1193.4	1086.5	944.0	846.1	761.5	779.3
77.5°	841.6	868.3	881.7	863.9	828.3	748.1	681.3	587.8	494.3	427.5	418.6
80°	578.9	601.2	623.4	601.2	565.5	507.6	436.4	365.1	298.4	262.7	253.8
82.5°	440.8	463.1	476.5	454.2	409.7	347.3	298.4	249.4	195.9	160.3	151.4
85°	160.3	182.6	178.1	213.7	231.6	222.6	191.5	146.9	111.3	80.2	75.7
87.5°	44.5	40.1	44.5	44.5	44.5	40.1	35.6	35.6	35.6	22.3	17.8
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)