

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: P457404

Luminaire Tested: **GALN-SA8D-727-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457404  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-727-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51807 lumens  
Efficiency: N/A  
Efficacy: 105.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5

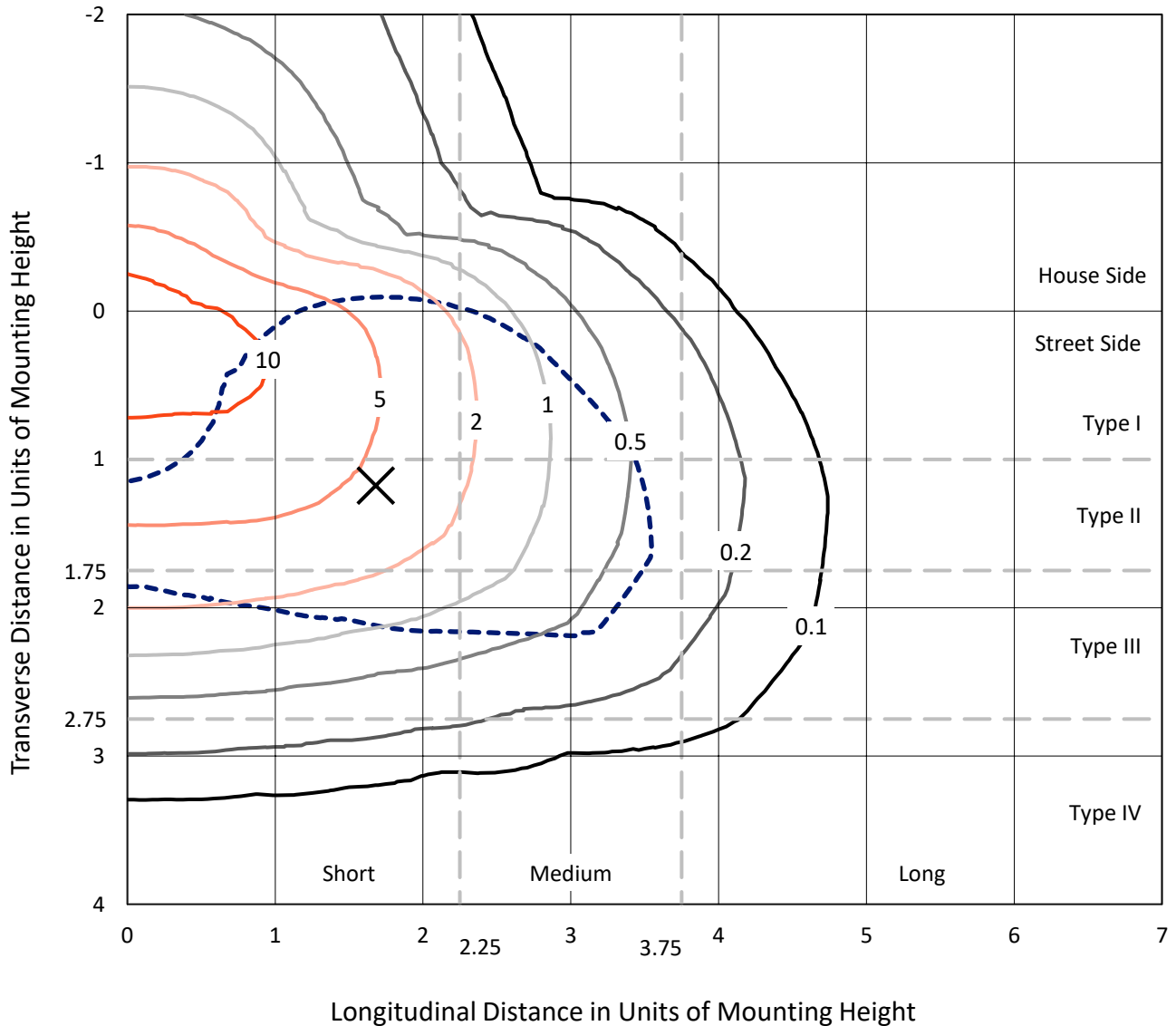
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

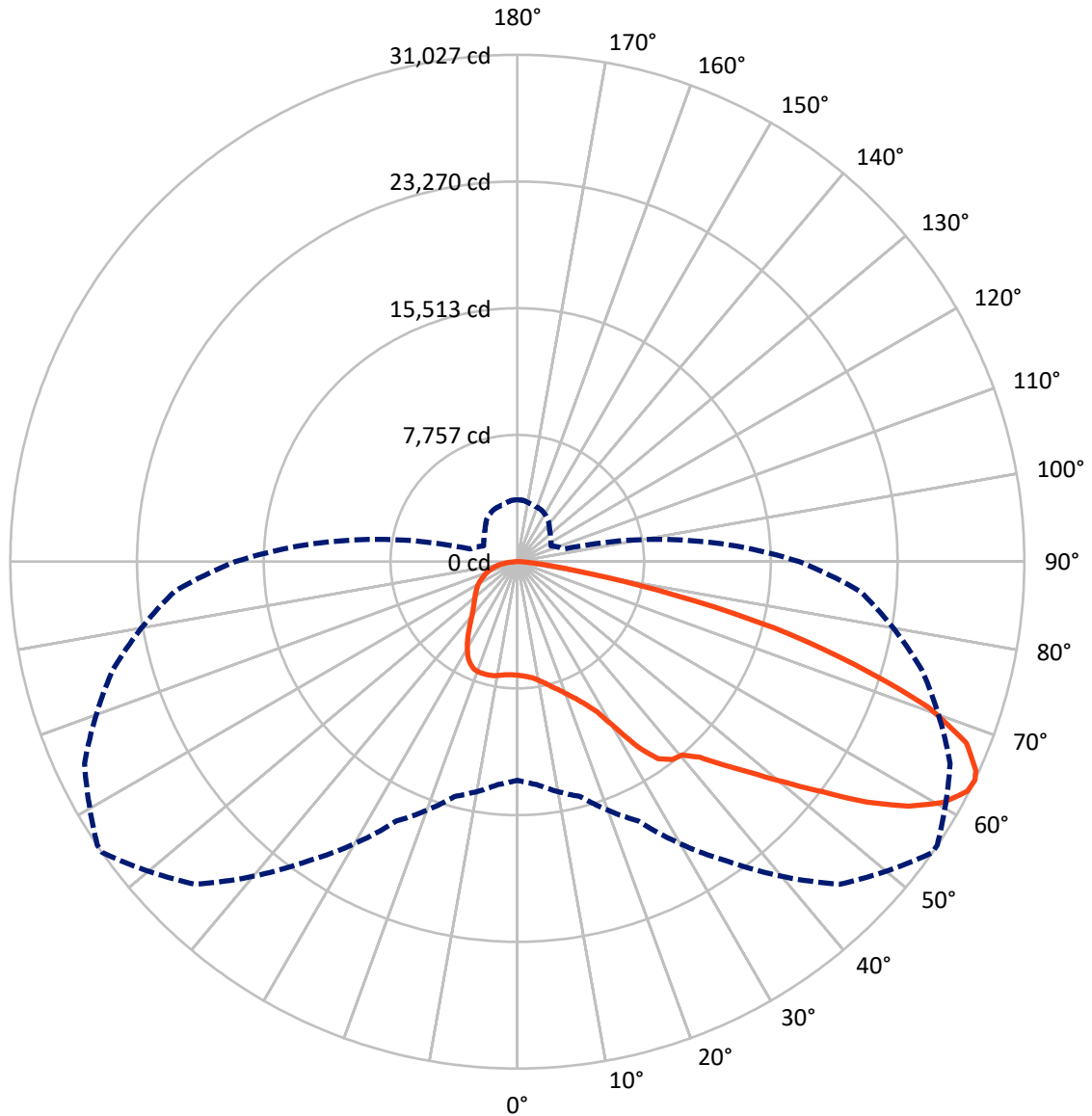
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12584.9	0.0	12584.9
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	39222.1	0.0	39222.1
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	51807.0	0.0	51807.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	676.1	1.3
10°-20°	2133.4	4.1
20°-30°	3798.1	7.3
30°-40°	5843.7	11.3
40°-50°	8284.0	16.0
50°-60°	11990.8	23.1
60°-70°	12409.2	24.0
70°-80°	5811.3	11.2
80°-90°	860.3	1.7
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°	51807.0	100.0
0°-180°	51807.0	100.0

**Coefficient of Utilization**



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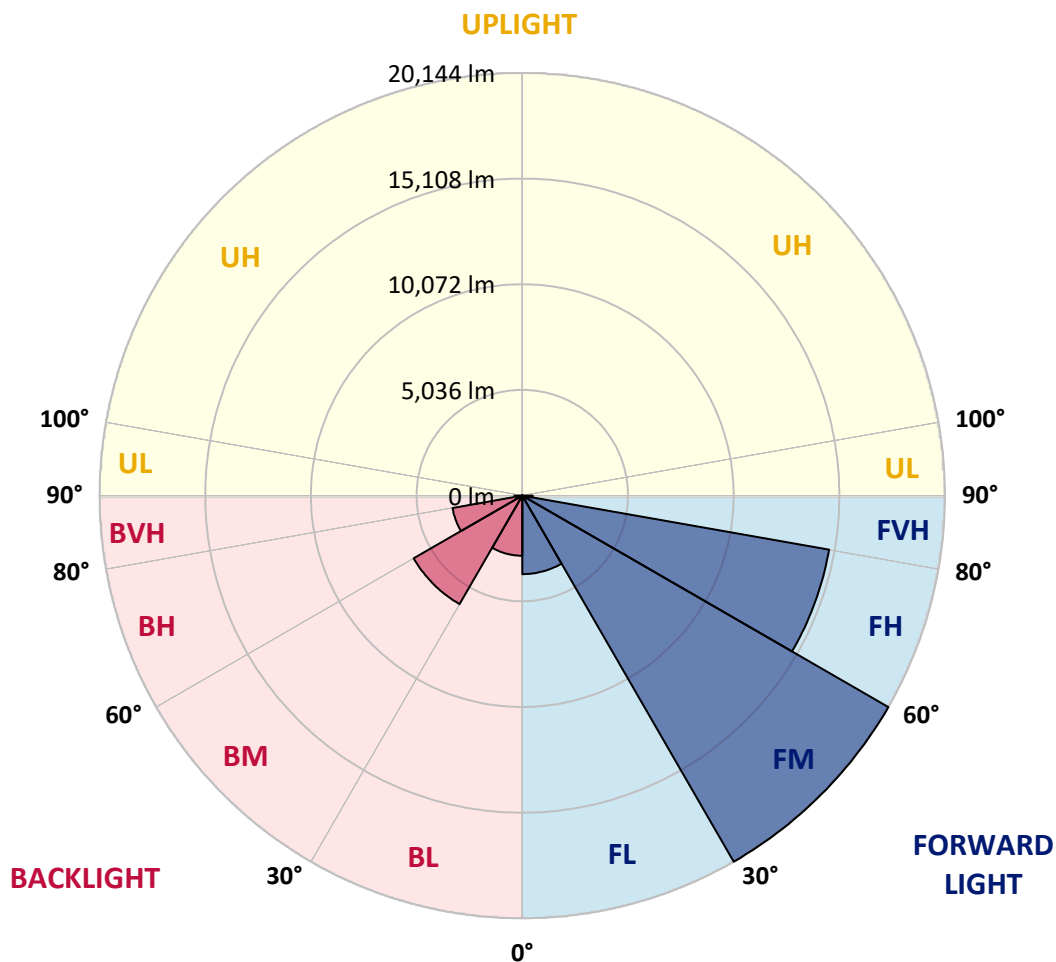
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3741.3	7.2			
FM	(30°-60°)	20144.0	38.9			
FH	(60°-80°)	14844.2	28.7			G5
FVH	(80°-90°)	492.6	1.0			G3/500
BL	(0°-30°)	2866.4	5.5	B4/5000		
BM	(30°-60°)	5974.6	11.5	B4/8500		
BH	(60°-80°)	3376.3	6.5	B4/5000		G4/5000
BVH	(80°-90°)	367.7	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6950.9	6950.9	6950.9	6950.9	6950.9	6950.9	6950.9	6950.9	6950.9	6950.9	6950.9
2.5°	7028.9	7026.0	7034.7	7026.0	7031.8	7011.6	7002.9	7008.7	7000.0	6985.6	6959.6
5°	7115.5	7112.7	7115.5	7104.0	7109.8	7098.2	7078.0	7083.8	7069.3	7037.6	7000.0
7.5°	7262.8	7251.3	7251.3	7248.4	7236.8	7219.5	7205.1	7199.3	7184.8	7144.4	7086.7
10°	7453.4	7453.4	7456.3	7433.2	7447.6	7415.9	7401.4	7398.5	7349.5	7297.5	7216.6
12.5°	7704.7	7719.1	7710.4	7698.9	7693.1	7681.5	7632.5	7644.0	7589.1	7499.6	7401.4
15°	8016.5	8039.6	8025.2	8019.4	8005.0	7961.7	7941.5	7932.8	7860.6	7730.6	7600.7
17.5°	8429.5	8400.6	8389.1	8374.6	8314.0	8282.2	8247.6	8241.8	8178.3	8025.2	7823.1
20°	8790.5	8830.9	8807.8	8793.4	8732.7	8672.1	8646.1	8637.4	8582.5	8415.1	8091.6
22.5°	9220.7	9229.4	9238.1	9203.4	9174.5	9128.3	9082.1	9067.7	9047.5	8874.2	8478.6
25°	9679.9	9714.6	9685.7	9651.0	9616.4	9613.5	9656.8	9651.0	9642.4	9474.9	8992.6
27.5°	10427.8	10459.6	10468.3	10430.7	10297.9	10309.4	10407.6	10439.4	10572.2	10295.0	9653.9
30°	10849.5	10881.2	10953.4	11094.9	11305.7	11490.6	11727.4	11799.6	11926.6	11403.9	10439.4
32.5°	11109.4	11120.9	11250.9	11513.7	12146.1	12836.3	13480.3	13506.2	13587.1	12853.6	11158.5
35°	11519.4	11528.1	11632.1	11920.8	12663.0	13812.3	14808.6	14840.4	14774.0	13304.1	11493.4
37.5°	12024.8	12047.9	12114.3	12354.0	13240.6	14629.6	15360.2	15337.1	14748.0	13662.2	12085.4
40°	12761.2	12761.2	12683.2	13006.7	13849.9	15097.4	15553.7	15513.3	15357.3	14698.9	12986.4
42.5°	13410.9	13399.4	13584.2	13803.7	14612.3	15819.4	16365.2	16431.6	16688.6	16001.3	14011.6
45°	14257.1	14309.1	14413.0	14811.5	15908.9	17052.5	17757.1	17820.6	18184.5	17534.7	15210.0
47.5°	15111.9	15129.2	15455.5	15986.9	17514.5	18724.5	19302.1	19406.0	19738.1	19328.0	16500.9
50°	15718.3	15882.9	16405.6	17243.1	19169.2	20763.3	21213.8	21338.0	21924.2	21280.2	18005.4
52.5°	16359.4	16521.1	17159.3	18435.7	21069.4	22848.3	23402.7	23486.5	24095.8	23255.5	19544.6
55°	16908.1	17058.2	17783.1	19492.7	22582.6	24976.6	25981.5	25883.4	26175.0	24777.3	20731.5
57.5°	16997.6	17118.9	18031.4	20168.4	23720.4	26801.7	28242.7	28300.4	27962.6	25915.1	21710.5
60°	16304.5	16552.9	17601.1	20096.2	24231.5	28072.3	29929.2	29969.6	29010.8	26498.5	22100.3
62.5°	15077.2	15051.2	16319.0	18935.3	23515.4	28361.1	30922.6	30879.3	29420.9	26218.3	21722.0
64°	13382.1	13693.9	14877.9	17508.7	22360.2	27916.4	31026.5	31003.4	29224.5	25635.0	21078.1
65°	12348.2	12330.9	13500.5	16342.1	21210.9	27246.4	30841.7	30809.9	28814.5	25112.3	20578.5
67.5°	8914.6	8955.1	10110.2	12611.0	17243.1	24627.2	29637.5	29519.1	27197.3	23379.6	18678.3
70°	5400.2	5423.3	6330.1	8366.0	12377.1	19908.5	26715.0	26720.8	24722.5	20792.2	15897.3
72.5°	2844.5	2905.1	3269.0	4750.4	7516.9	13968.3	21672.9	22187.0	21225.3	17745.5	12559.0
75°	1582.5	1591.2	1848.2	2342.0	3835.0	7817.3	16290.1	16437.4	16804.1	14283.1	9287.2
77.5°	1207.1	1224.4	1305.3	1513.2	2087.9	3624.2	9859.0	10598.2	11842.9	10069.8	5299.1
80°	979.0	996.3	1065.6	1189.8	1389.0	1718.2	4580.1	4978.6	6338.7	4470.3	2067.7
82.5°	762.4	750.8	840.3	921.2	1010.7	1016.5	1880.0	2079.2	2581.7	1923.3	895.2
85°	566.0	566.0	638.2	620.9	652.6	594.9	828.8	915.4	1033.8	817.2	415.8
87.5°	225.2	248.4	418.7	375.4	291.7	233.9	306.1	323.4	358.1	320.5	173.3
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°	6950.9	6950.9	6950.9	6950.9	6950.9	6950.9	6950.9	6950.9	6950.9	6950.9	6950.9
2.5°	6962.5	6971.2	6950.9	6936.5	6930.7	6922.1	6913.4	6916.3	6927.8	6939.4	6936.5
5°	6997.1	7000.0	6965.4	6948.0	6936.5	6924.9	6924.9	6933.6	6956.7	6974.0	6974.0
7.5°	7083.8	7083.8	7034.7	7002.9	6985.6	6965.4	6959.6	6962.5	6979.8	7002.9	7005.8
10°	7219.5	7207.9	7144.4	7095.3	7063.6	7014.5	6971.2	6948.0	6956.7	6971.2	6971.2
12.5°	7384.1	7352.3	7271.5	7205.1	7127.1	7034.7	6945.2	6899.0	6896.1	6910.5	6904.7
15°	7560.3	7525.6	7413.0	7291.7	7156.0	7020.2	6913.4	6847.0	6795.0	6780.6	6812.3
17.5°	7765.3	7693.1	7537.2	7369.7	7167.5	6991.4	6823.9	6688.1	6595.7	6569.7	6578.4
20°	8013.6	7918.3	7707.5	7444.7	7158.9	6887.4	6627.5	6445.6	6295.4	6249.2	6255.0
22.5°	8357.3	8192.7	7883.7	7482.3	7086.7	6691.0	6330.1	6093.3	5911.3	5839.1	5882.4
25°	8747.1	8568.1	8051.2	7473.6	6899.0	6376.3	5977.7	5668.8	5504.1	5397.3	5420.4
27.5°	9284.3	8966.6	8230.2	7395.7	6630.4	5992.2	5530.1	5238.5	5088.3	5033.4	5059.4
30°	9971.6	9483.5	8423.7	7184.8	6205.9	5507.0	5079.6	4889.0	4799.5	4730.2	4753.3
32.5°	10468.3	9847.4	8467.0	6829.6	5746.7	5065.2	4773.5	4632.0	4533.8	4467.4	4481.9
35°	10823.5	10156.4	8446.8	6393.6	5267.3	4701.3	4531.0	4415.4	4256.6	4112.2	4086.2
37.5°	11300.0	10543.4	8299.5	5917.1	4793.7	4455.9	4334.6	4120.9	3892.8	3699.3	3690.6
40°	12030.6	10996.7	7984.8	5356.9	4389.5	4273.9	4126.7	3849.4	3604.0	3448.0	3436.5
42.5°	12784.3	11415.5	7557.4	4767.8	4057.4	4083.3	3904.3	3630.0	3479.8	3378.7	3367.2
45°	13705.5	11868.9	7095.3	4256.6	3811.9	3904.3	3710.8	3552.0	3462.5	3396.1	3378.7
47.5°	14701.8	12333.8	6575.5	3797.5	3604.0	3739.7	3630.0	3557.8	3508.7	3462.5	3442.3
50°	15776.1	12853.6	6087.5	3427.8	3416.3	3569.3	3621.3	3595.3	3566.4	3552.0	3534.7
52.5°	16954.3	13385.0	5677.4	3167.9	3251.7	3448.0	3624.2	3644.4	3644.4	3635.7	3624.2
55°	17751.3	13754.6	5261.6	2957.1	3084.2	3349.8	3618.4	3696.4	3725.3	3713.7	3702.2
57.5°	18340.4	13956.7	4738.9	2775.2	2942.7	3254.6	3586.6	3702.2	3731.0	3745.5	3739.7
60°	18461.7	13769.0	4054.5	2584.6	2789.6	3115.9	3471.1	3615.5	3653.1	3742.6	3751.3
62.5°	17915.9	13191.5	3373.0	2396.9	2601.9	2905.1	3315.2	3517.3	3592.4	3731.0	3745.5
64°	17245.9	12544.6	2994.6	2278.5	2480.6	2786.7	3237.2	3491.4	3589.5	3774.4	3785.9
65°	16755.0	12073.9	2757.8	2203.4	2402.6	2708.8	3193.9	3500.0	3615.5	3840.8	3858.1
67.5°	14947.3	10453.8	2281.4	2027.2	2217.8	2575.9	3202.6	3572.2	3609.8	3866.8	3863.9
70°	12368.4	8322.6	1911.7	1865.5	2038.8	2469.1	3167.9	3456.7	3459.6	3630.0	3589.5
72.5°	9261.2	6151.0	1657.6	1698.0	1839.5	2214.9	2991.8	3300.8	3251.7	3274.8	3234.3
75°	6361.8	4068.9	1426.6	1519.0	1631.6	1957.9	2743.4	2997.5	2919.6	2890.7	2861.8
77.5°	3396.1	2249.6	1186.9	1342.8	1417.9	1692.3	2394.0	2639.4	2558.6	2446.0	2408.4
80°	1374.6	1059.8	955.9	1111.8	1155.1	1363.0	1992.6	2145.6	2085.0	1888.6	1825.1
82.5°	690.2	635.3	750.8	875.0	877.9	973.2	1481.4	1625.8	1490.1	1250.4	1195.5
85°	361.0	372.5	516.9	615.1	542.9	525.6	889.4	984.7	903.9	785.5	707.5
87.5°	130.0	150.2	271.5	268.6	190.6	101.1	196.4	95.3	52.0	31.8	40.4
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)