

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: P531510

Luminaire Tested: **GALN-SA6D-740-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531510  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-740-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38809 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

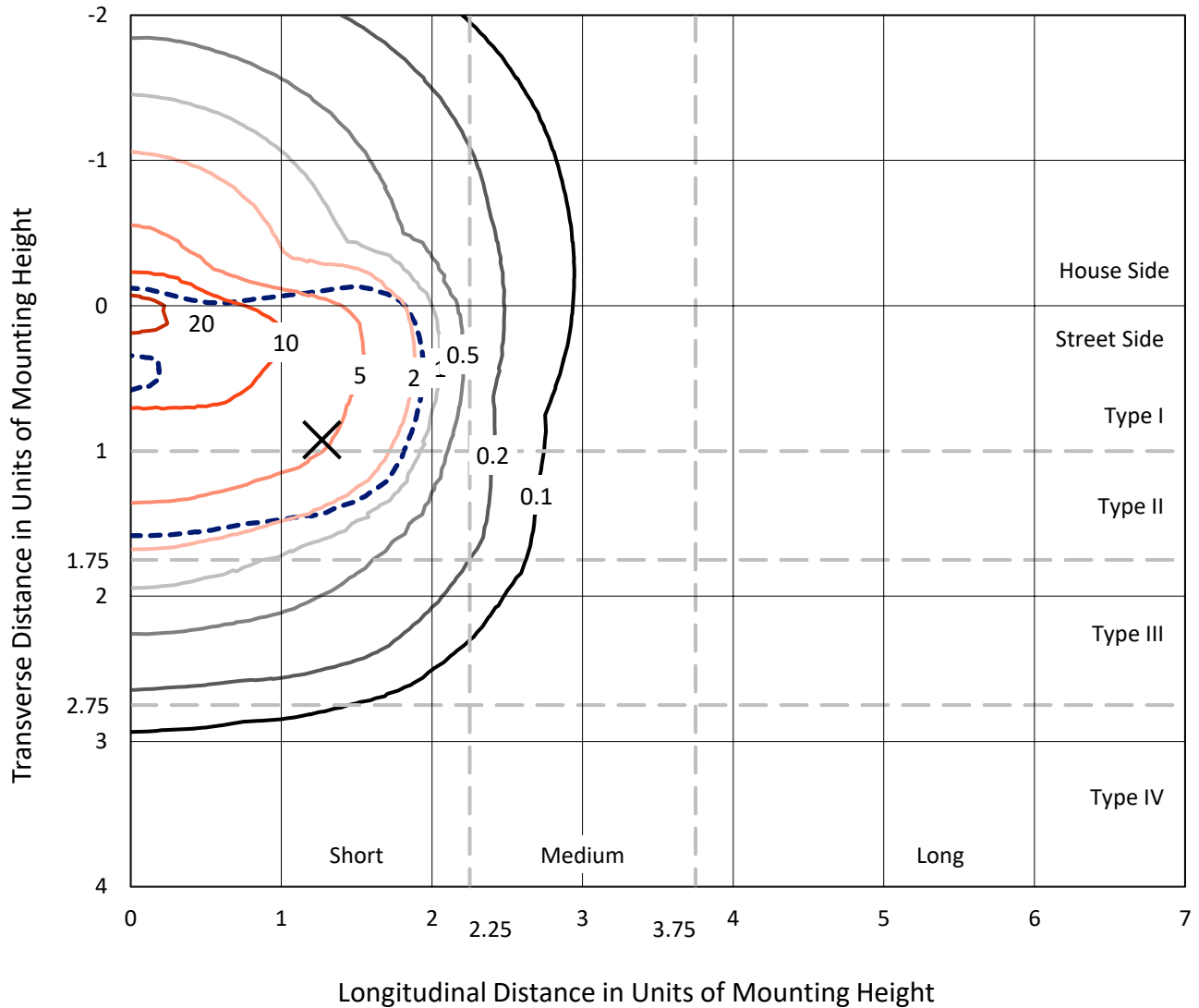
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

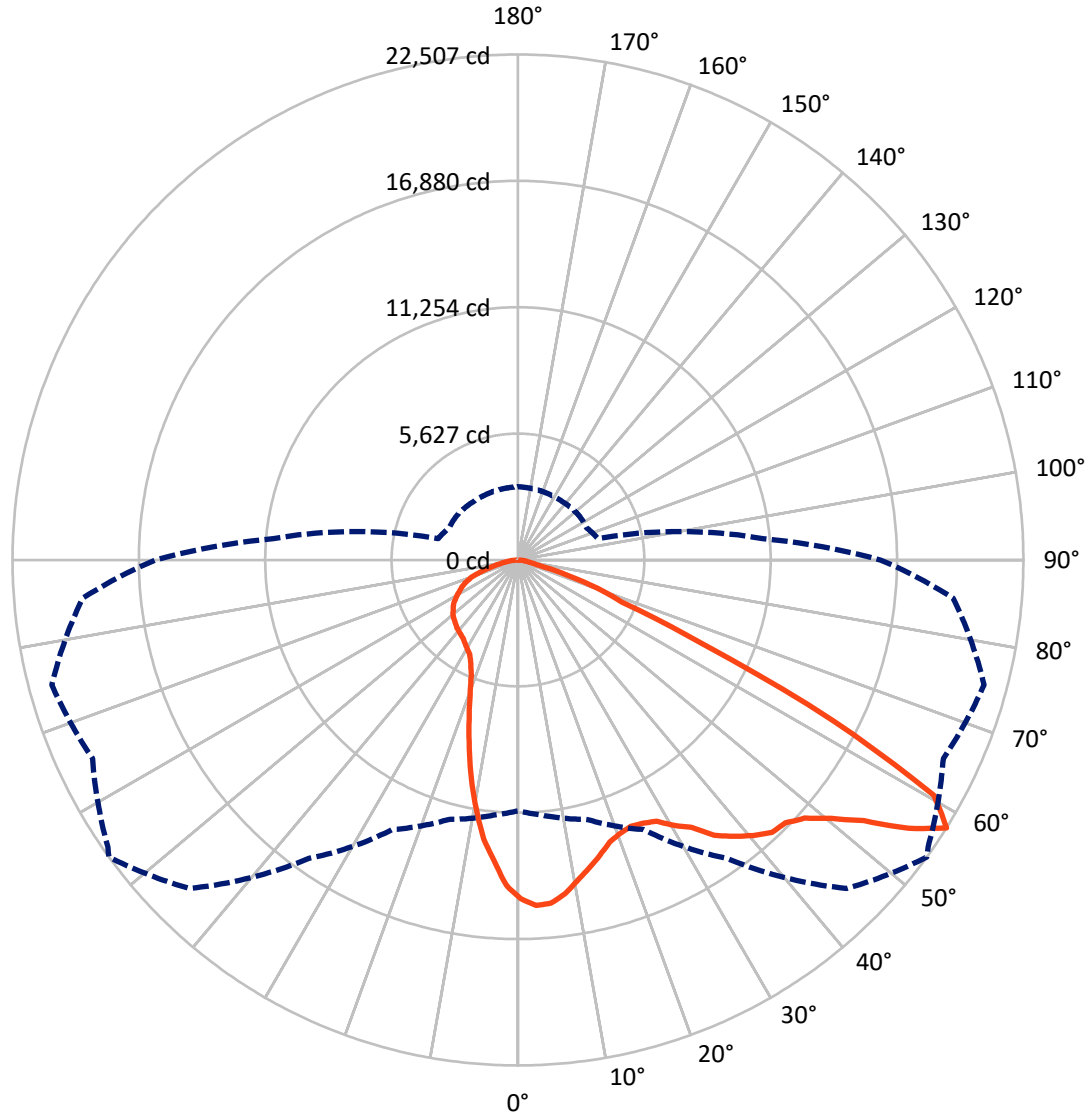
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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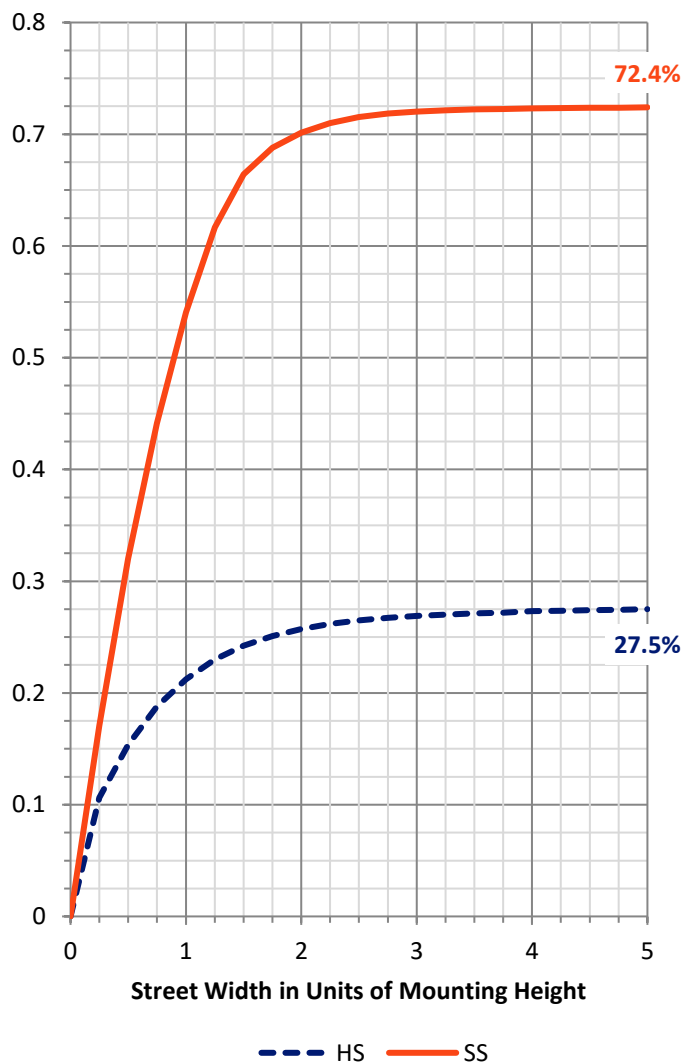
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10736.7	0.0	10736.7
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	28072.3	0.0	28072.3
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	38809.0	0.0	38809.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1300.9	3.4
10°-20°	3012.1	7.8
20°-30°	4232.0	10.9
30°-40°	5916.4	15.2
40°-50°	8009.6	20.6
50°-60°	9756.1	25.1
60°-70°	5081.4	13.1
70°-80°	1302.0	3.4
80°-90°	198.6	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°	38809.0	100.0
0°-180°	38809.0	100.0

**Coefficient of Utilization**

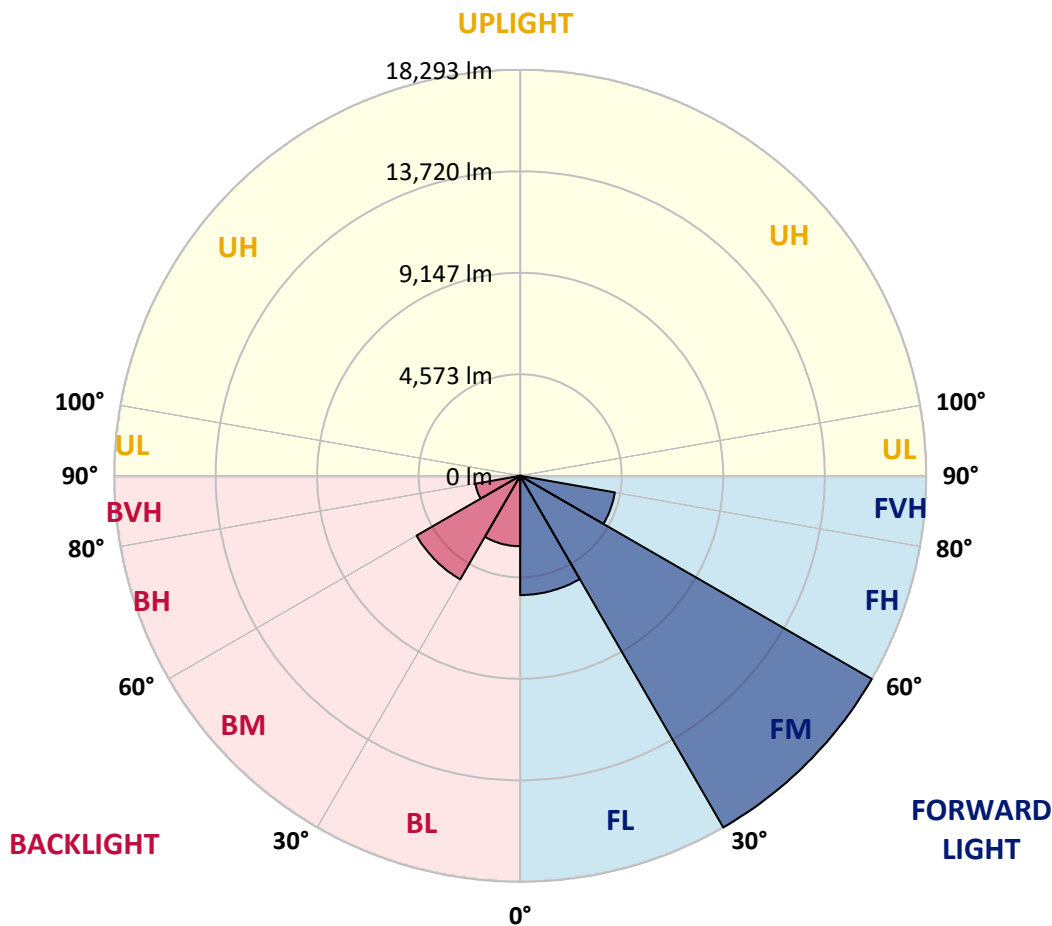


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5371.7	13.8			
FM (30°-60°)	18293.4	47.1			
FH (60°-80°)	4332.2	11.2			G2/5000
FVH (80°-90°)	75.0	0.2			G1/100
BL (0°-30°)	3173.3	8.2	B4/5000		
BM (30°-60°)	5388.7	13.9	B4/8500		
BH (60°-80°)	2051.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	123.6	0.3			G2/225
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°	54°	55°	65°	75°	85°
0°	15084.6	15084.6	15084.6	15084.6	15084.6	15084.6	15084.6	15084.6	15084.6	15084.6	15084.6
2.5°	15513.6	15453.7	15463.7	15543.5	15443.8	15403.9	15403.9	15209.3	15224.3	15089.6	15054.7
5°	15154.4	15014.8	15109.6	15229.3	15249.2	15289.1	15354.0	15304.1	15164.4	15019.8	14785.3
7.5°	14216.6	14341.4	14376.3	14461.1	14640.7	14805.3	15009.8	14870.1	14865.1	14720.5	14580.8
10°	13393.6	13318.8	13508.3	13633.0	13932.3	14206.7	14520.9	14506.0	14580.8	14416.2	14176.7
12.5°	12575.5	12515.6	12605.4	12889.8	13308.8	13707.8	14082.0	13942.3	14341.4	14311.4	13797.6
15°	11707.5	11752.4	11882.1	12146.5	12695.2	13174.1	13648.0	13653.0	14007.1	14126.9	13438.5
17.5°	11099.0	11049.1	11213.7	11607.8	12096.6	12670.3	13209.0	13318.8	13862.5	13932.3	13328.7
20°	10645.0	10714.9	10929.4	11128.9	11692.6	12385.9	12994.5	13034.4	13832.6	14022.1	13154.1
22.5°	10535.3	10495.4	10565.2	10889.5	11353.4	12106.6	12879.8	13029.4	13827.6	13992.2	12824.9
25°	10420.6	10550.3	10545.3	10869.5	11208.7	11882.1	12974.6	13139.2	14091.9	14146.8	12869.8
27.5°	10679.9	10665.0	10804.7	10829.6	11248.6	11942.0	13174.1	13298.8	14530.9	14486.0	12904.7
30°	10939.3	10864.5	10949.3	11243.6	11438.2	12286.2	13722.8	13712.8	15099.6	15069.6	13014.5
32.5°	11258.6	11223.7	11278.5	11537.9	11867.2	12745.1	14186.7	14481.0	15678.2	15867.8	13393.6
35°	11318.4	11463.1	11592.8	11942.0	12410.9	13488.4	15059.7	15304.1	16346.7	16940.3	14116.9
37.5°	11697.6	11752.4	12056.7	12675.3	13104.3	14481.0	15613.4	15768.0	16955.2	17628.6	14880.1
40°	12101.6	12166.5	12625.4	13273.9	13862.5	15129.5	16132.2	16182.0	17149.8	18157.4	15378.9
42.5°	12650.3	12710.2	13164.1	13977.2	14765.4	15683.2	16591.1	16646.0	17134.8	18766.0	16172.1
45°	13219.0	13363.7	13897.4	14820.2	15528.6	16331.7	16695.8	16920.3	17274.5	19309.7	16815.6
47.5°	14017.1	14151.8	14590.8	15493.7	16321.7	16900.4	17179.7	17399.2	17608.7	19783.6	17229.6
50°	14865.1	14890.1	15423.8	16241.9	16850.5	17543.8	18082.6	18157.4	18047.7	20332.3	17932.9
52.5°	15488.7	15568.5	15982.5	16780.6	17688.5	18541.5	19279.8	19359.6	19145.1	20536.8	18172.4
55°	14456.1	14411.2	15084.6	16147.1	18252.2	20028.0	21100.5	21160.4	19943.2	21170.3	18955.5
57.5°	11173.8	11388.3	11961.9	13243.9	16217.0	20686.5	22507.2	22292.7	20901.0	21489.6	19454.4
60°	8120.9	8071.1	8455.2	9313.2	12221.3	17828.2	21280.1	21499.6	20117.8	19369.6	16042.4
62.5°	6614.5	6544.6	6574.6	6604.5	7886.5	11832.2	15753.0	15748.1	15493.7	13922.3	10819.6
65°	5287.6	5452.2	5467.2	5691.6	5856.3	7068.4	9128.6	9617.4	8375.4	6868.9	4983.3
67.5°	3985.7	3925.8	4125.3	4923.5	5232.7	5103.0	4983.3	5038.2	3581.6	2583.9	2434.3
70°	2349.5	2324.5	2564.0	3431.9	4309.9	4055.5	3756.2	3761.2	2459.2	1805.8	2010.3
72.5°	1287.0	1282.0	1331.9	1740.9	2449.3	2544.0	2254.7	2324.5	1466.6	1461.6	1571.3
75°	718.3	703.4	688.4	768.2	882.9	932.8	952.8	962.7	1007.6	1127.4	1172.3
77.5°	264.4	254.4	254.4	294.3	374.1	468.9	593.6	603.6	713.3	818.1	863.0
80°	89.8	99.8	134.7	184.6	249.4	334.2	404.1	414.0	503.8	573.7	588.6
82.5°	54.9	59.9	89.8	129.7	179.6	234.5	299.3	304.3	374.1	419.0	439.0
85°	24.9	29.9	49.9	79.8	114.7	154.6	159.6	159.6	154.6	159.6	149.6
87.5°	0.0	0.0	10.0	10.0	10.0	15.0	20.0	15.0	24.9	29.9	29.9
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°	15084.6	15084.6	15084.6	15084.6	15084.6	15084.6	15084.6	15084.6	15084.6	15084.6	15084.6
2.5°	14949.9	14895.1	14725.5	14575.8	14530.9	14331.4	14037.1	14072.0	13857.5	13957.3	13852.5
5°	14745.4	14560.8	14126.9	13942.3	13458.4	13238.9	13089.3	12715.2	12540.6	12505.7	12356.0
7.5°	14221.6	14106.9	13563.2	13064.4	12550.6	12111.6	11547.9	11163.8	10889.5	10814.6	10595.1
10°	13807.6	13553.2	12800.0	12041.8	11308.5	10545.3	9812.0	9238.3	8959.0	8634.7	8525.0
12.5°	13398.6	13014.5	11996.9	11024.1	10076.4	9113.6	8225.7	7527.3	6918.8	6774.1	6724.2
15°	13144.2	12475.7	11278.5	10106.3	8759.5	7502.4	6614.5	6155.6	5781.4	5626.8	5736.5
17.5°	12809.9	12031.8	10590.2	9028.8	7547.3	6390.0	5646.8	5362.4	5227.7	5242.7	5197.8
20°	12390.9	11612.8	9687.3	8051.1	6464.8	5542.0	5118.0	5013.2	5033.2	5068.1	5053.1
22.5°	12091.6	11104.0	9033.8	7053.5	5586.9	5073.1	4898.5	4823.7	4888.5	4918.5	4893.5
25°	11862.2	10670.0	8240.7	6170.5	5078.1	4808.7	4728.9	4723.9	4823.7	4863.6	4838.6
27.5°	11652.7	10265.9	7452.5	5497.1	4738.9	4604.2	4579.3	4639.1	4704.0	4743.9	4778.8
30°	11528.0	9956.6	6714.2	4933.4	4569.3	4504.4	4459.5	4514.4	4549.3	4589.2	4569.3
32.5°	11647.7	9737.2	6000.9	4614.2	4429.6	4364.8	4424.6	4389.7	4449.6	4484.5	4429.6
35°	12021.8	9542.6	5492.1	4444.6	4270.0	4294.9	4304.9	4289.9	4314.9	4284.9	4349.8
37.5°	12390.9	9472.8	5023.2	4299.9	4195.2	4195.2	4185.2	4155.3	4205.1	4195.2	4225.1
40°	12859.8	9517.7	4624.2	4145.3	4125.3	4115.3	4075.4	4070.5	4050.5	4055.5	4065.5
42.5°	13268.9	9617.4	4394.7	4045.5	4060.5	4080.4	4005.6	3945.7	3970.7	3920.8	3920.8
45°	13702.9	9707.2	4190.2	3975.7	3960.7	3955.7	3895.9	3860.9	3841.0	3846.0	3890.9
47.5°	14386.3	9836.9	4035.5	3880.9	3890.9	3816.0	3801.1	3756.2	3776.1	3806.1	3811.1
50°	14870.1	10111.3	3915.8	3771.2	3806.1	3756.2	3666.4	3646.4	3646.4	3696.3	3686.4
52.5°	15209.3	10495.4	3801.1	3651.4	3666.4	3626.5	3596.6	3551.7	3521.7	3591.6	3626.5
55°	16246.9	11133.9	3771.2	3551.7	3546.7	3506.8	3451.9	3407.0	3392.0	3402.0	3471.9
57.5°	16147.1	10934.3	3676.4	3377.1	3367.1	3312.2	3257.4	3242.4	3237.4	3247.4	3267.3
60°	13109.2	8076.1	3282.3	3177.5	3162.6	3152.6	3097.7	3037.9	3007.9	3037.9	3012.9
62.5°	8674.7	5407.3	2893.2	2938.1	2948.1	2923.1	2833.4	2773.5	2783.5	2818.4	2763.5
65°	4260.0	3177.5	2623.8	2743.6	2753.5	2683.7	2598.9	2529.1	2494.1	2524.1	2499.1
67.5°	2434.3	2429.3	2404.4	2529.1	2524.1	2454.2	2319.6	2259.7	2199.8	2209.8	2194.9
70°	2065.2	2105.1	2154.9	2229.8	2224.8	2145.0	1985.3	1940.4	1855.6	1845.7	1820.7
72.5°	1626.2	1696.0	1805.8	1860.6	1815.7	1716.0	1611.2	1536.4	1461.6	1416.7	1431.6
75°	1207.2	1306.9	1366.8	1401.7	1331.9	1277.0	1192.2	1102.4	1012.6	972.7	957.8
77.5°	877.9	907.9	962.7	987.7	942.8	887.9	838.0	748.2	663.4	608.6	593.6
80°	613.6	633.5	673.4	673.4	673.4	648.5	583.6	493.8	439.0	389.1	379.1
82.5°	429.0	448.9	488.9	468.9	463.9	434.0	394.1	324.2	264.4	229.5	219.5
85°	149.6	164.6	199.5	239.4	254.4	249.4	224.5	179.6	139.7	114.7	104.8
87.5°	34.9	34.9	39.9	34.9	34.9	39.9	34.9	34.9	34.9	24.9	20.0
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)