

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: P531432

Luminaire Tested: **GALN-SA6D-727-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531432  
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-727-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 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: 32456 lumens  
Efficiency: N/A  
Efficacy: 88.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

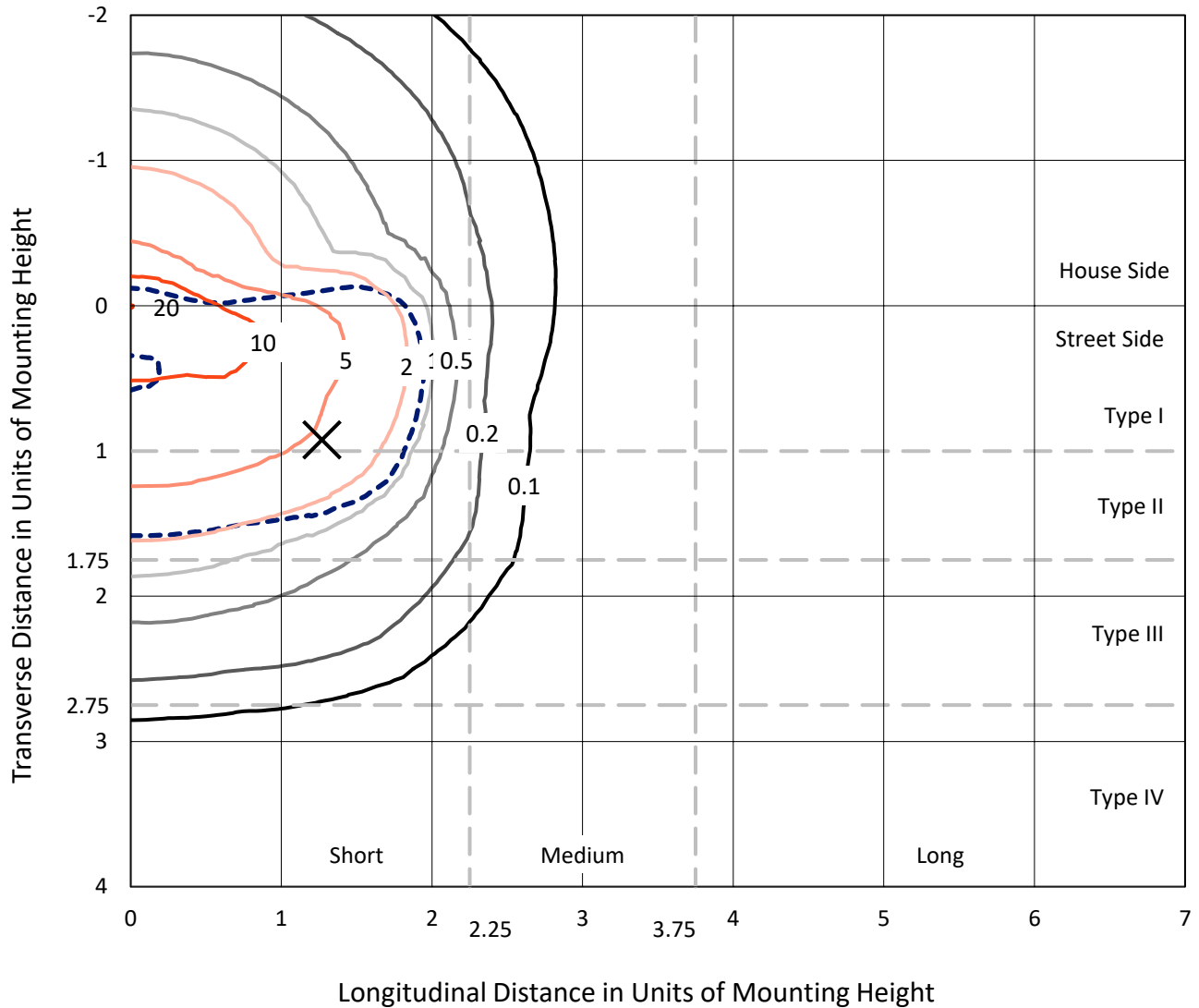
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

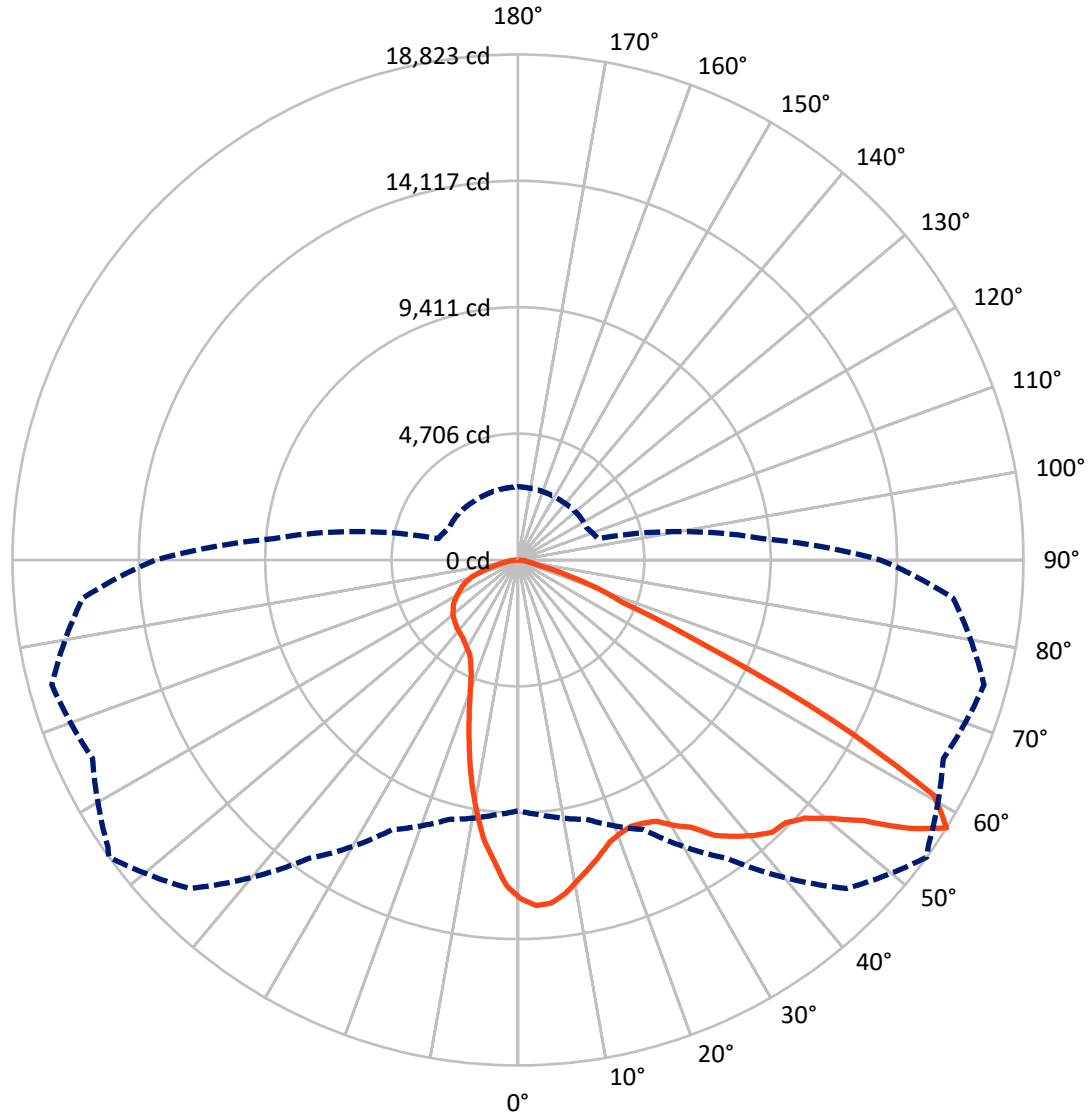
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.2 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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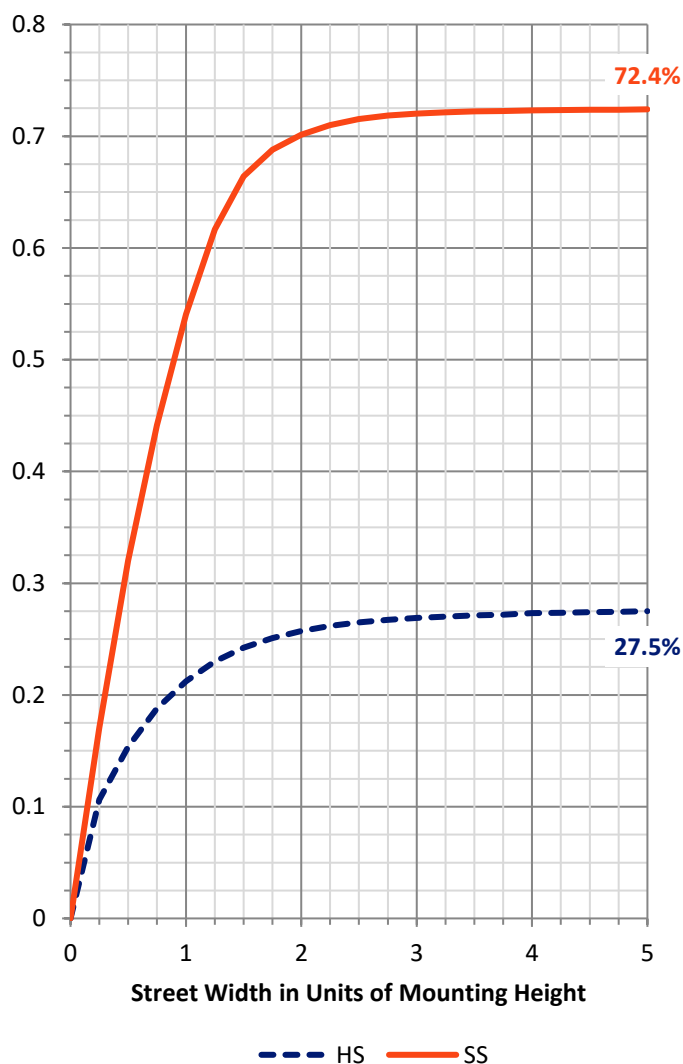
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8979.1	0.0	8979.1
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	23476.9	0.0	23476.9
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	32456.0	0.0	32456.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1087.9	3.4
10°-20°	2519.0	7.8
20°-30°	3539.2	10.9
30°-40°	4947.9	15.2
40°-50°	6698.5	20.6
50°-60°	8159.0	25.1
60°-70°	4249.6	13.1
70°-80°	1088.9	3.4
80°-90°	166.1	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°	32456.0	100.0
0°-180°	32456.0	100.0

**Coefficient of Utilization**



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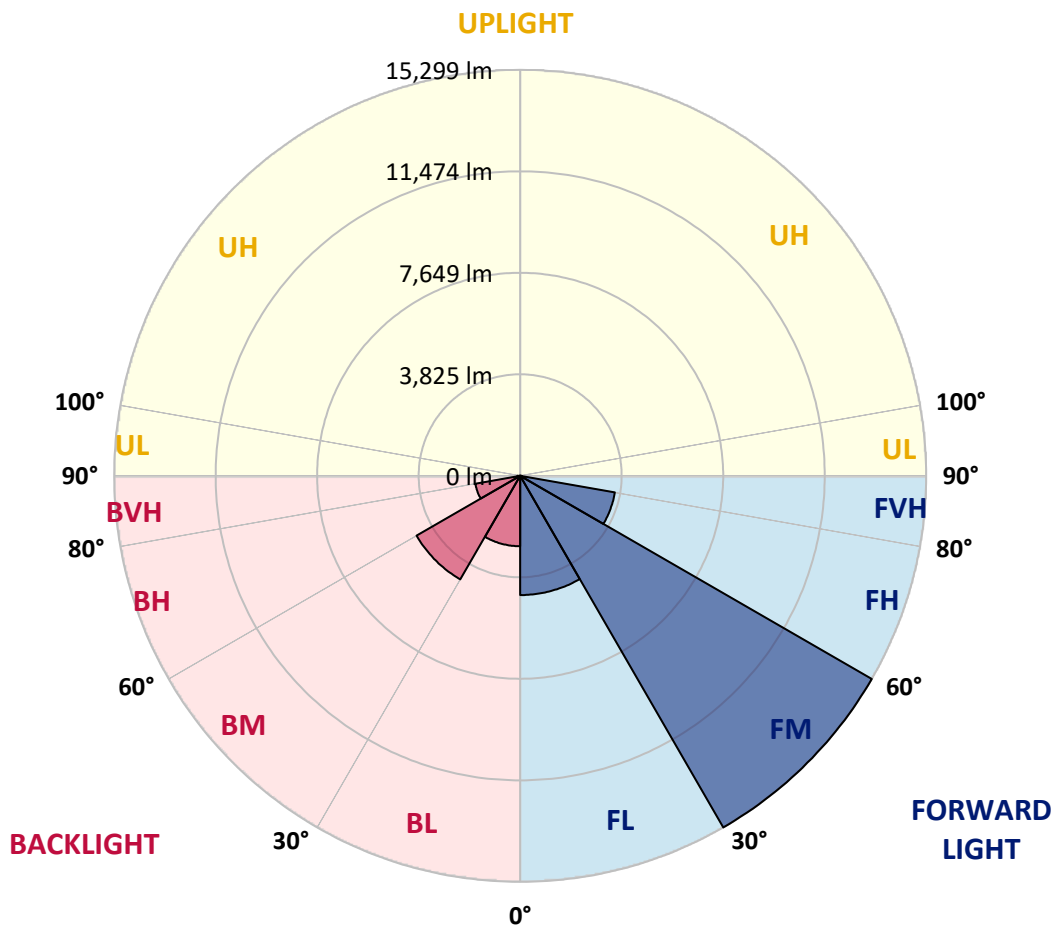
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4492.4	13.8			
FM (30°-60°)	15298.8	47.1			
FH (60°-80°)	3623.0	11.2			G2/5000
FVH (80°-90°)	62.8	0.2			G1/100
BL (0°-30°)	2653.8	8.2	B4/5000		
BM (30°-60°)	4506.5	13.9	B3/5000		
BH (60°-80°)	1715.5	5.3	B3/2500		G3/2500
BVH (80°-90°)	103.3	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°	12615.3	12615.3	12615.3	12615.3	12615.3	12615.3	12615.3	12615.3	12615.3	12615.3	12615.3
2.5°	12974.0	12924.0	12932.3	12999.1	12915.6	12882.3	12882.3	12719.6	12732.1	12619.4	12590.2
5°	12673.7	12556.9	12636.1	12736.3	12752.9	12786.3	12840.5	12798.8	12682.0	12561.0	12365.0
7.5°	11889.4	11993.7	12022.9	12093.8	12244.0	12381.7	12552.7	12435.9	12431.7	12310.7	12193.9
10°	11201.1	11138.5	11297.0	11401.3	11651.6	11881.1	12143.9	12131.4	12193.9	12056.3	11856.0
12.5°	10516.9	10466.8	10541.9	10779.7	11130.1	11463.9	11776.8	11660.0	11993.7	11968.7	11539.0
15°	9791.0	9828.6	9937.0	10158.1	10617.0	11017.5	11413.8	11418.0	11714.2	11814.3	11238.6
17.5°	9282.1	9240.4	9378.0	9707.6	10116.4	10596.2	11046.7	11138.5	11593.2	11651.6	11146.8
20°	8902.4	8960.9	9140.2	9307.1	9778.5	10358.4	10867.3	10900.7	11568.2	11726.7	11000.8
22.5°	8810.7	8777.3	8835.7	9106.9	9494.8	10124.8	10771.4	10896.5	11564.0	11701.7	10725.5
25°	8714.7	8823.2	8819.0	9090.2	9373.9	9937.0	10850.6	10988.3	11785.1	11831.0	10763.0
27.5°	8931.6	8919.1	9035.9	9056.8	9407.2	9987.1	11017.5	11121.8	12152.2	12114.7	10792.2
30°	9148.6	9086.0	9156.9	9403.1	9565.7	10274.9	11476.4	11468.1	12627.8	12602.8	10884.0
32.5°	9415.6	9386.4	9432.3	9649.2	9924.5	10658.7	11864.4	12110.5	13111.7	13270.2	11201.1
35°	9465.6	9586.6	9695.1	9987.1	10379.2	11280.3	12594.4	12798.8	13670.7	14167.2	11806.0
37.5°	9782.7	9828.6	10083.0	10600.3	10959.1	12110.5	13057.5	13186.8	14179.7	14742.9	12444.2
40°	10120.6	10174.8	10558.6	11100.9	11593.2	12652.8	13491.3	13533.1	14342.4	15185.1	12861.4
42.5°	10579.5	10629.5	11009.2	11689.2	12348.3	13115.9	13875.1	13921.0	14329.9	15694.0	13524.7
45°	11055.1	11176.0	11622.4	12394.2	12986.6	13658.2	13962.7	14150.5	14446.7	16148.7	14062.9
47.5°	11722.5	11835.2	12202.3	12957.4	13649.9	14133.8	14367.4	14551.0	14726.2	16545.0	14409.1
50°	12431.7	12452.6	12899.0	13583.1	14092.1	14671.9	15122.5	15185.1	15093.3	17003.9	14997.3
52.5°	12953.2	13019.9	13366.2	14033.7	14792.9	15506.3	16123.7	16190.4	16011.1	17175.0	15197.6
55°	12089.6	12052.1	12615.3	13503.9	15264.3	16749.4	17646.4	17696.4	16678.5	17704.8	15852.5
57.5°	9344.6	9524.0	10003.8	11075.9	13562.3	17300.1	18822.8	18643.4	17479.5	17971.8	16269.7
60°	6791.6	6749.8	7071.1	7788.6	10220.7	14909.7	17796.5	17980.1	16824.5	16198.8	13416.2
62.5°	5531.7	5473.3	5498.3	5523.4	6595.5	9895.3	13174.3	13170.1	12957.4	11643.3	9048.5
65°	4422.0	4559.7	4572.2	4759.9	4897.6	5911.3	7634.2	8043.1	7004.3	5744.5	4167.5
67.5°	3333.2	3283.1	3450.0	4117.5	4376.1	4267.7	4167.5	4213.4	2995.3	2160.9	2035.8
70°	1964.9	1944.0	2144.3	2870.1	3604.4	3391.6	3141.3	3145.5	2056.7	1510.2	1681.2
72.5°	1076.3	1072.1	1113.8	1455.9	2048.3	2127.6	1885.6	1944.0	1226.5	1222.3	1314.1
75°	600.7	588.2	575.7	642.4	738.4	780.1	796.8	805.1	842.7	942.8	980.4
77.5°	221.1	212.8	212.8	246.1	312.9	392.1	496.4	504.8	596.6	684.2	721.7
80°	75.1	83.4	112.6	154.4	208.6	279.5	337.9	346.3	421.3	479.7	492.3
82.5°	45.9	50.1	75.1	108.5	150.2	196.1	250.3	254.5	312.9	350.4	367.1
85°	20.9	25.0	41.7	66.7	95.9	129.3	133.5	133.5	129.3	133.5	125.2
87.5°	0.0	0.0	8.3	8.3	8.3	12.5	16.7	12.5	20.9	25.0	25.0
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°	12615.3	12615.3	12615.3	12615.3	12615.3	12615.3	12615.3	12615.3	12615.3	12615.3	12615.3
2.5°	12502.6	12456.8	12314.9	12189.8	12152.2	11985.3	11739.2	11768.4	11589.0	11672.5	11584.9
5°	12331.6	12177.2	11814.3	11660.0	11255.3	11071.7	10946.6	10633.7	10487.7	10458.5	10333.3
7.5°	11893.6	11797.6	11342.9	10925.7	10496.0	10128.9	9657.5	9336.3	9106.9	9044.3	8860.7
10°	11547.3	11334.6	10704.6	10070.5	9457.3	8819.0	8205.8	7726.0	7492.4	7221.2	7129.5
12.5°	11205.2	10884.0	10033.0	9219.5	8426.9	7621.7	6879.2	6295.1	5786.2	5665.2	5623.5
15°	10992.5	10433.5	9432.3	8451.9	7325.5	6274.3	5531.7	5147.9	4835.0	4705.7	4797.5
17.5°	10713.0	10062.2	8856.6	7550.8	6311.8	5344.0	4722.4	4484.6	4372.0	4384.5	4346.9
20°	10362.5	9711.8	8101.5	6733.2	5406.5	4634.8	4280.2	4192.6	4209.3	4238.5	4226.0
22.5°	10112.2	9286.2	7555.0	5898.8	4672.3	4242.6	4096.6	4034.1	4088.3	4113.3	4092.5
25°	9920.3	8923.3	6891.7	5160.4	4246.8	4021.5	3954.8	3950.6	4034.1	4067.4	4046.6
27.5°	9745.1	8585.4	6232.5	4597.2	3963.1	3850.5	3829.6	3879.7	3933.9	3967.3	3996.5
30°	9640.8	8326.7	5615.1	4125.8	3821.3	3767.1	3729.5	3775.4	3804.6	3838.0	3821.3
32.5°	9741.0	8143.2	5018.6	3858.8	3704.5	3650.3	3700.3	3671.1	3721.2	3750.4	3704.5
35°	10053.8	7980.5	4593.1	3717.0	3571.0	3591.8	3600.2	3587.7	3608.5	3583.5	3637.7
37.5°	10362.5	7922.1	4200.9	3596.0	3508.4	3508.4	3500.1	3475.0	3516.8	3508.4	3533.4
40°	10754.7	7959.6	3867.2	3466.7	3450.0	3441.7	3408.3	3404.1	3387.4	3391.6	3400.0
42.5°	11096.8	8043.1	3675.3	3383.3	3395.8	3412.5	3349.9	3299.8	3320.7	3279.0	3279.0
45°	11459.7	8118.2	3504.2	3324.9	3312.3	3308.2	3258.1	3228.9	3212.2	3216.4	3253.9
47.5°	12031.2	8226.6	3374.9	3245.6	3253.9	3191.4	3178.8	3141.3	3158.0	3183.0	3187.2
50°	12435.9	8456.1	3274.8	3153.8	3183.0	3141.3	3066.2	3049.5	3049.5	3091.2	3082.9
52.5°	12719.6	8777.3	3178.8	3053.7	3066.2	3032.8	3007.8	2970.3	2945.2	3003.6	3032.8
55°	13587.3	9311.3	3153.8	2970.3	2966.1	2932.7	2886.8	2849.3	2836.8	2845.1	2903.5
57.5°	13503.9	9144.4	3074.6	2824.3	2815.9	2770.0	2724.1	2711.6	2707.4	2715.8	2732.5
60°	10963.3	6754.0	2745.0	2657.4	2644.9	2636.5	2590.6	2540.6	2515.5	2540.6	2519.7
62.5°	7254.6	4522.1	2419.6	2457.1	2465.5	2444.6	2369.5	2319.5	2327.8	2357.0	2311.1
65°	3562.6	2657.4	2194.3	2294.4	2302.8	2244.4	2173.5	2115.1	2085.9	2110.9	2090.0
67.5°	2035.8	2031.6	2010.8	2115.1	2110.9	2052.5	1939.8	1889.8	1839.7	1848.1	1835.6
70°	1727.1	1760.5	1802.2	1864.8	1860.6	1793.8	1660.3	1622.8	1551.9	1543.5	1522.7
72.5°	1360.0	1418.4	1510.2	1556.1	1518.5	1435.1	1347.5	1284.9	1222.3	1184.8	1197.3
75°	1009.6	1093.0	1143.1	1172.3	1113.8	1068.0	997.0	921.9	846.9	813.5	801.0
77.5°	734.2	759.3	805.1	826.0	788.5	742.6	700.8	625.8	554.8	508.9	496.4
80°	513.1	529.8	563.2	563.2	563.2	542.3	488.1	413.0	367.1	325.4	317.1
82.5°	358.8	375.5	408.8	392.1	388.0	362.9	329.6	271.2	221.1	191.9	183.6
85°	125.2	137.7	166.9	200.2	212.8	208.6	187.7	150.2	116.8	95.9	87.6
87.5°	29.2	29.2	33.4	29.2	29.2	33.4	29.2	29.2	29.2	20.9	16.7
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)