

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: P530274

Luminaire Tested: **GALN-SA5C-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530274  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-727-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25704 lumens  
Efficiency: N/A  
Efficacy: 95.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

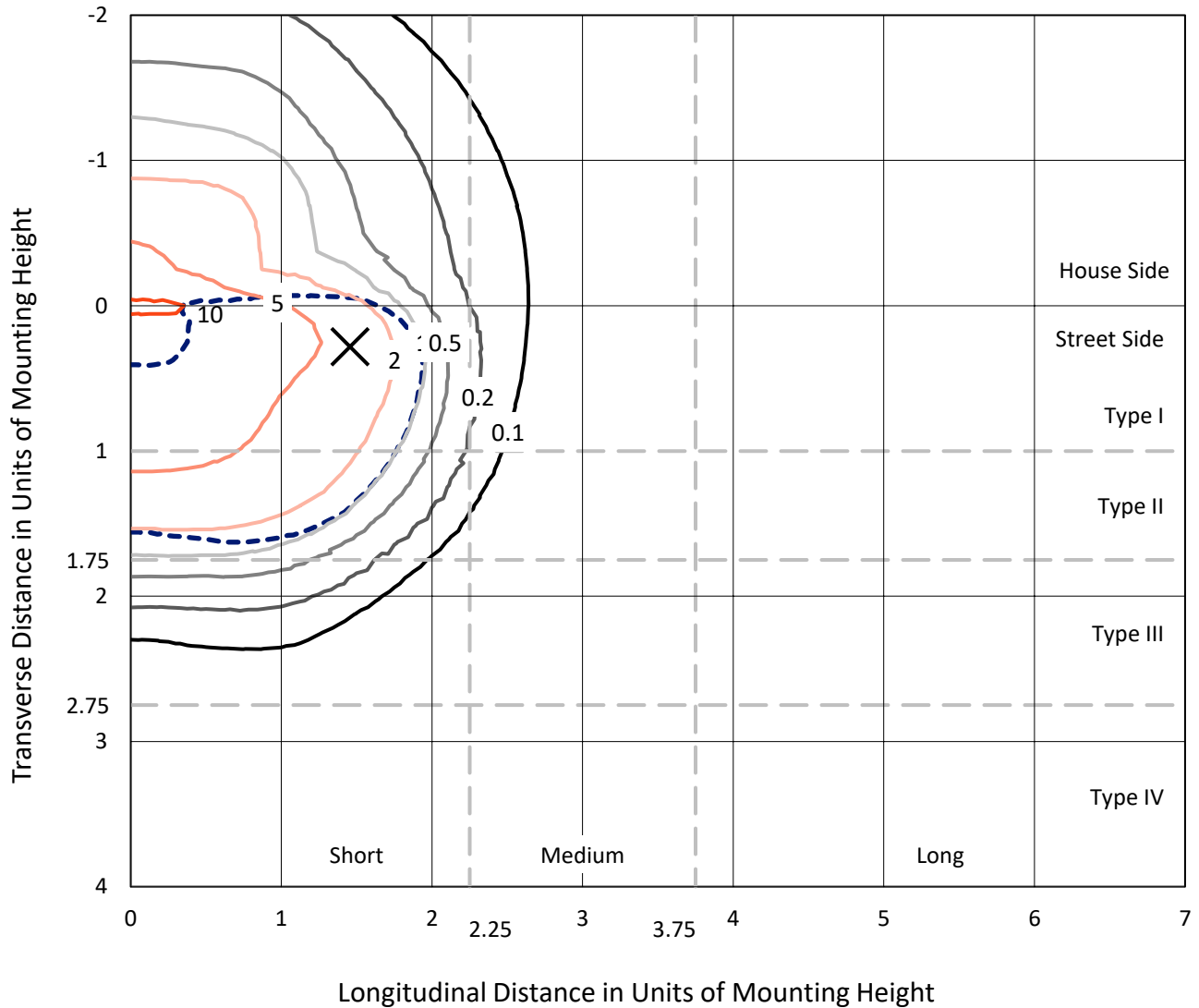
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

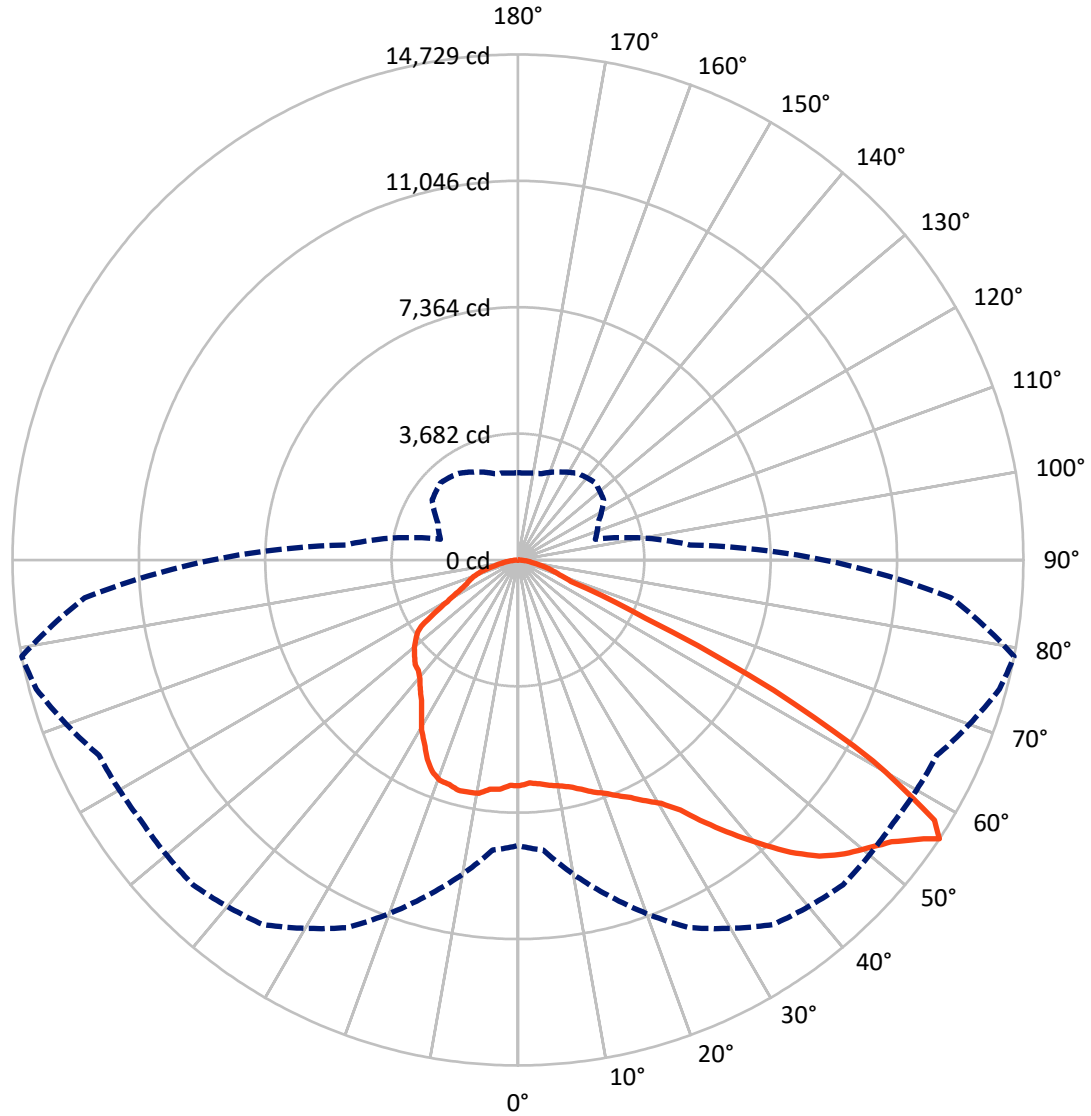
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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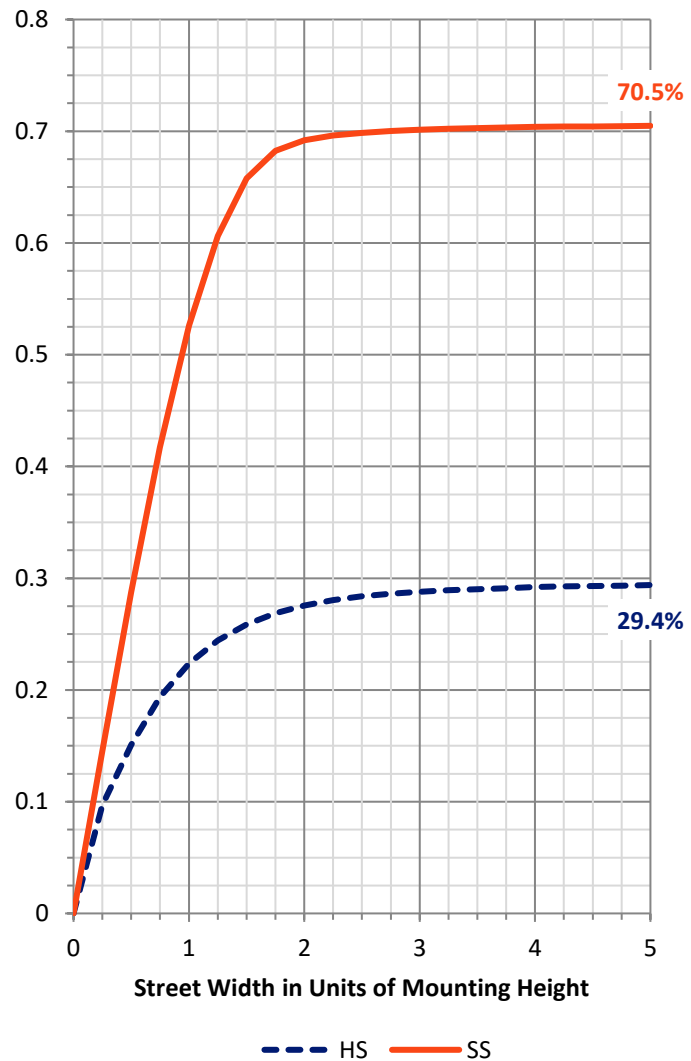
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7591.0	0.0	7591.0
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	18113.0	0.0	18113.0
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	25704.0	0.0	25704.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	597.9	2.3
10°-20°	1636.4	6.4
20°-30°	2799.6	10.9
30°-40°	4290.7	16.7
40°-50°	5798.8	22.6
50°-60°	6660.2	25.9
60°-70°	3035.9	11.8
70°-80°	748.5	2.9
80°-90°	136.0	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°	25704.0	100.0
0°-180°	25704.0	100.0

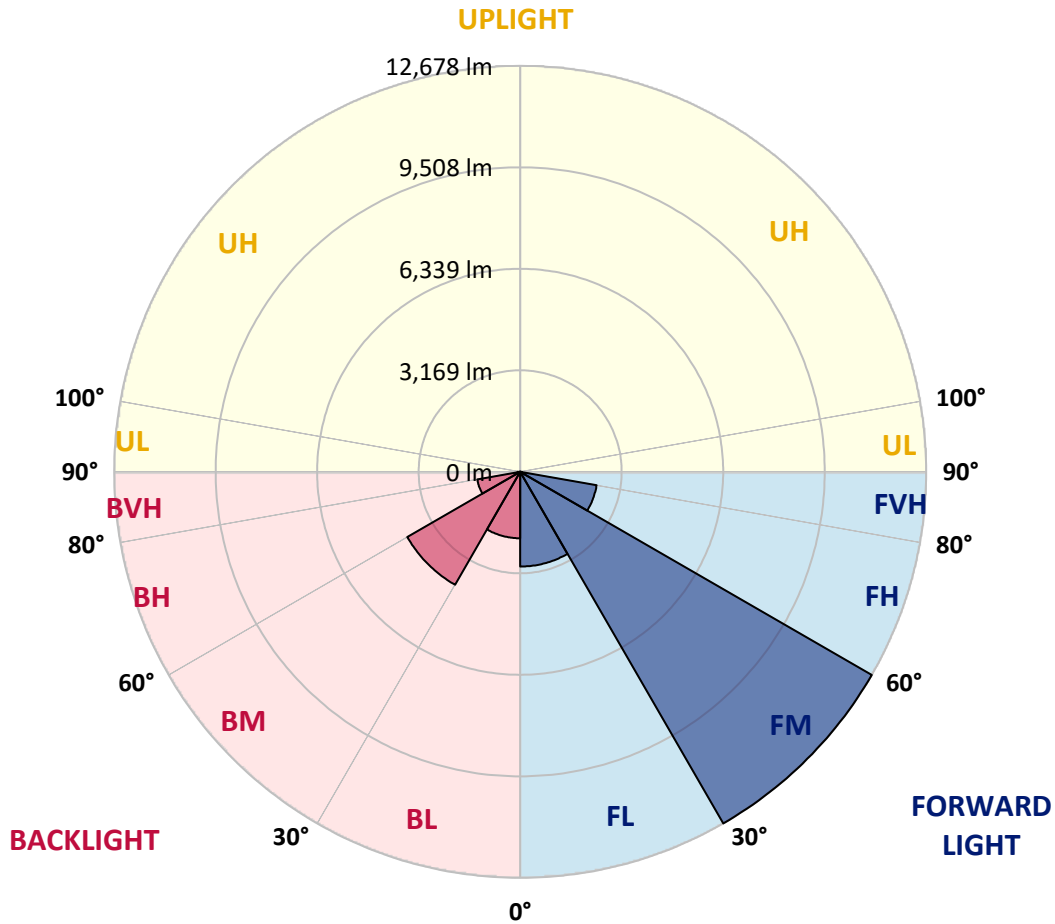


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2957.5	11.5			
FM (30°-60°)	12678.0	49.3			
FH (60°-80°)	2423.3	9.4			G2/5000
FVH (80°-90°)	54.3	0.2			G1/100
BL (0°-30°)	2076.5	8.1	B3/2500		
BM (30°-60°)	4071.7	15.8	B3/5000		
BH (60°-80°)	1361.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	81.7	0.3			G1/100
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°	79°	85°
0°	6576.6	6576.6	6576.6	6576.6	6576.6	6576.6	6576.6	6576.6	6576.6	6576.6	6576.6
2.5°	6256.4	6240.4	6278.9	6307.7	6342.9	6387.7	6410.1	6422.9	6535.0	6506.2	6592.6
5°	6122.0	6080.3	6109.2	6131.6	6192.4	6246.8	6307.7	6403.7	6506.2	6551.0	6656.7
7.5°	6003.5	5981.1	5974.7	5990.7	6073.9	6144.4	6250.0	6390.9	6557.4	6631.1	6691.9
10°	5808.2	5776.2	5824.2	5929.9	5952.3	6099.6	6221.2	6422.9	6567.0	6695.1	6874.4
12.5°	5721.7	5689.7	5699.3	5760.2	5917.1	6057.9	6202.0	6429.3	6733.5	6784.8	7024.9
15°	5859.4	5827.4	5837.0	5821.0	5971.5	6045.1	6272.5	6557.4	6848.8	6935.2	7191.4
17.5°	6173.2	6176.4	6134.8	6099.6	6064.3	6221.2	6378.1	6634.3	6893.6	7111.3	7303.5
20°	6771.9	6666.3	6583.0	6384.5	6330.1	6397.3	6595.8	6842.4	7076.1	7255.4	7473.2
22.5°	7233.0	7242.6	7124.2	6797.6	6679.1	6707.9	6877.6	7079.3	7335.5	7463.6	7713.3
25°	7902.2	7835.0	7706.9	7447.5	7181.8	7204.2	7329.1	7511.6	7582.0	7671.7	7943.8
27.5°	8513.8	8533.0	8280.0	8036.7	7706.9	7642.9	7867.0	7899.0	7780.5	7950.2	8043.1
30°	9134.9	9118.9	8952.4	8667.5	8344.1	8356.9	8456.1	8299.2	8135.9	8228.8	8292.8
32.5°	9778.5	9596.0	9589.6	9333.4	9086.9	8968.4	8846.8	8923.6	8670.7	8689.9	8629.0
35°	10294.0	10319.6	10172.3	9989.8	9868.2	9660.0	9327.0	9464.7	9416.7	9394.3	9131.7
37.5°	10668.6	10569.4	10643.0	10582.2	10466.9	10207.6	9861.8	9993.0	10015.4	10124.3	9820.1
40°	10976.0	10934.4	11129.7	11161.7	11081.7	10521.3	9900.2	10290.8	10627.0	10863.9	10502.1
42.5°	11123.3	11212.9	11417.9	11664.4	11485.1	10886.3	10098.7	10518.1	11267.4	11642.0	11148.9
45°	11321.8	11206.5	11510.7	11962.2	11965.4	11193.7	10290.8	10825.5	11766.9	12311.2	11590.8
47.5°	11120.1	11177.7	11491.5	12064.6	12211.9	11517.1	10809.5	11261.0	12317.6	12801.1	12000.6
50°	10668.6	10783.9	11357.0	11952.6	12397.6	11859.7	11405.1	11731.6	12826.7	13194.9	12067.8
52.5°	10197.9	10262.0	11158.5	12039.0	12480.9	12301.6	12202.3	12381.6	13447.8	13640.0	12151.1
55°	8917.2	9221.4	10502.1	12000.6	12887.5	13098.8	13022.0	13284.5	14152.3	14344.4	12605.8
56°	8324.9	8484.9	10108.3	11821.3	12967.6	13390.2	13351.8	13470.3	14526.9	14728.6	12676.2
57.5°	7229.8	7242.6	8619.4	11027.2	12666.6	13476.7	13438.2	13531.1	14453.2	14315.5	12058.2
60°	4524.2	4722.8	5865.8	8481.7	10771.1	12503.3	12721.0	11975.0	12186.3	11894.9	9381.5
62.5°	2343.8	2315.0	3073.8	4959.7	7149.8	8952.4	9154.1	9118.9	8792.3	8366.5	6128.4
65°	1168.7	1175.1	1607.3	2455.8	3662.9	4687.5	5251.1	5311.9	4444.2	4088.8	2907.3
67.5°	848.5	880.5	1155.9	1501.7	1725.8	1930.7	2366.2	2321.4	1757.8	1671.4	1549.7
70°	659.6	688.4	938.1	1146.3	1040.6	1040.6	1133.5	1171.9	1251.9	1287.2	1328.8
72.5°	480.3	502.7	717.2	790.9	682.0	733.2	848.5	938.1	1021.4	1034.2	1082.2
75°	329.8	349.0	470.7	435.5	409.8	505.9	621.2	704.4	765.2	797.3	826.1
77.5°	214.5	220.9	269.0	227.3	262.6	326.6	403.4	473.9	534.7	560.3	566.7
80°	96.1	105.7	115.3	144.1	182.5	233.7	288.2	345.8	384.2	393.8	413.0
82.5°	54.4	54.4	70.4	102.5	134.5	169.7	208.1	249.7	294.6	304.2	301.0
85°	28.8	28.8	41.6	60.8	83.2	99.3	96.1	99.3	105.7	121.7	118.5
87.5°	9.6	9.6	12.8	12.8	16.0	19.2	16.0	22.4	28.8	28.8	28.8
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°	6576.6	6576.6	6576.6	6576.6	6576.6	6576.6	6576.6	6576.6	6576.6	6576.6	6576.6
2.5°	6567.0	6595.8	6557.4	6640.7	6640.7	6624.7	6544.6	6570.2	6589.4	6589.4	6605.5
5°	6691.9	6682.3	6707.9	6608.7	6547.8	6525.4	6394.1	6330.1	6275.7	6272.5	6224.4
7.5°	6762.3	6736.7	6727.1	6653.5	6384.5	6221.2	5939.5	5776.2	5740.9	5616.1	5664.1
10°	6874.4	6922.4	6874.4	6474.2	6099.6	5724.9	5449.6	5196.6	5097.4	5017.3	4969.3
12.5°	7104.9	7082.5	6804.0	6262.9	5737.7	5292.7	4882.8	4617.1	4517.8	4447.4	4441.0
15°	7300.3	7188.2	6762.3	5929.9	5174.2	4700.3	4364.1	4175.2	4130.4	4136.8	4165.6
17.5°	7367.5	7290.7	6544.6	5584.1	4754.8	4197.6	4040.8	4011.9	4053.6	4101.6	4114.4
20°	7473.2	7351.5	6455.0	5113.4	4236.1	3883.9	3874.3	3976.7	4053.6	4124.0	4133.6
22.5°	7694.1	7386.7	6163.6	4668.3	3880.7	3791.0	3883.9	3970.3	4088.8	4146.4	4095.2
25°	7758.1	7309.9	5753.8	4133.6	3656.5	3733.4	3832.6	3951.1	4034.4	4066.4	4088.8
27.5°	7812.6	7191.4	5199.8	3778.2	3586.1	3730.2	3832.6	3931.9	3976.7	4005.5	4031.2
30°	7966.2	7156.2	4719.6	3541.3	3541.3	3666.1	3797.4	3823.0	3883.9	3919.1	3963.9
32.5°	8043.1	6912.8	4226.5	3390.8	3496.4	3698.2	3707.8	3755.8	3759.0	3787.8	3739.8
35°	8244.8	6739.9	3768.6	3281.9	3515.7	3666.1	3714.2	3685.3	3528.5	3451.6	3467.6
37.5°	8392.1	6653.5	3438.8	3269.1	3518.9	3701.4	3727.0	3509.2	3346.0	3217.9	3249.9
40°	8789.1	6439.0	3189.1	3246.7	3547.7	3739.8	3669.3	3432.4	3137.8	3006.6	2984.1
42.5°	9093.3	6285.3	3032.2	3221.1	3570.1	3794.2	3640.5	3278.7	2977.7	2856.1	2888.1
45°	9445.5	6250.0	2948.9	3227.5	3608.5	3823.0	3605.3	3160.2	2840.1	2792.0	2782.4
47.5°	9570.4	5997.1	2859.3	3173.1	3598.9	3813.4	3486.8	3070.6	2788.8	2795.2	2820.8
50°	9362.3	5737.7	2792.0	3061.0	3534.9	3727.0	3301.1	2952.1	2760.0	2840.1	2884.9
52.5°	9096.5	5472.0	2654.3	2910.5	3403.6	3592.5	3214.7	2945.7	2731.2	2705.6	2715.2
55°	9176.6	5254.3	2462.2	2705.6	3192.3	3342.7	3118.6	2884.9	2660.8	2564.7	2596.7
56°	8917.2	5030.1	2337.4	2577.5	3048.2	3182.7	3070.6	2830.5	2603.1	2539.1	2539.1
57.5°	8184.0	4277.7	2174.1	2372.6	2744.0	2904.1	2977.7	2798.4	2539.1	2427.0	2430.2
60°	6035.5	3041.8	1949.9	2090.8	2273.3	2401.4	2744.0	2708.8	2379.0	2302.1	2273.3
62.5°	3720.6	2222.1	1789.8	1844.3	1937.1	2042.8	2395.0	2452.6	2209.3	2126.0	2106.8
65°	2084.4	1700.2	1668.2	1690.6	1735.4	1789.8	1988.4	2116.4	1949.9	1821.9	1815.5
67.5°	1524.1	1520.9	1546.5	1565.7	1584.9	1584.9	1633.0	1684.2	1661.8	1559.3	1549.7
70°	1354.4	1364.0	1383.2	1386.4	1392.8	1370.4	1332.0	1316.0	1341.6	1277.5	1264.7
72.5°	1117.5	1149.5	1171.9	1175.1	1139.9	1111.0	1059.8	1005.4	986.2	973.4	970.2
75°	858.1	880.5	890.1	886.9	874.1	832.5	771.7	717.2	682.0	643.6	662.8
77.5°	579.5	611.6	627.6	627.6	608.4	544.3	515.5	473.9	438.7	397.0	403.4
80°	406.6	429.1	454.7	451.5	419.4	387.4	345.8	307.4	278.6	246.5	243.3
82.5°	304.2	317.0	329.8	323.4	301.0	269.0	240.1	204.9	172.9	150.5	150.5
85°	108.9	118.5	144.1	150.5	163.3	163.3	137.7	115.3	92.9	76.8	76.8
87.5°	32.0	32.0	35.2	35.2	32.0	35.2	28.8	32.0	35.2	22.4	22.4
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)