

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: P533103

Luminaire Tested: **GALN-SA8C-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533103  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-730-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34194 lumens  
Efficiency: N/A  
Efficacy: 79.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

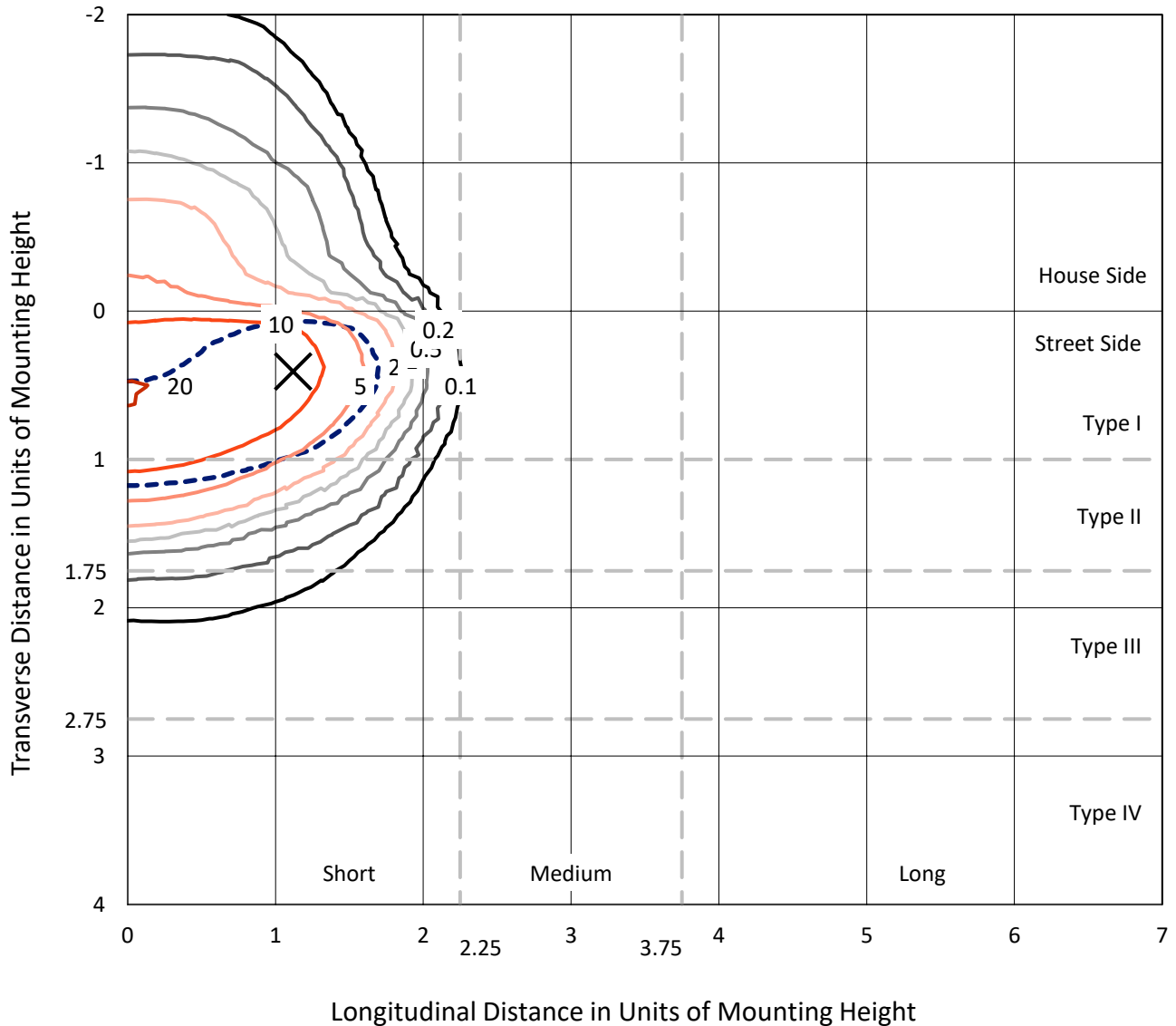
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

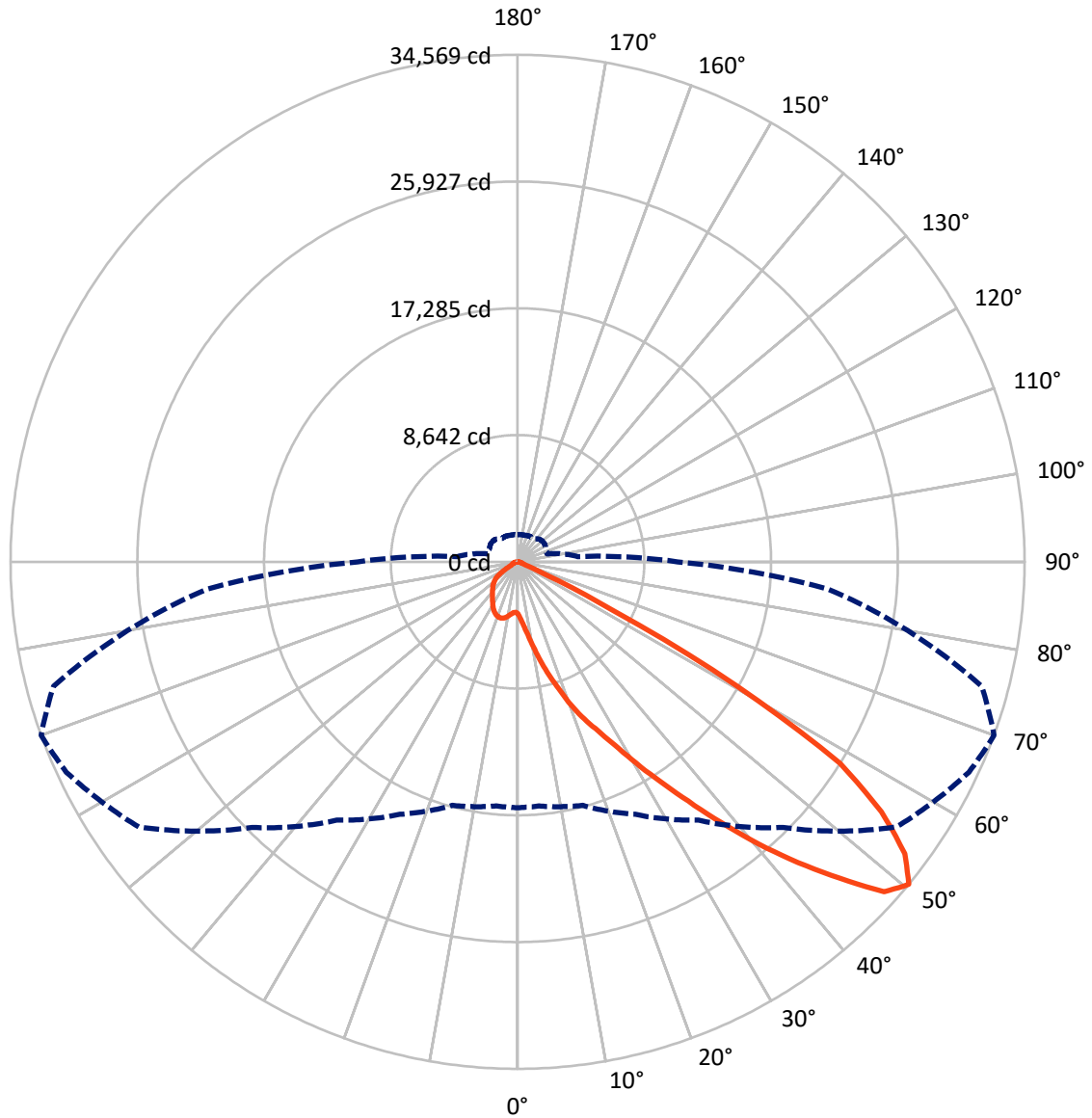
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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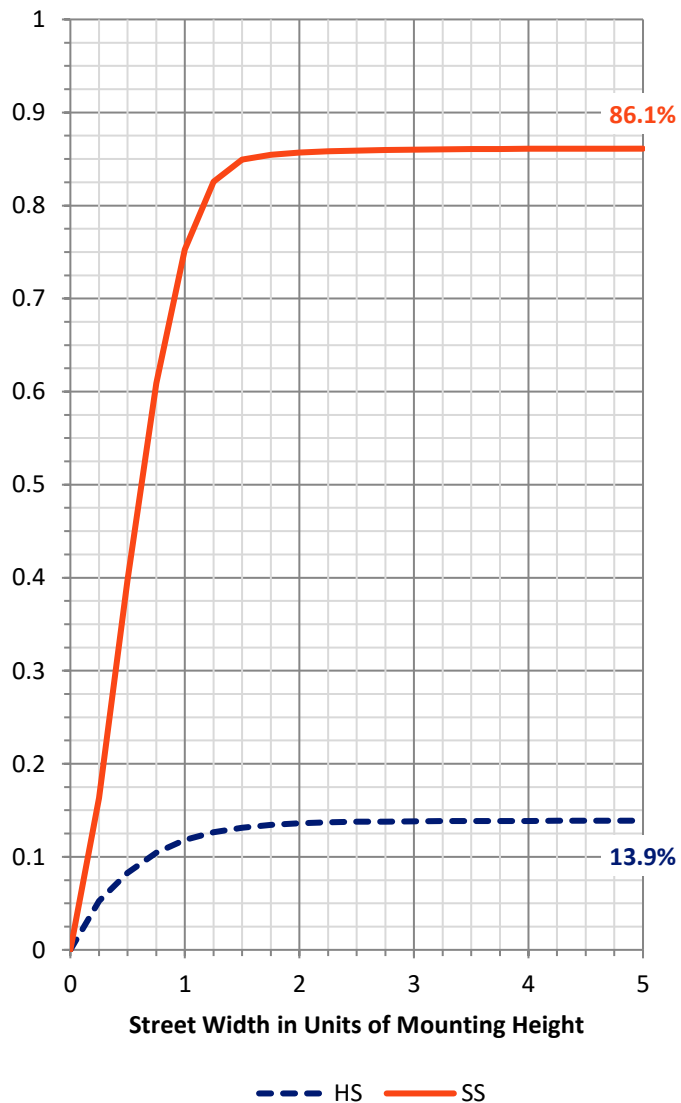
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4775.4	0.0	4775.4
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	29418.6	0.0	29418.6
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	34194.0	0.0	34194.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	460.6	1.3
10°-20°	1992.2	5.8
20°-30°	4179.4	12.2
30°-40°	7203.9	21.1
40°-50°	10528.4	30.8
50°-60°	8199.9	24.0
60°-70°	1389.3	4.1
70°-80°	190.9	0.6
80°-90°	49.4	0.1
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°	34194.0	100.0
0°-180°	34194.0	100.0

**Coefficient of Utilization**

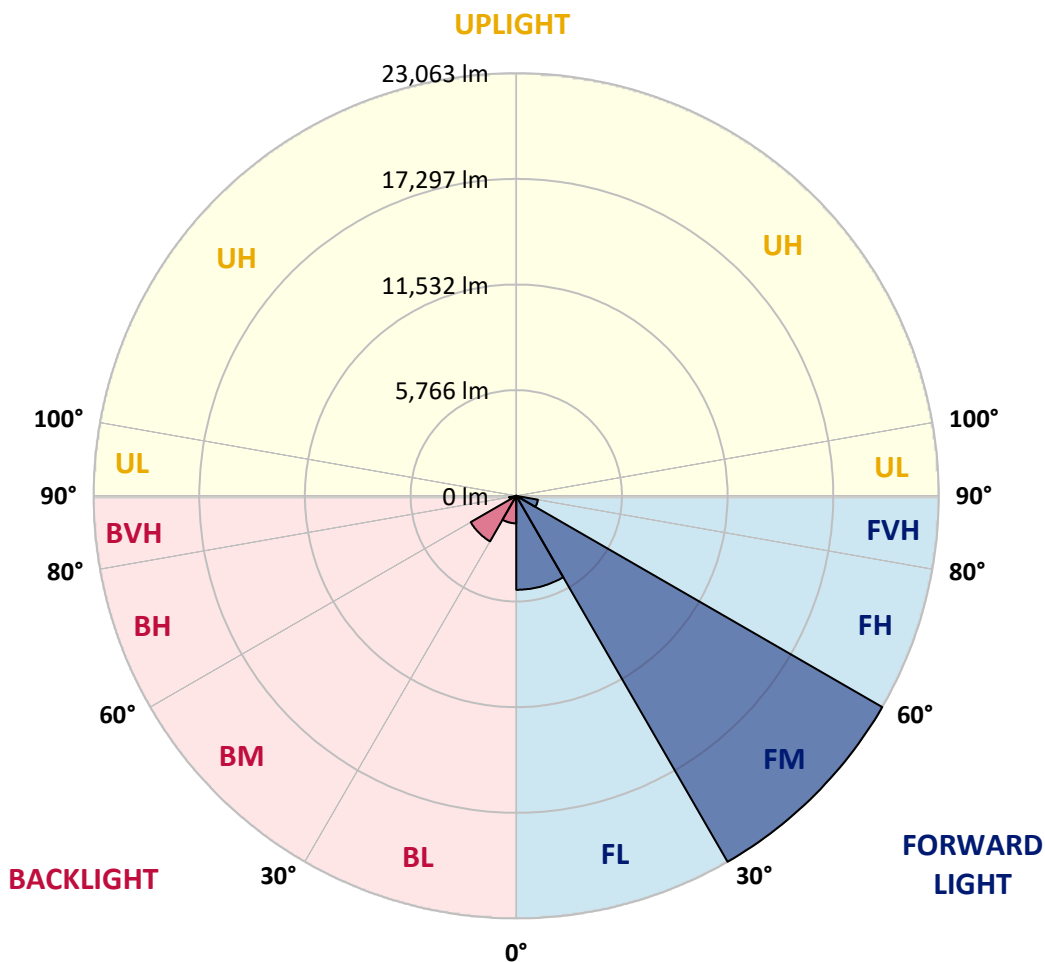


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5129.5	15.0			
FM (30°-60°)	23063.3	67.4			
FH (60°-80°)	1202.9	3.5			G1/1800
FVH (80°-90°)	22.8	0.1			G1/100
BL (0°-30°)	1502.7	4.4	B3/2500		
BM (30°-60°)	2868.9	8.4	B3/5000		
BH (60°-80°)	377.2	1.1	B1/500		G1/500
BVH (80°-90°)	26.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3541.8	3541.8	3541.8	3541.8	3541.8	3541.8	3541.8	3541.8	3541.8	3541.8	3541.8
2.5°	4638.1	4604.4	4531.3	4396.4	4340.1	4205.2	4126.5	3974.7	3879.1	3772.3	3654.3
5°	6532.7	6358.4	6251.6	6099.8	5655.7	5380.2	4924.8	4536.9	4357.0	4160.2	3890.4
7.5°	8489.1	8376.7	8230.5	7904.5	7600.9	7027.4	6246.0	5391.4	5026.0	4688.7	4154.6
10°	10108.3	9793.4	9776.6	9534.8	9203.1	8517.2	7578.4	6515.8	5863.7	5369.0	4531.3
12.5°	11238.3	10951.5	11080.9	11052.7	10743.5	10113.9	9028.8	7623.4	6943.1	6172.9	4919.2
15°	12267.1	12149.0	12109.7	12075.9	11952.3	11485.6	10513.0	8972.6	7988.8	7061.2	5357.7
17.5°	13273.4	12969.8	13116.0	13144.1	13132.9	12711.2	11800.5	10254.4	9096.3	8000.0	5818.7
20°	14167.3	14195.4	13998.6	13959.3	13925.6	13908.7	13020.4	11525.0	10456.8	8983.9	6420.3
22.5°	15314.2	15117.4	15291.7	15179.3	14960.0	14825.1	14144.8	12649.4	11637.4	10170.1	7033.1
25°	16669.1	16826.5	16416.1	16371.1	16129.4	15662.7	15049.9	13908.7	12773.1	11272.0	7696.4
27.5°	18338.8	18063.3	17956.5	17709.1	17270.6	17073.8	16354.2	15207.4	14144.8	12430.1	8337.3
30°	19772.4	19699.3	19165.2	18872.9	18490.6	18485.0	17478.6	16967.0	15932.6	14246.0	9220.0
32.5°	20941.7	20621.3	20424.5	20222.1	19912.9	19997.3	19148.3	18878.5	17838.4	15932.6	10260.0
35°	21723.2	21492.7	21374.6	21065.4	20975.5	21352.1	20998.0	20885.5	20031.0	18305.1	11480.0
37.5°	21970.6	22043.6	22021.2	21633.2	21824.4	22842.0	23297.3	23005.0	22555.2	20806.8	12801.2
40°	22189.8	22240.4	22128.0	22583.4	23128.7	24286.8	25934.0	25450.5	25281.9	23342.3	14639.5
42.5°	22313.5	22274.1	22274.1	23061.2	23887.6	26215.1	28480.8	28160.3	28031.0	26040.8	16764.6
45°	21779.4	21397.1	21807.5	22875.7	24539.8	27165.2	30515.9	30960.0	30774.5	29251.0	19249.5
47.5°	19783.6	20019.7	20250.2	21678.2	23747.1	26872.9	31764.0	33276.3	33619.2	31949.5	20879.9
50°	16764.6	16714.0	17191.9	18990.9	21503.9	25613.6	31522.2	33945.3	34569.3	32759.1	21222.8
52.5°	12194.0	12565.0	13082.3	14870.0	17849.7	22352.9	28402.1	32219.4	33051.4	31764.0	20998.0
55°	7100.5	6690.1	7853.9	9366.2	12177.1	16860.2	24011.3	28559.5	30099.9	29953.7	19862.3
57.5°	2844.7	2754.8	3153.9	4250.2	6352.8	10451.2	17461.8	23466.0	25934.0	27435.1	17456.1
60°	1248.1	1220.0	1433.6	1731.6	2597.3	4818.0	9551.7	14594.6	17169.4	19170.8	12014.1
62.5°	899.5	888.3	995.1	1101.9	1371.8	2097.0	4014.1	5880.6	7331.0	8854.6	5380.2
65°	725.2	753.3	826.4	882.6	1012.0	1163.7	1416.7	1636.0	2007.0	2080.1	1186.2
67.5°	590.3	612.8	680.3	742.1	764.6	629.7	652.1	573.4	573.4	511.6	410.4
70°	432.9	438.5	517.2	590.3	472.2	253.0	444.1	444.1	399.2	382.3	348.6
72.5°	320.5	326.1	387.9	365.4	185.5	157.4	326.1	359.8	326.1	309.2	281.1
75°	236.1	241.7	202.4	84.3	78.7	101.2	191.1	247.4	236.1	230.5	213.6
77.5°	45.0	33.7	28.1	39.4	56.2	84.3	123.7	151.8	157.4	168.7	157.4
80°	5.6	5.6	16.9	33.7	61.8	90.0	129.3	146.2	151.8	157.4	146.2
82.5°	0.0	5.6	16.9	33.7	61.8	84.3	112.4	129.3	140.5	146.2	140.5
85°	0.0	5.6	11.2	28.1	50.6	61.8	56.2	39.4	33.7	39.4	28.1
87.5°	0.0	0.0	5.6	5.6	11.2	11.2	11.2	11.2	11.2	11.2	11.2
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°	3541.8	3541.8	3541.8	3541.8	3541.8	3541.8	3541.8	3541.8	3541.8	3541.8	3541.8
2.5°	3586.8	3564.3	3485.6	3401.3	3328.2	3361.9	3328.2	3300.1	3311.3	3300.1	3288.8
5°	3783.6	3682.4	3513.7	3440.6	3378.8	3373.2	3356.3	3350.7	3356.3	3356.3	3305.7
7.5°	3969.1	3806.1	3626.2	3547.4	3474.4	3480.0	3440.6	3440.6	3435.0	3406.9	3395.7
10°	4250.2	4030.9	3800.4	3659.9	3569.9	3553.1	3513.7	3474.4	3474.4	3474.4	3418.1
12.5°	4559.4	4283.9	3969.1	3806.1	3699.2	3614.9	3553.1	3541.8	3480.0	3468.7	3440.6
15°	4829.3	4480.7	4081.5	3856.7	3721.7	3609.3	3513.7	3451.9	3423.8	3406.9	3384.4
17.5°	5093.5	4649.3	4143.4	3856.7	3710.5	3581.2	3480.0	3423.8	3356.3	3367.5	3322.6
20°	5447.7	4829.3	4160.2	3783.6	3603.7	3480.0	3345.1	3316.9	3277.6	3243.9	3255.1
22.5°	5790.6	4958.6	4109.6	3693.6	3435.0	3288.8	3221.4	3187.6	3170.8	3142.7	3103.3
25°	6099.8	5099.1	4030.9	3530.6	3255.1	3148.3	3086.4	3080.8	3041.5	3041.5	2968.4
27.5°	6414.6	5149.7	3896.0	3339.4	3097.7	3035.9	3007.7	2996.5	2979.6	2940.3	2889.7
30°	6774.4	5166.6	3699.2	3142.7	2957.1	2889.7	2929.0	2957.1	2884.1	2811.0	2833.5
32.5°	7072.4	5127.2	3463.1	2957.1	2855.9	2822.2	2900.9	2929.0	2844.7	2766.0	2726.6
35°	7432.2	5031.6	3232.6	2811.0	2754.8	2822.2	2889.7	2889.7	2721.0	2625.4	2603.0
37.5°	7977.5	4924.8	3019.0	2687.3	2647.9	2788.5	2878.4	2816.6	2552.4	2434.3	2406.2
40°	8562.2	4857.4	2811.0	2563.6	2591.7	2732.3	2782.9	2591.7	2321.9	2248.8	2226.3
42.5°	9411.1	4722.4	2625.4	2456.8	2541.1	2653.6	2653.6	2310.6	2209.4	2170.1	2164.4
45°	10468.1	4626.9	2462.4	2366.8	2468.0	2496.1	2406.2	2164.4	2091.4	2080.1	2085.7
47.5°	10985.3	4441.3	2293.8	2260.0	2333.1	2338.7	2102.6	2046.4	1984.5	1967.7	1956.4
50°	10906.6	4109.6	2074.5	2119.5	2220.7	2164.4	1917.1	1928.3	1872.1	1866.5	1838.4
52.5°	10355.6	3586.8	1855.2	1962.1	2074.5	1911.5	1765.3	1754.0	1754.0	1681.0	1652.9
55°	9180.6	2889.7	1591.0	1725.9	1860.9	1607.9	1568.5	1557.3	1529.2	1461.7	1444.8
57.5°	7269.2	2119.5	1197.5	1343.6	1579.8	1366.1	1360.5	1309.9	1236.8	1186.2	1186.2
60°	4323.3	1220.0	753.3	820.8	1045.7	1107.5	1231.2	1208.7	1085.0	1006.3	983.8
62.5°	1973.3	629.7	477.9	489.1	562.2	719.6	967.0	1118.8	944.5	809.6	798.3
65°	663.4	466.6	393.5	376.7	387.9	432.9	579.1	792.7	753.3	624.0	601.5
67.5°	404.8	416.0	371.0	342.9	342.9	337.3	331.7	359.8	444.1	432.9	438.5
70°	348.6	382.3	342.9	309.2	298.0	281.1	236.1	196.8	168.7	196.8	208.0
72.5°	281.1	303.6	292.3	264.2	236.1	213.6	168.7	129.3	95.6	84.3	84.3
75°	208.0	224.9	236.1	202.4	179.9	151.8	123.7	84.3	50.6	33.7	33.7
77.5°	151.8	168.7	174.3	157.4	134.9	106.8	78.7	56.2	28.1	11.2	11.2
80°	129.3	151.8	168.7	157.4	140.5	101.2	73.1	39.4	22.5	5.6	5.6
82.5°	123.7	151.8	168.7	151.8	134.9	95.6	73.1	45.0	16.9	5.6	5.6
85°	28.1	39.4	50.6	61.8	73.1	73.1	56.2	33.7	16.9	5.6	5.6
87.5°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	5.6	5.6	0.0
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)