

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: P648443

Luminaire Tested: **GALN-SA5B-835-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648443  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-835-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13161.5 lumens  
Efficiency: N/A  
Efficacy: 64.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

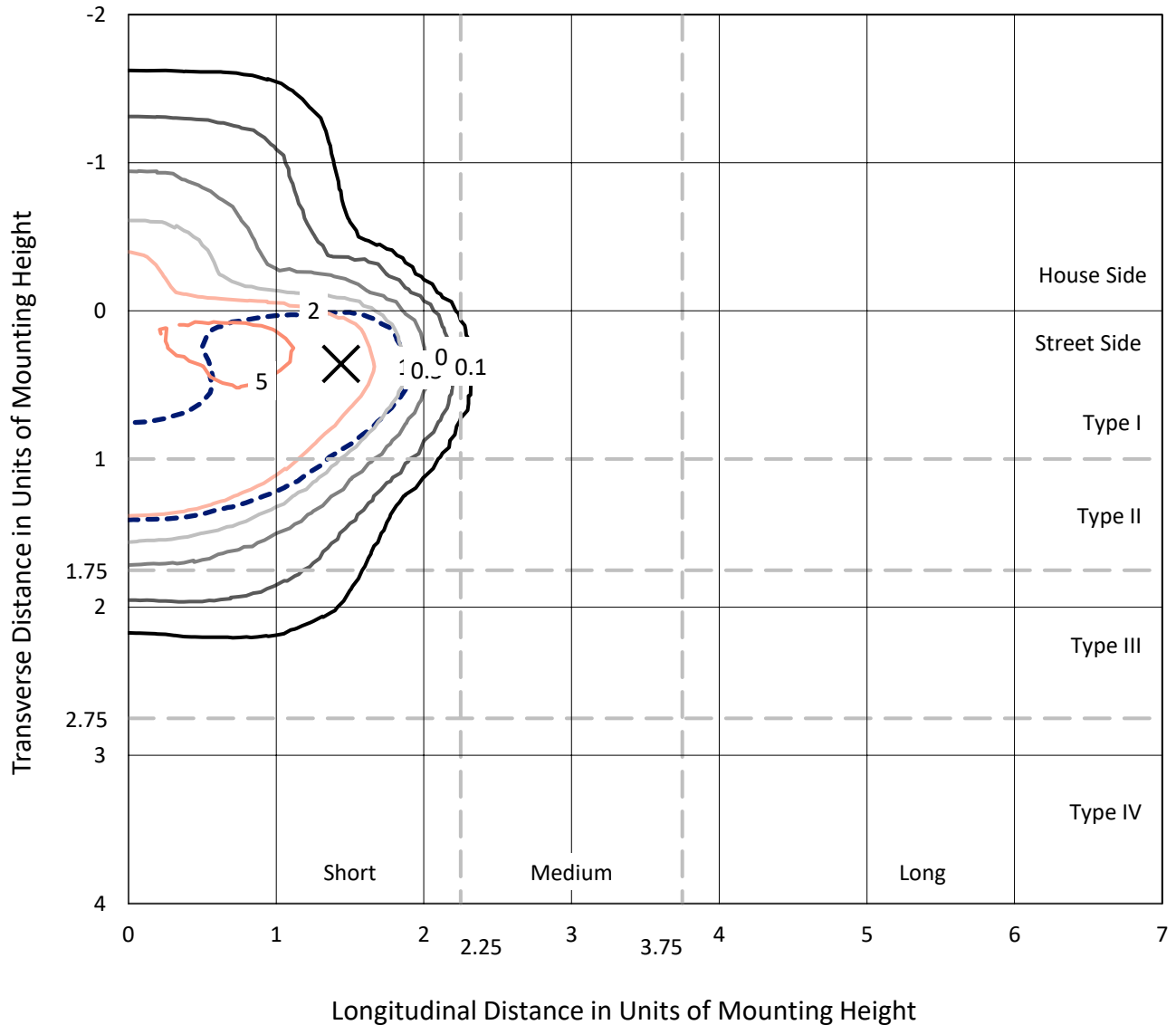
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

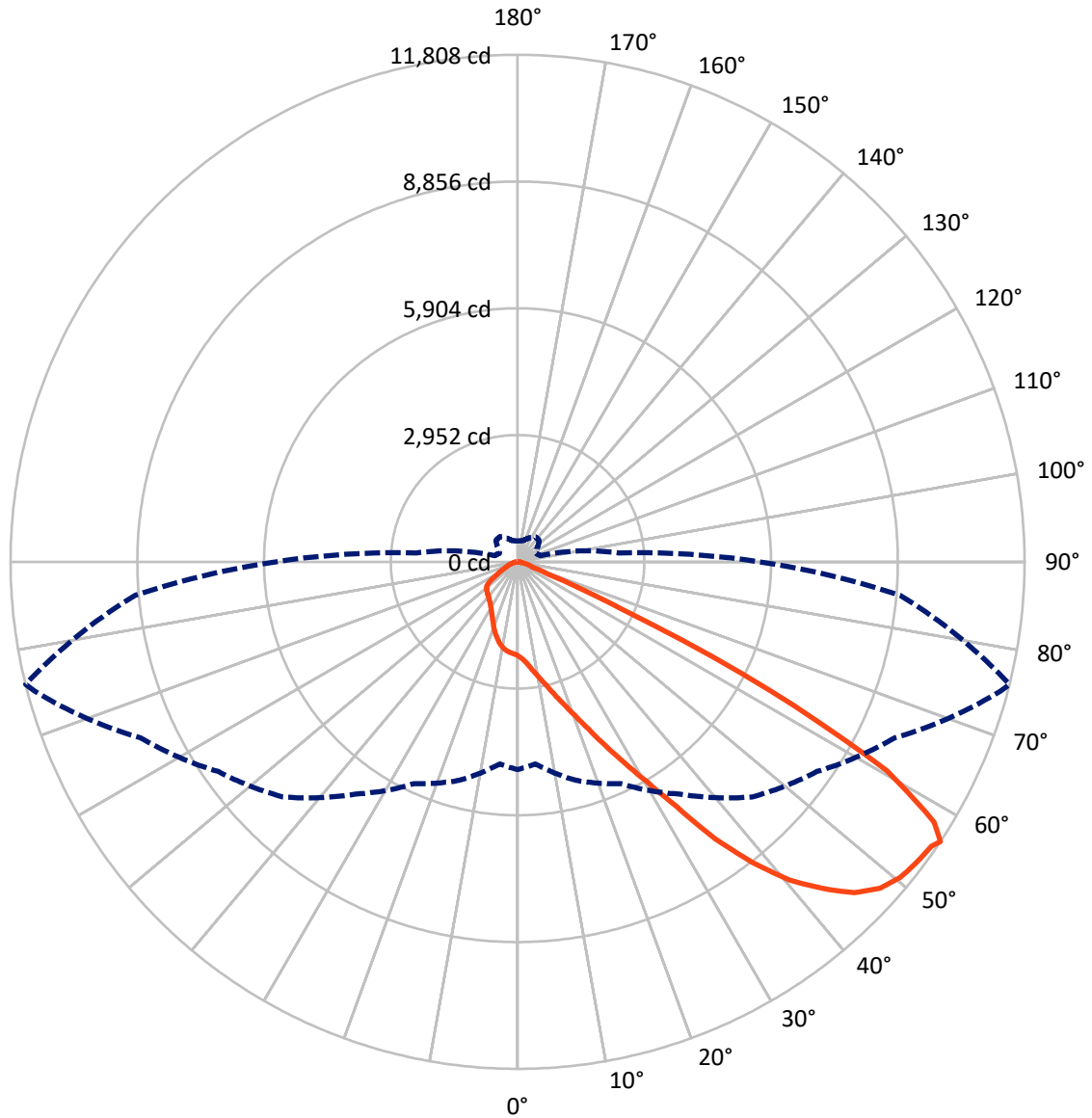
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical



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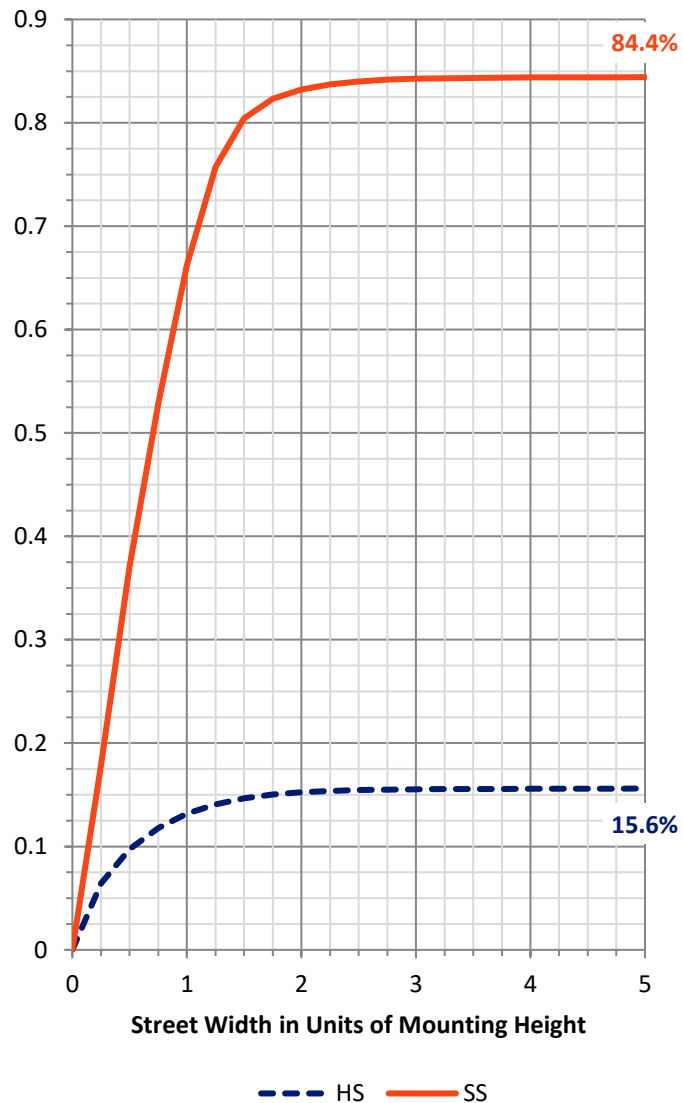
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2067.6	0.0	2067.6
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	11093.9	0.0	11093.9
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	13161.5	0.0	13161.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.7	1.7
10°-20°	709.0	5.4
20°-30°	1285.6	9.8
30°-40°	2217.0	16.8
40°-50°	3601.7	27.4
50°-60°	3796.3	28.8
60°-70°	1159.9	8.8
70°-80°	148.7	1.1
80°-90°	22.6	0.2
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°	13161.5	100.0
0°-180°	13161.5	100.0

**Coefficient of Utilization**



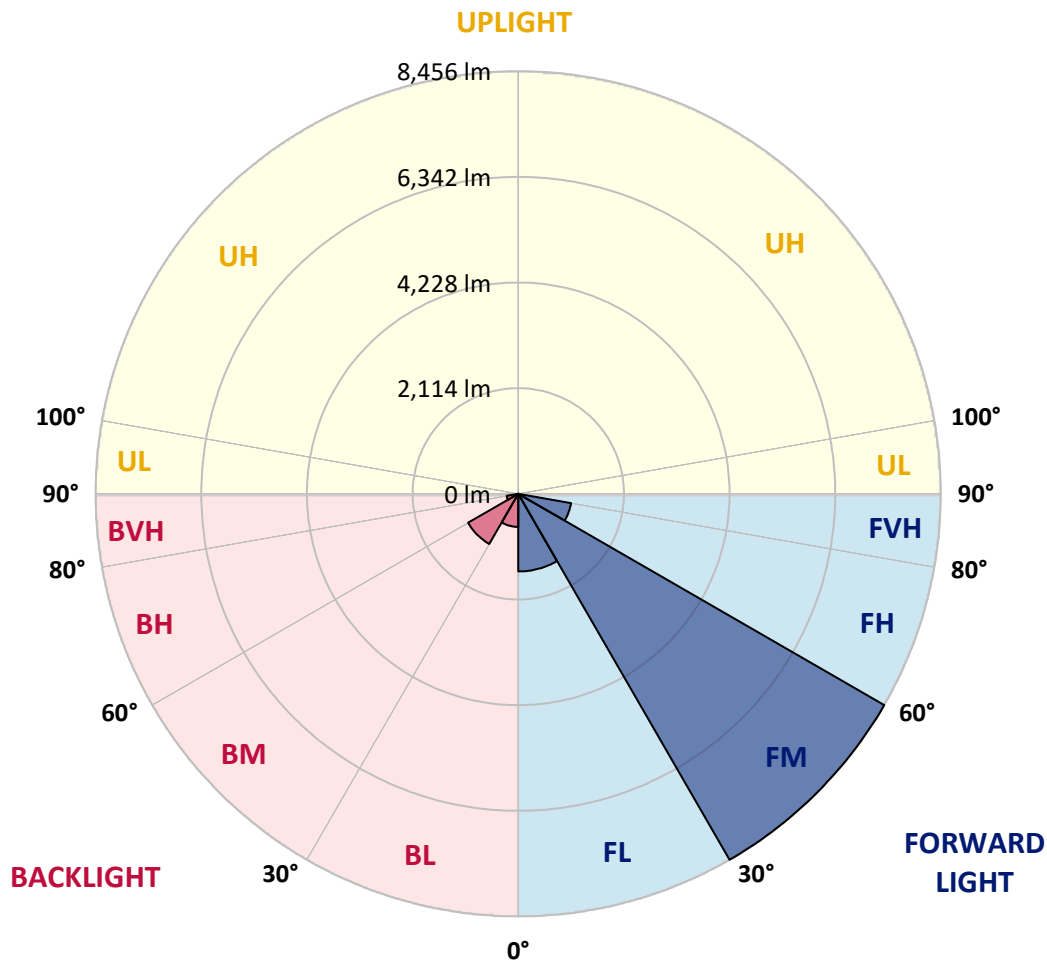
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1553.8	11.8			
FM (30°-60°)	8456.2	64.2			
FH (60°-80°)	1072.7	8.2			G1/1800
FVH (80°-90°)	11.1	0.1			G1/100
BL (0°-30°)	661.4	5.0	B2/1000		
BM (30°-60°)	1158.8	8.8	B2/2500		
BH (60°-80°)	235.9	1.8	B1/500		G1/500
BVH (80°-90°)	11.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8
2.5°	2523.1	2464.9	2467.3	2462.5	2455.2	2428.5	2348.5	2336.3	2282.9	2268.4	2219.9
5°	2826.4	2775.4	2804.5	2760.9	2719.6	2695.4	2564.3	2503.7	2418.8	2387.3	2319.3
7.5°	3015.6	2991.4	2981.7	2984.1	2945.3	2884.6	2826.4	2693.0	2578.9	2554.6	2411.5
10°	3107.8	3093.2	3107.8	3100.5	3117.5	3124.8	3022.8	2942.8	2775.4	2734.2	2511.0
12.5°	3129.7	3158.8	3170.8	3202.4	3243.7	3314.0	3306.8	3197.5	2974.4	2947.7	2663.8
15°	3183.0	3207.2	3195.1	3246.1	3323.8	3442.6	3505.6	3488.7	3248.5	3200.0	2841.0
17.5°	3231.5	3187.8	3229.1	3331.0	3408.6	3590.6	3743.4	3813.8	3546.9	3491.1	3003.5
20°	3297.1	3284.9	3277.6	3328.5	3466.9	3709.5	4012.7	4141.3	3881.7	3823.5	3236.4
22.5°	3495.9	3498.4	3493.5	3418.3	3517.8	3791.9	4248.1	4565.8	4282.0	4233.5	3500.8
25°	3758.0	3726.5	3702.2	3641.5	3629.4	3867.2	4485.8	5085.0	4762.4	4728.4	3787.1
27.5°	4034.6	4034.6	3961.7	3906.0	3828.3	4054.0	4704.2	5589.7	5342.2	5296.1	4037.0
30°	4335.4	4352.4	4342.7	4223.8	4175.3	4257.7	4927.3	6235.0	6006.9	5948.8	4449.4
32.5°	4779.4	4742.9	4784.2	4684.8	4541.6	4614.4	5279.1	6812.4	6870.7	6788.1	4990.5
35°	5366.4	5344.6	5318.0	5155.4	4985.6	5043.8	5776.5	7523.2	7955.1	7913.9	5536.3
37.5°	5892.9	5880.8	5859.0	5747.4	5550.8	5621.2	6341.8	8263.2	9012.9	8877.0	6307.8
40°	6446.0	6511.6	6441.2	6341.8	6162.2	6317.5	7006.5	8702.3	9903.2	9738.2	6897.3
42.5°	7195.7	7144.8	7176.4	6994.4	6897.3	7067.1	7673.6	9141.4	10594.6	10398.2	7523.2
45°	7993.9	7996.3	7911.4	7853.2	7600.9	7785.3	8083.7	9384.0	11145.4	10992.5	7996.3
47.5°	8505.8	8503.4	8595.5	8687.8	8428.1	8246.2	8362.7	9614.5	11429.2	11358.9	8168.6
50°	8425.8	8450.0	8568.9	8913.4	9049.2	8804.2	8624.7	9546.6	11557.8	11550.5	8316.6
52.5°	7329.2	7409.2	7608.2	8105.5	8789.6	9092.9	8898.8	9672.7	11620.9	11633.0	8537.4
55°	5580.0	5623.7	6002.1	6606.2	7363.1	8401.5	8789.6	9772.2	11669.4	11691.2	8804.2
56°	4840.0	4723.5	5269.4	5698.8	6603.7	7739.2	8513.1	9694.6	11640.3	11807.7	8937.6
57.5°	3653.6	3576.0	4017.6	4553.8	5424.7	6623.2	7654.3	9328.3	11443.8	11441.4	8746.0
60°	2222.3	2144.6	2484.3	2799.7	3287.3	4078.3	5172.4	7428.6	9675.1	9879.0	7081.7
62.5°	1322.2	1370.7	1705.5	1897.2	2054.9	2137.4	2676.0	4415.4	6455.8	6601.3	4393.6
65°	880.6	897.6	1150.0	1465.4	1535.7	1222.7	1089.3	1788.0	2799.7	2709.9	1812.3
67.5°	543.4	582.2	771.5	1101.4	1220.3	892.8	516.8	667.2	771.5	771.5	524.1
70°	330.0	349.4	514.4	749.6	837.0	575.0	376.1	376.1	371.2	363.9	313.0
72.5°	157.7	169.8	262.0	385.8	393.0	303.3	291.1	317.8	310.5	308.1	259.6
75°	68.0	72.8	92.2	121.3	138.3	128.6	177.1	228.1	235.3	228.1	186.8
77.5°	21.8	24.3	34.0	43.7	46.1	55.8	75.2	94.6	109.2	101.9	92.2
80°	2.4	4.9	9.7	21.8	34.0	43.7	55.8	63.1	70.4	70.4	65.5
82.5°	2.4	2.4	9.7	19.4	31.6	41.3	53.4	60.7	70.4	72.8	68.0
85°	0.0	2.4	7.3	17.0	26.7	26.7	24.3	24.3	17.0	17.0	17.0
87.5°	0.0	0.0	2.4	2.4	2.4	4.9	4.9	4.9	4.9	4.9	4.9
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°	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8
2.5°	2210.2	2205.3	2139.8	2098.5	2076.8	2033.1	2006.4	1986.9	1972.4	1955.4	1957.8
5°	2239.3	2222.3	2113.1	2037.9	1948.1	1899.6	1858.4	1824.4	1802.5	1797.7	1788.0
7.5°	2321.8	2232.0	2067.0	1931.2	1817.1	1768.6	1732.2	1710.4	1720.1	1698.2	1715.2
10°	2384.9	2251.4	2011.2	1814.7	1700.7	1664.3	1644.8	1661.8	1686.1	1676.4	1664.3
12.5°	2462.5	2270.8	1921.5	1703.1	1596.4	1569.7	1603.7	1635.1	1683.7	1703.1	1678.8
15°	2549.8	2292.6	1807.4	1574.5	1506.6	1528.4	1586.7	1642.4	1691.0	1715.2	1729.8
17.5°	2656.6	2285.3	1695.8	1472.6	1421.7	1484.7	1555.1	1606.1	1678.8	1715.2	1705.5
20°	2756.0	2261.1	1572.1	1370.7	1373.1	1431.4	1489.6	1572.1	1610.9	1659.4	1642.4
22.5°	2850.7	2217.5	1443.5	1300.4	1300.4	1390.1	1419.3	1472.6	1506.6	1530.8	1528.4
25°	2984.1	2134.9	1336.7	1232.4	1261.6	1319.7	1344.0	1361.0	1346.4	1365.9	1368.3
27.5°	3078.7	2050.1	1249.4	1171.8	1225.2	1268.9	1261.6	1251.9	1217.9	1191.2	1208.2
30°	3180.5	1950.5	1174.2	1130.6	1159.7	1198.5	1169.3	1140.3	1086.9	1043.2	1045.6
32.5°	3326.1	1904.5	1108.7	1082.0	1120.9	1125.7	1094.2	1050.5	997.2	955.9	953.5
35°	3597.9	1875.4	1052.9	1050.5	1057.8	1060.2	1028.6	975.3	953.5	919.5	931.6
37.5°	3869.6	1860.8	1014.1	1004.4	1002.0	1004.4	968.0	917.0	958.3	955.9	960.7
40°	4216.5	1926.3	958.3	946.2	948.6	948.6	902.5	887.9	960.7	968.0	970.5
42.5°	4568.3	2008.8	921.9	883.1	892.8	892.8	868.5	851.5	902.5	853.9	846.7
45°	4873.9	2130.1	883.1	820.0	844.3	856.4	849.2	820.0	788.5	706.0	706.0
47.5°	4973.5	2236.9	837.0	759.4	778.8	832.2	810.3	749.6	693.9	625.9	621.1
50°	5148.1	2353.3	800.6	689.0	730.2	795.8	773.9	713.2	650.2	601.7	604.1
52.5°	5327.7	2486.7	732.7	606.5	657.5	766.6	766.6	698.7	601.7	567.7	562.8
55°	5597.0	2481.9	611.4	497.4	587.1	722.9	735.1	625.9	538.6	511.9	511.9
56°	5635.8	2370.3	550.7	465.8	555.5	710.8	713.2	606.5	514.4	485.2	485.2
57.5°	5344.6	2139.8	482.8	427.0	516.8	689.0	691.5	589.5	494.9	453.7	448.8
60°	4112.2	1448.4	402.7	380.9	468.2	621.1	633.2	536.2	434.3	402.7	400.3
62.5°	2321.8	803.0	354.2	344.5	402.7	528.9	565.2	468.2	368.8	351.8	356.7
65°	1060.2	441.5	298.4	279.0	325.1	407.6	456.1	385.8	303.3	283.8	283.8
67.5°	388.1	300.8	254.7	220.8	228.1	264.4	296.0	249.9	201.4	172.3	179.5
70°	276.6	252.3	223.2	191.7	177.1	172.3	169.8	140.7	99.4	77.6	82.4
72.5°	223.2	208.7	186.8	162.6	138.3	116.4	99.4	72.8	46.1	31.6	29.1
75°	160.1	152.8	135.9	116.4	97.0	82.4	68.0	46.1	24.3	12.1	12.1
77.5°	82.4	82.4	80.0	72.8	60.7	48.5	38.8	26.7	14.6	4.9	4.9
80°	63.1	68.0	70.4	63.1	55.8	43.7	31.6	19.4	9.7	2.4	2.4
82.5°	60.7	70.4	75.2	65.5	55.8	41.3	31.6	19.4	9.7	2.4	2.4
85°	14.6	14.6	21.8	24.3	31.6	34.0	26.7	17.0	7.3	2.4	2.4
87.5°	4.9	4.9	4.9	4.9	4.9	4.9	2.4	2.4	2.4	2.4	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)