

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: P648121

Luminaire Tested: **GALN-SA8A-835-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648121
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-835-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17266.7 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

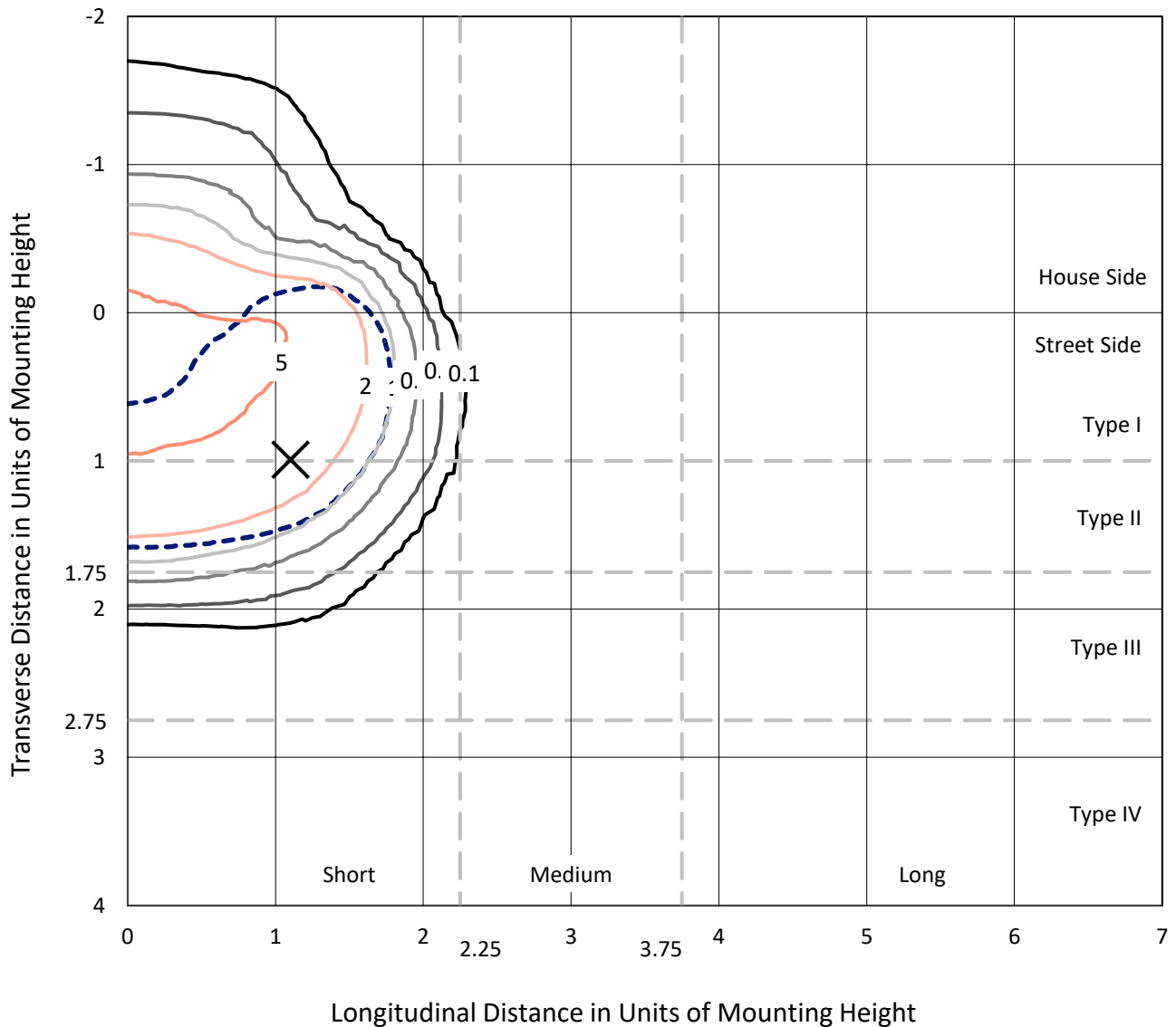
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

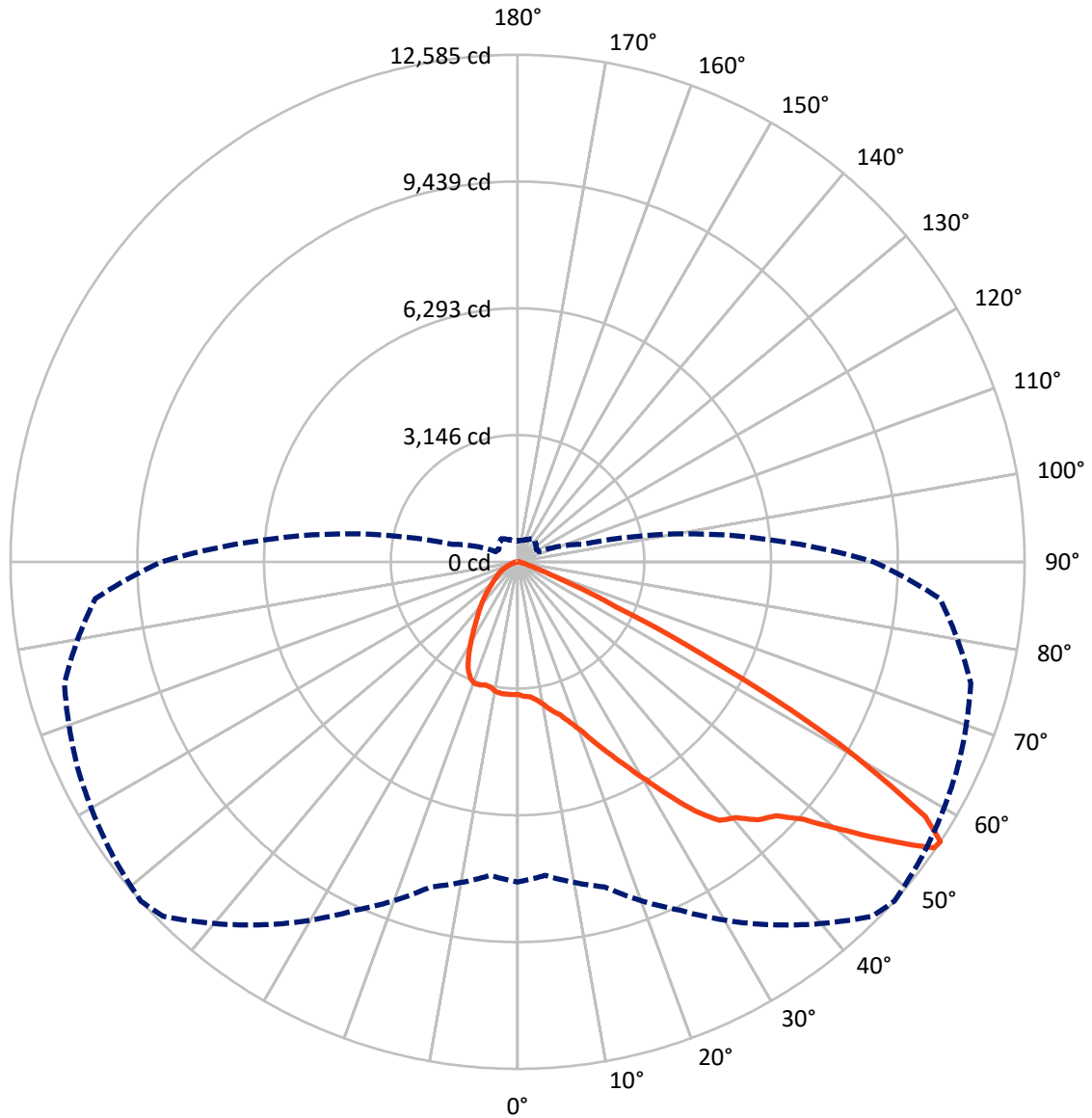
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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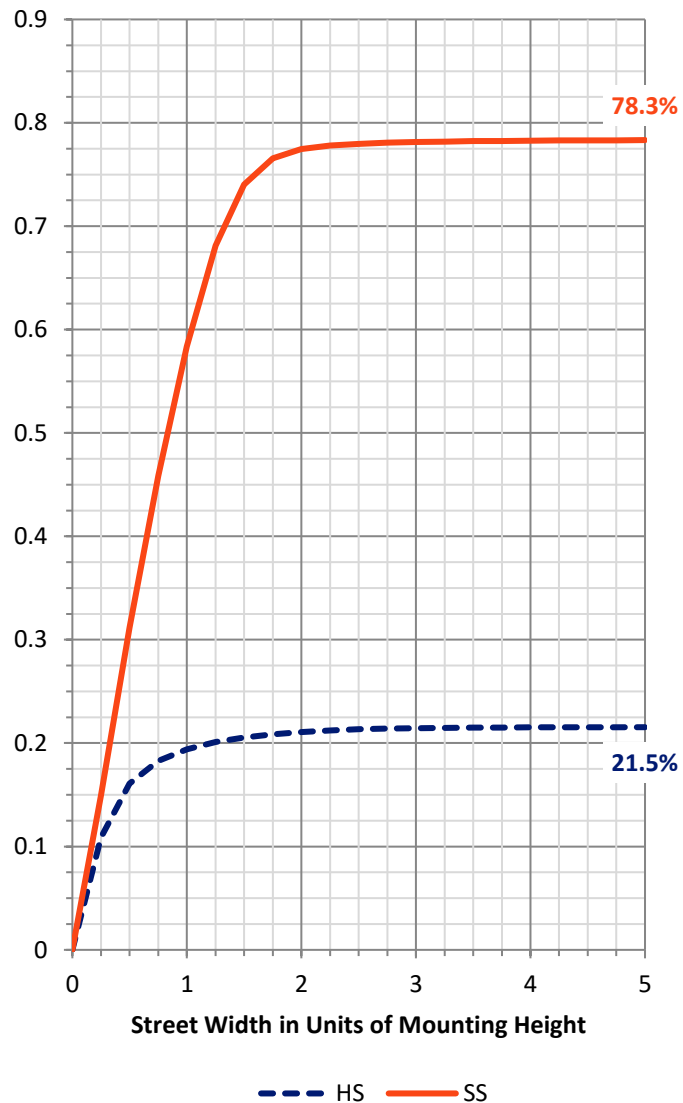
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3755.2	0.0	3755.2
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	13511.5	0.0	13511.5
	% Fixture	78.3	0.0	78.3
Total	Lumens	17266.7	0.0	17266.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.3	1.9
10°-20°	1026.7	5.9
20°-30°	1862.2	10.8
30°-40°	2925.1	16.9
40°-50°	4267.2	24.7
50°-60°	5141.2	29.8
60°-70°	1505.3	8.7
70°-80°	191.0	1.1
80°-90°	26.8	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°	17266.7	100.0
0°-180°	17266.7	100.0

Coefficient of Utilization



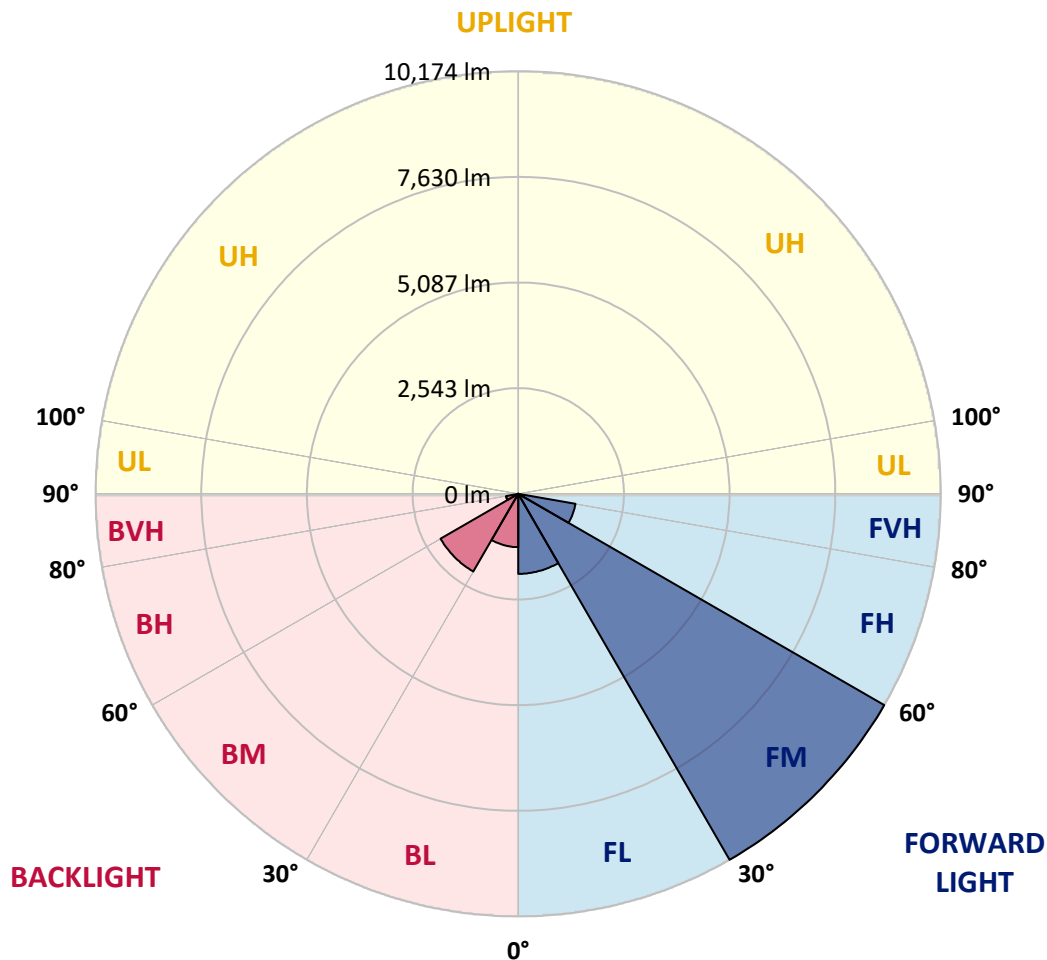
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1926.6	11.2			
FM (30°-60°)	10173.6	58.9			
FH (60°-80°)	1397.9	8.1			G1/1800
FVH (80°-90°)	13.4	0.1			G1/100
BL (0°-30°)	1283.5	7.4	B3/2500		
BM (30°-60°)	2160.0	12.5	B2/2500		
BH (60°-80°)	298.4	1.7	B1/500		G1/500
BVH (80°-90°)	13.3	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3297.9	3297.9	3297.9	3297.9	3297.9	3297.9	3297.9	3297.9	3297.9	3297.9	3297.9
2.5°	3357.7	3342.0	3342.0	3316.8	3345.1	3332.5	3342.0	3310.5	3342.0	3294.8	3332.5
5°	3373.4	3376.5	3364.0	3379.7	3379.7	3398.5	3367.1	3395.4	3411.1	3376.5	3360.8
7.5°	3455.1	3461.4	3458.3	3445.7	3470.9	3467.8	3464.5	3442.5	3448.9	3436.3	3417.4
10°	3615.5	3612.4	3628.0	3596.6	3577.8	3599.8	3606.0	3571.5	3546.3	3536.9	3477.1
12.5°	3848.1	3810.4	3788.4	3757.0	3766.4	3735.0	3791.5	3731.8	3719.2	3662.6	3602.9
15°	4036.8	4030.5	4033.6	3983.4	3926.7	3939.3	3939.3	3907.9	3889.0	3819.9	3735.0
17.5°	4423.5	4291.4	4319.7	4256.9	4209.6	4206.5	4178.2	4184.5	4134.2	3989.6	3860.7
20°	4725.2	4668.7	4624.7	4517.8	4445.5	4467.5	4454.9	4423.5	4407.7	4219.1	4036.8
22.5°	4995.6	5014.5	4942.2	4914.0	4813.3	4822.7	4847.9	4819.6	4700.1	4505.2	4234.9
25°	5376.1	5354.1	5256.6	5222.0	5127.7	5162.3	5259.7	5237.7	5162.3	4810.2	4388.9
27.5°	5825.7	5750.2	5769.1	5611.8	5520.7	5618.2	5734.5	5844.5	5630.7	5168.6	4571.2
30°	6143.2	6064.6	6058.3	6052.0	6030.0	6143.2	6278.3	6378.9	6206.1	5527.0	4873.1
32.5°	6300.4	6319.2	6372.7	6353.8	6545.6	6778.3	6919.7	7064.3	6847.4	6111.7	5272.3
35°	6718.5	6599.0	6718.5	6731.1	6929.2	7422.8	7601.9	7947.8	7894.4	6938.6	5759.6
37.5°	6963.8	6954.3	6970.0	7089.5	7281.3	7891.2	8145.9	8413.1	8312.5	7435.3	6366.4
40°	7369.3	7394.4	7391.3	7482.5	7693.1	8243.3	8347.0	8564.0	8573.4	8123.9	7259.3
42.5°	8020.1	7919.5	7853.5	7947.8	8243.3	8548.2	8755.7	8711.7	9023.0	8960.1	8406.8
45°	8604.9	8664.6	8567.1	8724.3	8831.2	8994.7	8988.4	9082.7	9478.8	9777.6	9271.3
47.5°	9151.9	9189.6	9236.7	9343.7	9576.3	9601.5	9548.1	9507.2	10054.2	10362.3	9941.0
50°	9478.8	9513.4	9733.5	9925.3	10359.2	10415.7	10447.2	10343.4	10714.4	10749.0	10572.9
52.5°	9390.8	9428.6	9736.7	10368.6	11060.3	11579.0	11484.7	11308.6	11286.6	11421.8	11157.7
55°	8611.1	8576.6	9001.0	9985.1	11280.3	12525.3	12537.9	12352.4	11997.1	11906.0	11069.7
56°	7947.8	7812.6	8353.4	9541.7	10997.4	12443.5	12585.0	12387.0	12053.7	11645.0	10525.8
57.5°	6511.0	6639.9	7177.5	8161.6	10019.6	11855.6	11937.4	11890.2	11638.7	10953.3	9262.0
60°	3590.4	3816.7	4291.4	5495.6	7133.5	9098.5	9164.5	9548.1	9595.2	8387.9	6372.7
62.5°	1524.8	1499.6	1993.2	2879.8	4061.9	5492.4	5615.0	6008.0	6080.3	4835.3	3197.4
65°	619.4	654.0	902.3	1449.3	2147.3	2502.5	2675.4	2804.4	3043.3	1996.4	1179.0
67.5°	408.7	405.6	531.3	826.8	1157.0	1116.1	1116.1	1179.0	1091.0	814.2	509.3
70°	292.4	301.8	380.4	572.2	720.0	534.5	512.5	490.5	556.5	537.6	411.9
72.5°	191.8	204.4	254.6	342.7	374.1	292.4	292.4	352.1	459.0	433.9	336.4
75°	125.7	128.9	157.2	198.1	185.5	150.9	166.6	235.8	333.2	320.7	239.0
77.5°	84.9	88.0	106.9	128.9	103.7	84.9	91.1	119.5	163.5	163.5	125.7
80°	31.5	34.6	44.0	40.9	47.1	59.7	66.0	81.7	97.5	97.5	84.9
82.5°	0.0	3.1	9.4	22.0	34.6	47.1	53.5	62.9	72.3	81.7	78.6
85°	0.0	3.1	9.4	15.7	25.1	28.3	31.5	22.0	18.9	18.9	15.7
87.5°	0.0	0.0	3.1	3.1	3.1	3.1	3.1	3.1	6.3	3.1	3.1
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°	3297.9	3297.9	3297.9	3297.9	3297.9	3297.9	3297.9	3297.9	3297.9	3297.9	3297.9
2.5°	3297.9	3294.8	3294.8	3285.4	3304.3	3294.8	3301.1	3297.9	3257.0	3288.5	3266.5
5°	3332.5	3354.5	3319.9	3313.7	3288.5	3297.9	3297.9	3266.5	3294.8	3291.7	3285.4
7.5°	3420.5	3382.9	3345.1	3307.4	3301.1	3291.7	3257.0	3244.5	3266.5	3241.4	3279.1
10°	3458.3	3464.5	3408.0	3357.7	3310.5	3244.5	3197.4	3169.0	3134.5	3172.2	3194.2
12.5°	3631.2	3568.3	3470.9	3392.3	3231.9	3165.9	3118.8	3106.2	3165.9	3178.5	3156.5
15°	3690.9	3681.5	3555.8	3379.7	3213.0	3134.5	3143.9	3118.8	3125.0	3093.6	3099.9
17.5°	3813.5	3706.6	3558.9	3338.8	3209.9	3191.0	3134.5	3033.9	2977.3	2952.1	2974.1
20°	3948.7	3845.0	3631.2	3354.5	3238.3	3187.9	3002.4	2879.8	2763.5	2700.6	2703.8
22.5°	4068.2	3939.3	3599.8	3360.8	3263.4	3055.9	2832.7	2590.6	2445.9	2348.5	2351.7
25°	4212.9	4030.5	3612.4	3373.4	3197.4	2845.3	2524.5	2288.8	2115.8	2049.8	2071.8
27.5°	4294.6	4087.1	3681.5	3401.7	3024.4	2546.6	2200.7	1980.7	1880.1	1848.6	1845.5
30°	4539.8	4212.9	3766.4	3345.1	2735.2	2225.9	1905.2	1770.0	1672.6	1644.2	1650.6
32.5°	4904.5	4442.4	3876.4	3197.4	2439.7	1939.8	1713.4	1612.8	1521.7	1468.2	1461.9
35°	5209.5	4835.3	3992.8	2967.8	2097.0	1719.7	1578.2	1452.5	1314.2	1254.4	1238.7
37.5°	5791.1	5278.6	3967.6	2622.0	1770.0	1556.2	1433.6	1279.6	1160.1	1078.3	1069.0
40°	6564.4	5797.3	3845.0	2200.7	1527.9	1411.6	1279.6	1131.8	984.1	914.9	908.6
42.5°	7504.5	6432.4	3621.8	1773.2	1285.8	1267.0	1147.5	977.7	845.7	795.4	798.6
45°	8268.5	6976.3	3395.4	1424.2	1106.6	1125.5	1021.7	861.5	770.2	729.4	729.4
47.5°	8947.6	7344.1	3150.2	1175.8	940.0	984.1	892.9	798.6	720.0	688.5	682.2
50°	9601.5	7718.3	2904.9	952.6	801.7	845.7	836.2	760.8	698.0	660.2	663.4
52.5°	10010.2	7778.0	2593.7	779.7	701.1	751.4	782.8	713.6	644.5	622.5	616.2
55°	9510.3	7007.8	2012.1	641.4	594.2	660.2	720.0	641.4	587.9	550.2	547.0
56°	8837.5	6265.8	1682.0	591.1	562.7	635.1	698.0	613.1	553.3	531.3	515.6
57.5°	7482.5	5127.7	1241.8	525.0	521.9	591.1	663.4	584.7	515.6	496.7	496.7
60°	4665.6	2886.1	751.4	440.1	452.7	525.0	597.4	521.9	459.0	459.0	468.5
62.5°	2125.3	1201.0	455.9	374.1	389.9	452.7	531.3	471.6	437.0	471.6	477.9
65°	723.1	518.7	330.1	298.6	308.1	374.1	455.9	477.9	474.7	496.7	509.3
67.5°	405.6	333.2	276.6	248.4	242.1	276.6	374.1	477.9	459.0	449.6	455.9
70°	342.7	283.0	245.2	220.1	210.6	223.2	289.2	361.5	323.8	314.4	308.1
72.5°	276.6	235.8	213.8	198.1	169.8	144.6	132.0	138.4	154.0	163.5	179.2
75°	194.9	179.2	179.2	160.4	122.6	91.1	72.3	59.7	40.9	28.3	31.5
77.5°	110.0	110.0	113.1	97.5	78.6	59.7	44.0	31.5	15.7	6.3	3.1
80°	75.5	81.7	88.0	78.6	66.0	53.5	37.7	22.0	9.4	0.0	0.0
82.5°	75.5	84.9	91.1	78.6	66.0	50.3	37.7	22.0	9.4	3.1	0.0
85°	15.7	18.9	22.0	25.1	37.7	37.7	28.3	18.9	9.4	3.1	0.0
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	0.0	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)