

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: P531126

Luminaire Tested: **GALN-SA6B-827-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531126
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-827-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20806 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

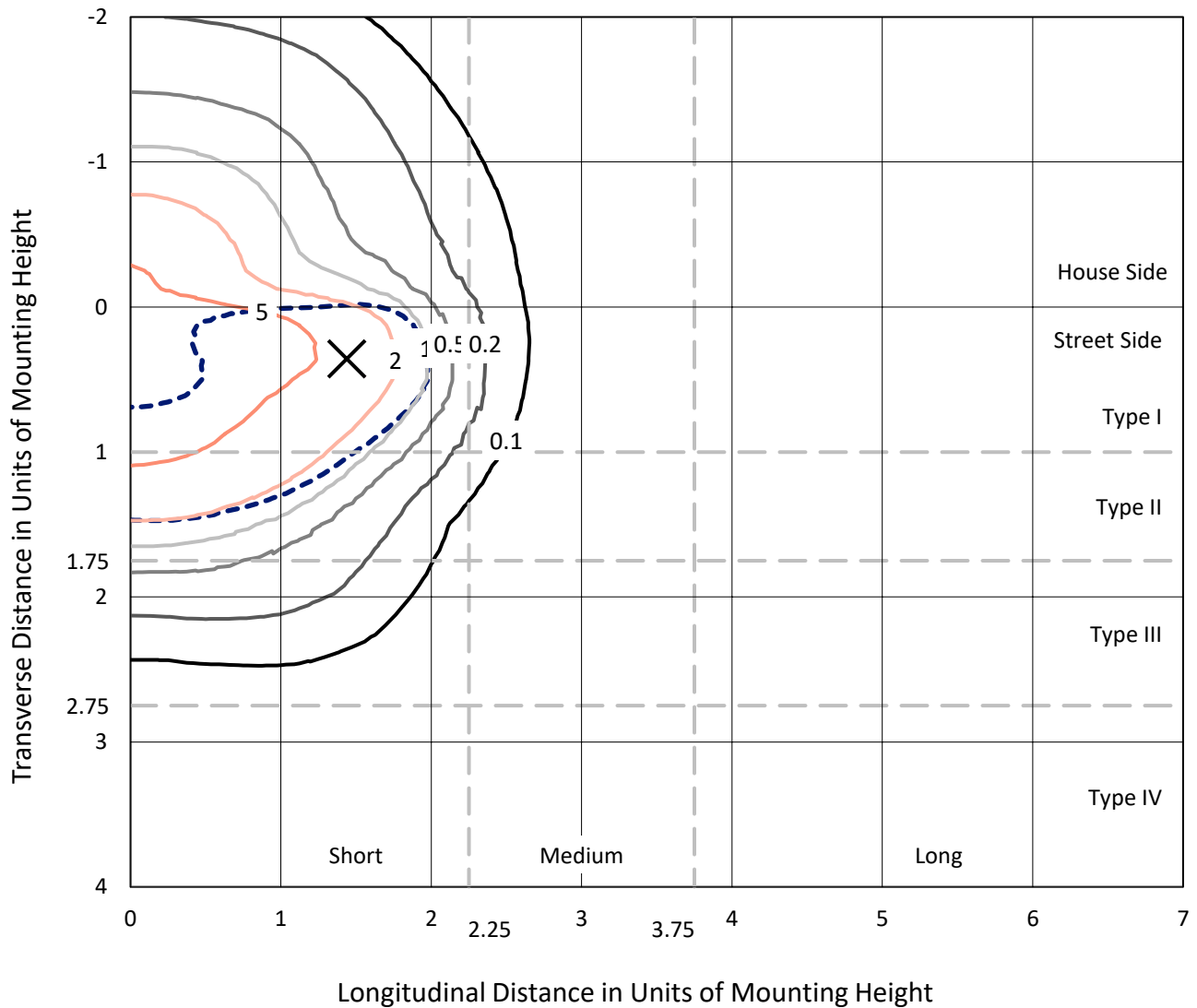
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

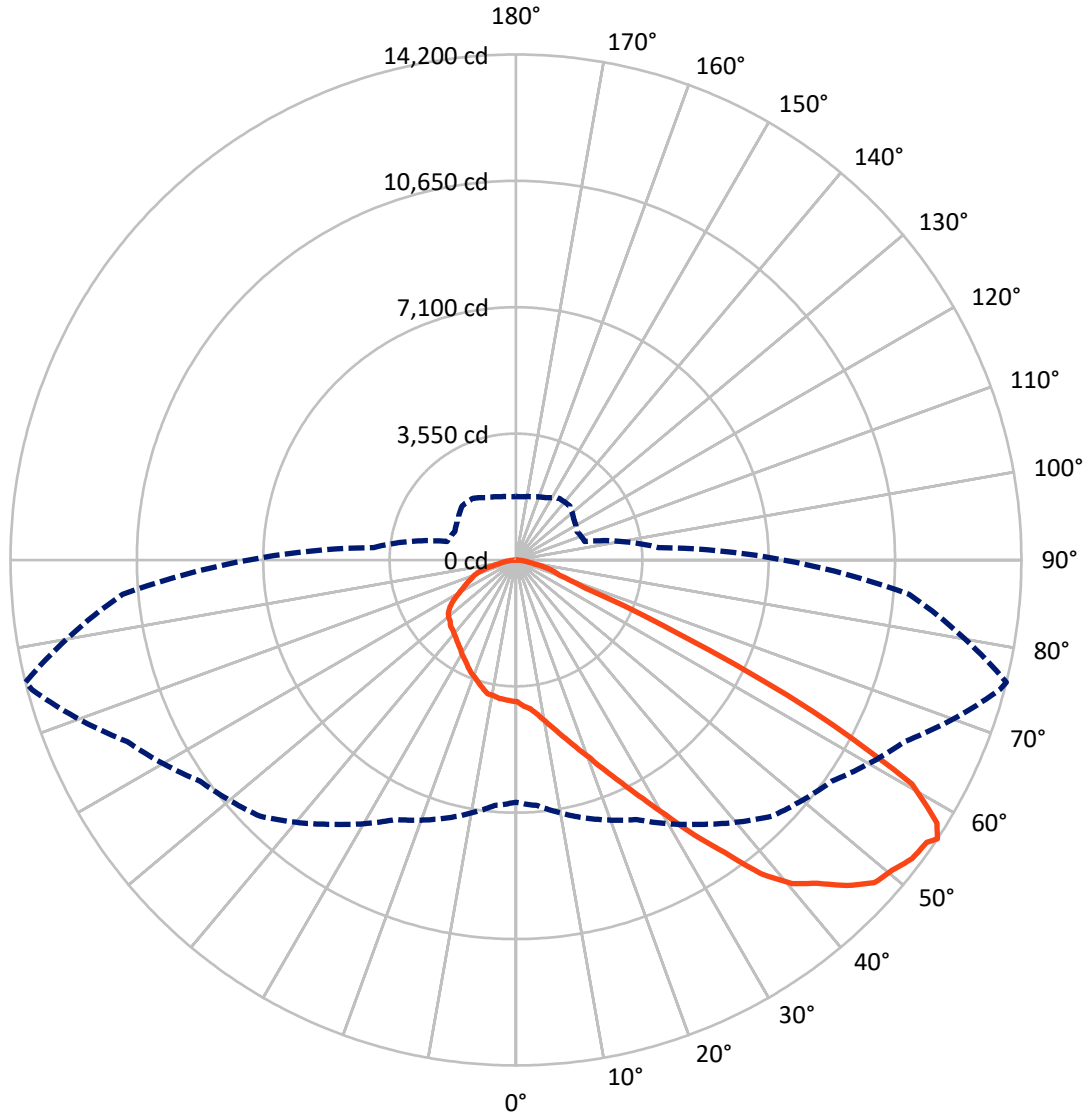
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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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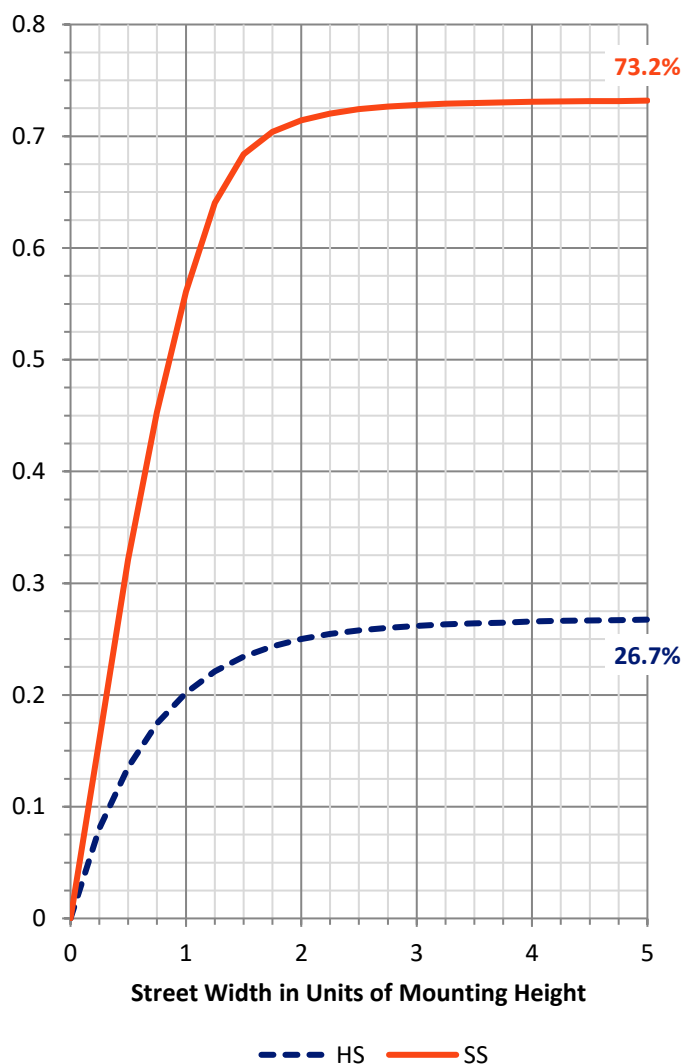
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5594.1	0.0	5594.1
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	15211.9	0.0	15211.9
	% Fixture	73.1	0.0	73.1
Total	Lumens	20806.0	0.0	20806.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.8	1.9
10°-20°	1240.2	6.0
20°-30°	2168.9	10.4
30°-40°	3395.8	16.3
40°-50°	4940.0	23.7
50°-60°	5429.4	26.1
60°-70°	2423.4	11.6
70°-80°	700.0	3.4
80°-90°	113.5	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°	20806.0	100.0
0°-180°	20806.0	100.0

Coefficient of Utilization



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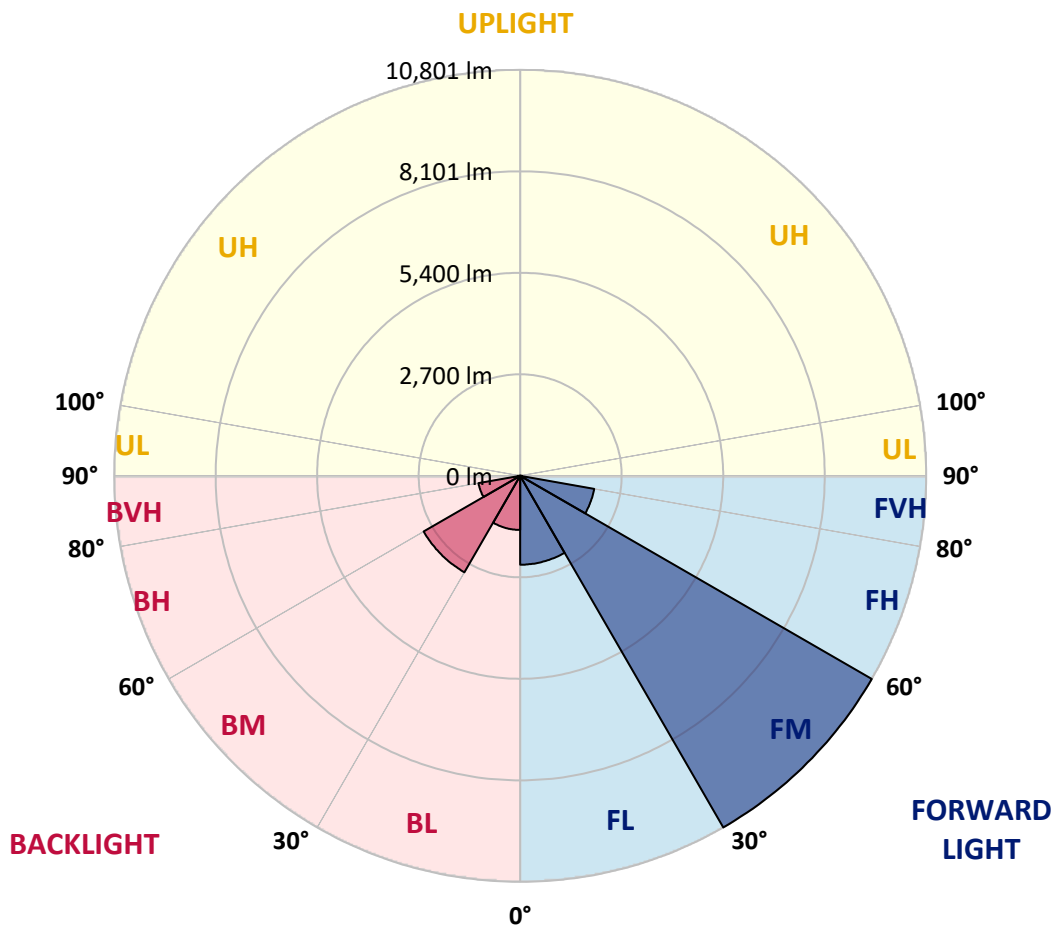
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2364.4	11.4			
FM (30°-60°)	10800.8	51.9			
FH (60°-80°)	1997.9	9.6			G2/5000
FVH (80°-90°)	48.9	0.2			G1/100
BL (0°-30°)	1439.5	6.9	B3/2500		
BM (30°-60°)	2964.4	14.2	B3/5000		
BH (60°-80°)	1125.5	5.4	B3/2500		G3/2500
BVH (80°-90°)	64.7	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°	76°	85°
0°	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0
2.5°	4385.5	4315.4	4310.0	4291.1	4301.9	4253.4	4202.1	4134.7	4064.6	4107.7	4005.2
5°	4693.0	4598.6	4636.4	4571.6	4579.7	4515.0	4409.8	4331.6	4245.3	4194.0	4121.2
7.5°	4800.9	4809.0	4836.0	4825.2	4771.2	4771.2	4701.1	4563.5	4412.5	4382.8	4261.5
10°	4946.5	4949.2	4919.6	4927.7	5003.2	4968.1	4906.1	4846.7	4652.5	4617.5	4401.7
12.5°	4997.8	4949.2	4997.8	5040.9	5129.9	5178.5	5165.0	5121.8	4914.2	4889.9	4574.3
15°	5005.9	4976.2	5016.7	5113.8	5192.0	5397.0	5499.4	5469.8	5194.7	5197.4	4768.5
17.5°	4968.1	5008.6	5024.7	5108.4	5289.1	5480.6	5777.2	5817.7	5591.1	5556.1	5014.0
20°	5019.4	4989.7	5011.3	5086.8	5326.8	5626.2	6014.6	6281.6	5963.4	5939.1	5267.5
22.5°	5216.2	5175.8	5170.4	5218.9	5391.6	5701.7	6265.4	6745.5	6416.5	6430.0	5583.1
25°	5370.0	5391.6	5372.7	5370.0	5477.9	5815.0	6597.2	7298.4	7031.4	6953.2	5955.3
27.5°	5634.3	5685.5	5647.8	5699.0	5674.8	5984.9	6834.5	7910.7	7694.9	7589.7	6292.4
30°	6001.1	6028.1	5993.0	5993.0	5920.2	6222.3	7050.3	8549.9	8460.9	8317.9	6688.9
32.5°	6483.9	6524.4	6454.2	6413.8	6403.0	6575.6	7438.7	9181.0	9332.1	9210.7	7214.8
35°	7123.1	7098.8	7015.2	6977.5	6831.8	7117.7	8015.9	9906.6	10303.0	10087.3	7851.3
37.5°	7686.8	7649.1	7643.7	7433.3	7468.3	7703.0	8506.7	10456.8	11244.3	11182.3	8522.9
40°	8212.8	8247.8	8304.5	8185.8	8131.8	8390.8	9078.5	10877.5	11975.2	11951.0	9040.8
42.5°	8776.5	8744.1	8843.9	8744.1	8663.2	9030.0	9698.9	11168.8	12617.2	12417.6	9582.9
45°	9593.7	9491.2	9526.3	9534.3	9475.0	9609.9	9955.1	11379.2	13067.6	13046.0	9979.4
47.5°	10276.1	10278.8	10219.4	10173.6	9992.9	10127.7	10241.0	11511.3	13585.4	13550.4	10133.1
50°	10529.6	10494.5	10667.1	10766.9	10777.7	10502.6	10464.9	11584.2	13857.8	13704.1	10286.8
52.5°	9618.0	9650.3	9922.7	10516.1	10858.6	10888.3	10726.5	11735.2	13968.4	13936.1	10410.9
55°	7740.8	7897.2	8344.9	9030.0	9841.8	10734.6	11009.7	11891.6	14027.8	14000.8	10961.1
56°	6804.9	6926.2	7508.8	8045.5	9065.0	10176.3	10831.7	12058.9	14073.6	14200.4	11090.6
57.5°	5477.9	5618.1	6036.2	6645.7	7848.6	9113.6	10340.8	11853.9	13895.6	13944.2	11185.0
60°	3425.4	3438.8	3940.5	4342.4	5189.3	6424.6	7891.8	10313.8	12859.9	12789.8	10046.8
62.5°	2246.7	2249.4	2705.2	3034.3	3420.0	3703.2	4644.5	6839.9	9488.5	9364.4	7152.8
65°	1577.8	1612.9	1966.2	2405.8	2562.3	2413.9	2384.3	3606.1	5299.9	5121.8	3843.4
67.5°	1154.4	1157.1	1469.9	1941.9	2168.5	1836.7	1491.5	1761.2	2098.4	2093.0	1780.1
70°	763.3	795.7	1035.7	1451.1	1710.0	1475.3	1219.1	1259.6	1335.1	1335.1	1324.3
72.5°	445.0	474.7	633.8	919.7	960.2	922.4	965.6	1078.9	1127.4	1124.7	1111.2
75°	253.5	267.0	302.1	383.0	477.4	563.7	709.3	817.2	865.8	895.4	860.4
77.5°	148.3	156.4	178.0	218.5	248.1	304.8	385.7	461.2	525.9	517.8	523.2
80°	78.2	78.2	99.8	129.5	172.6	215.8	256.2	299.4	334.4	342.5	350.6
82.5°	45.9	48.5	64.7	94.4	124.1	153.7	196.9	226.6	258.9	261.6	267.0
85°	24.3	27.0	40.5	62.0	83.6	94.4	97.1	91.7	99.8	94.4	107.9
87.5°	8.1	8.1	13.5	10.8	10.8	13.5	16.2	16.2	21.6	21.6	21.6
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°	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0
2.5°	4002.5	4002.5	3956.7	3870.4	3856.9	3821.8	3789.5	3786.8	3762.5	3740.9	3730.1
5°	4078.1	3994.4	3927.0	3848.8	3757.1	3713.9	3665.4	3611.5	3589.9	3611.5	3608.8
7.5°	4164.4	4094.2	3892.0	3746.3	3641.1	3598.0	3544.0	3487.4	3492.8	3492.8	3455.0
10°	4248.0	4153.6	3829.9	3643.8	3490.1	3457.7	3428.0	3449.6	3476.6	3482.0	3457.7
12.5°	4388.2	4175.2	3800.3	3541.3	3444.2	3374.1	3393.0	3452.3	3509.0	3492.8	3511.7
15°	4493.4	4194.0	3665.4	3436.1	3314.8	3347.1	3414.6	3455.0	3549.4	3538.6	3557.5
17.5°	4595.9	4204.8	3533.2	3295.9	3244.6	3333.7	3384.9	3500.9	3530.5	3595.3	3619.5
20°	4806.3	4226.4	3398.4	3209.6	3193.4	3295.9	3384.9	3438.8	3503.6	3560.2	3560.2
22.5°	4914.2	4215.6	3309.4	3096.3	3147.5	3212.3	3293.2	3384.9	3384.9	3438.8	3441.5
25°	5049.0	4172.5	3169.1	3042.4	3080.1	3142.2	3233.9	3201.5	3236.6	3236.6	3279.7
27.5°	5202.8	4080.8	3047.8	2945.3	3020.8	3088.2	3101.7	3080.1	3039.7	3034.3	3018.1
30°	5326.8	3967.5	2958.7	2912.9	2974.9	3012.7	2969.5	2923.7	2853.6	2848.2	2810.4
32.5°	5496.7	3827.2	2848.2	2832.0	2902.1	2904.8	2891.3	2821.2	2718.7	2675.6	2632.4
35°	5782.6	3746.3	2764.6	2788.8	2810.4	2802.3	2778.0	2702.5	2600.0	2581.2	2565.0
37.5°	5993.0	3687.0	2678.2	2707.9	2726.8	2737.6	2664.8	2581.2	2583.8	2546.1	2535.3
40°	6230.4	3649.2	2608.1	2621.6	2624.3	2659.4	2570.4	2529.9	2548.8	2524.5	2540.7
42.5°	6535.1	3660.0	2535.3	2524.5	2575.8	2562.3	2519.1	2465.2	2476.0	2403.1	2413.9
45°	6697.0	3732.8	2492.1	2443.6	2500.2	2497.5	2440.9	2389.7	2324.9	2184.7	2190.1
47.5°	6804.9	3751.7	2389.7	2357.3	2416.6	2451.7	2387.0	2268.3	2176.6	2076.8	2052.5
50°	6915.4	3786.8	2341.1	2273.7	2298.0	2381.6	2300.7	2187.4	2098.4	2009.4	2022.8
52.5°	7012.5	3854.2	2246.7	2146.9	2190.1	2281.8	2238.6	2101.1	2004.0	1931.1	1909.6
55°	7444.1	4005.2	2087.6	1958.1	2060.6	2176.6	2152.3	1985.1	1879.9	1842.1	1836.7
56°	7511.5	4010.6	2004.0	1893.4	1987.8	2141.5	2111.9	1933.8	1839.4	1780.1	1782.8
57.5°	7522.3	3945.9	1885.3	1834.0	1915.0	2090.3	2052.5	1893.4	1763.9	1710.0	1693.8
60°	6618.8	3080.1	1737.0	1704.6	1799.0	1933.8	1920.4	1782.8	1637.2	1575.1	1604.8
62.5°	4512.3	2257.5	1621.0	1615.6	1664.1	1796.3	1761.2	1637.2	1515.8	1475.3	1456.4
65°	2627.0	1712.7	1507.7	1486.1	1526.6	1596.7	1621.0	1491.5	1364.7	1337.8	1329.7
67.5°	1550.8	1416.0	1362.0	1327.0	1313.5	1356.7	1375.5	1300.0	1173.3	1135.5	1167.9
70°	1297.3	1259.6	1262.3	1202.9	1170.6	1140.9	1124.7	1057.3	952.1	903.5	890.1
72.5°	1119.3	1103.1	1092.3	1038.4	1008.7	941.3	871.2	803.7	725.5	685.1	687.8
75°	855.0	849.6	855.0	828.0	776.8	722.8	658.1	571.8	512.5	461.2	472.0
77.5°	509.8	525.9	534.0	523.2	501.7	453.1	412.7	356.0	299.4	258.9	253.5
80°	350.6	364.1	377.6	364.1	342.5	307.5	264.3	221.2	180.7	159.1	153.7
82.5°	267.0	280.5	288.6	275.1	248.1	210.4	180.7	151.0	118.7	97.1	91.7
85°	97.1	110.6	107.9	129.5	140.3	134.9	116.0	89.0	67.4	48.5	45.9
87.5°	27.0	24.3	27.0	27.0	27.0	24.3	21.6	21.6	21.6	13.5	10.8
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)