

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: P648674

Luminaire Tested: **GALN-SA9B-835-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648674
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-835-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24564.3 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

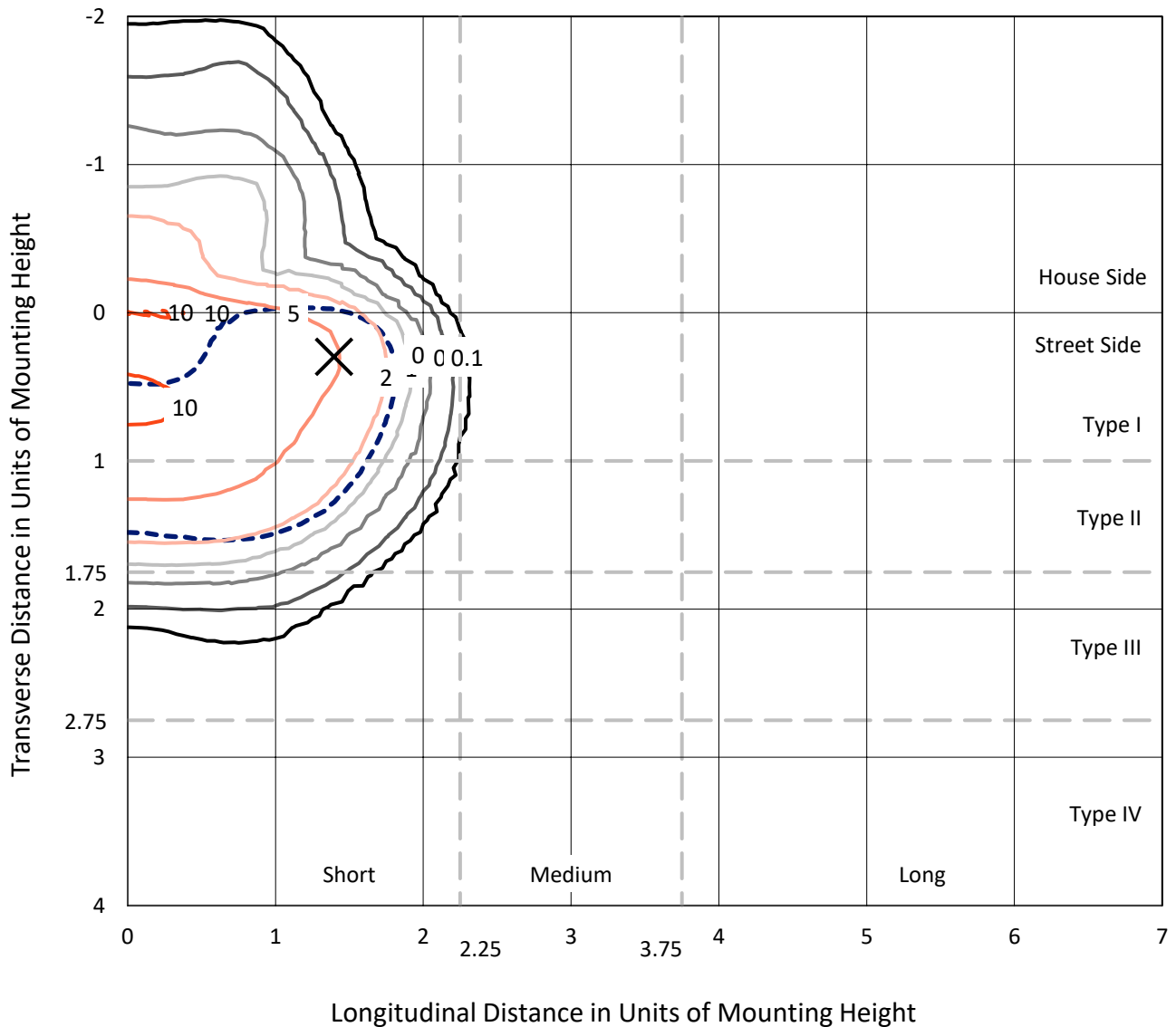
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

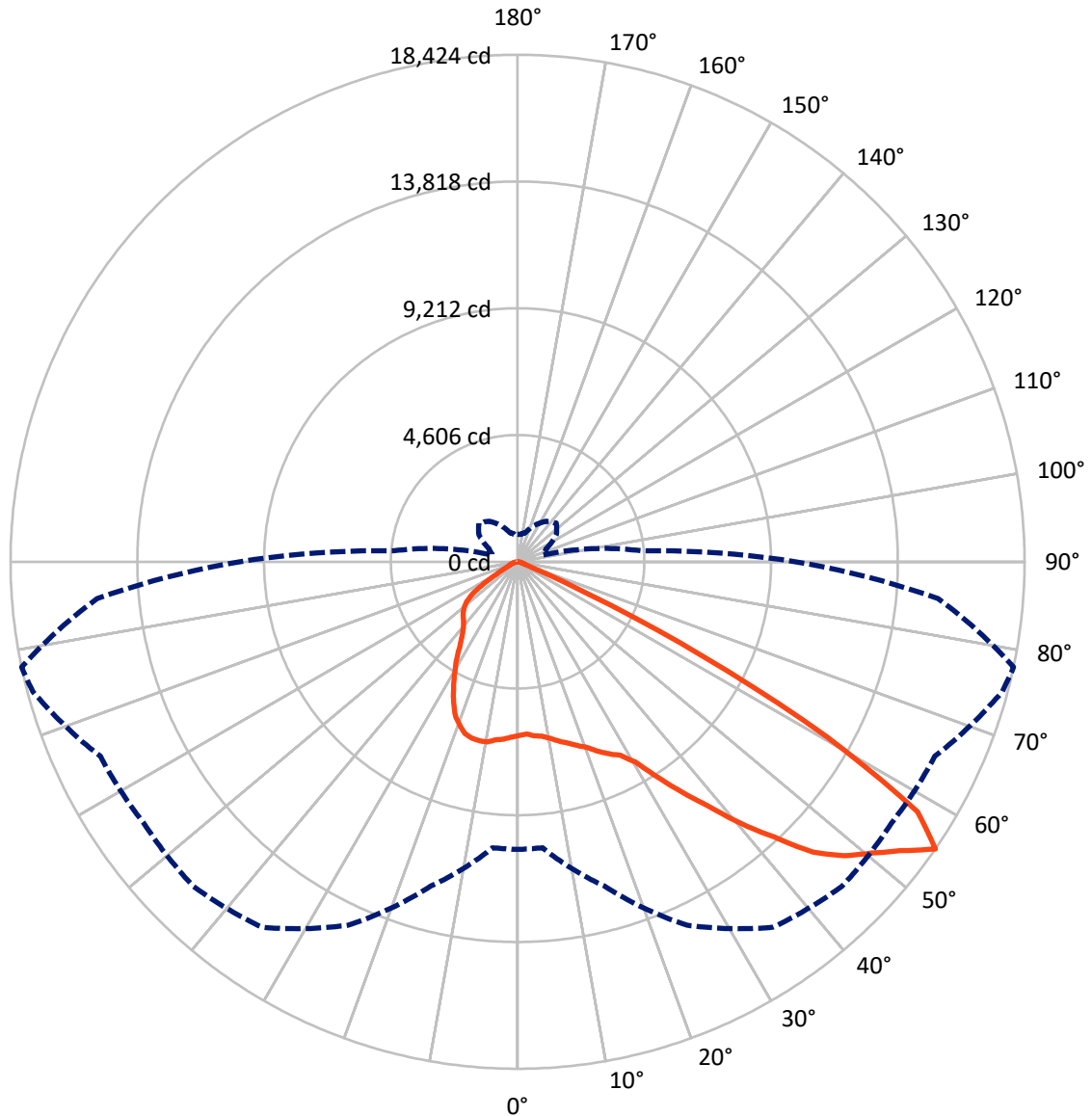
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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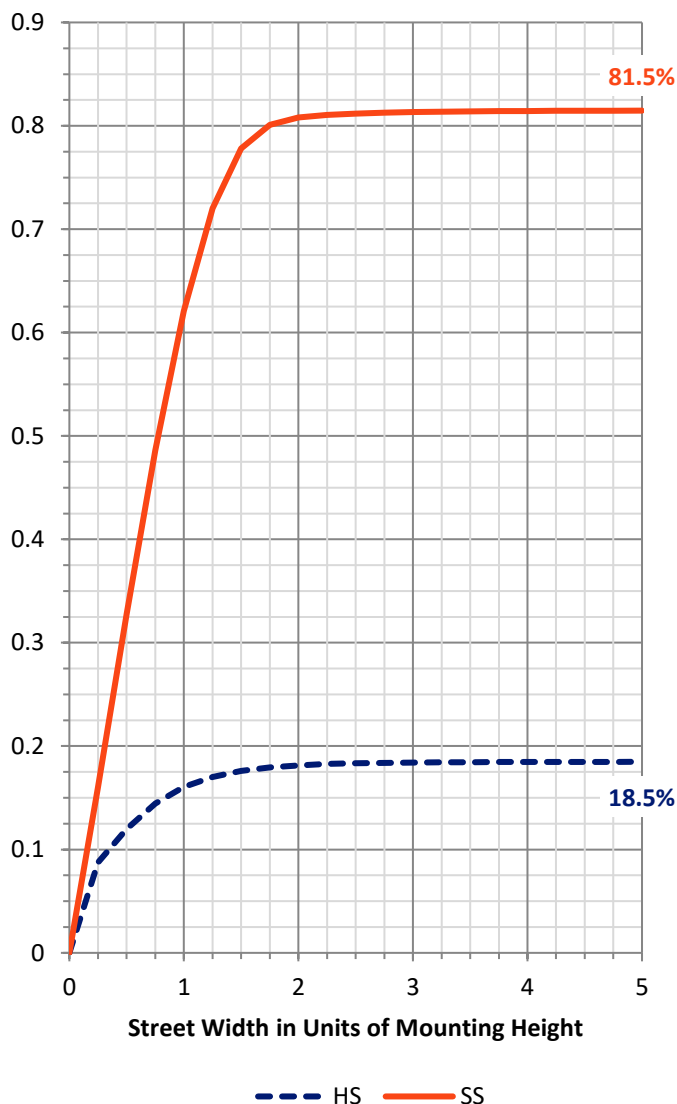
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4562.6	0.0	4562.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	20001.7	0.0	20001.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	24564.3	0.0	24564.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	563.1	2.3
10°-20°	1490.4	6.1
20°-30°	2612.3	10.6
30°-40°	4307.4	17.5
40°-50°	6267.8	25.5
50°-60°	7102.1	28.9
60°-70°	2030.6	8.3
70°-80°	157.7	0.6
80°-90°	32.8	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°	24564.3	100.0
0°-180°	24564.3	100.0

Coefficient of Utilization



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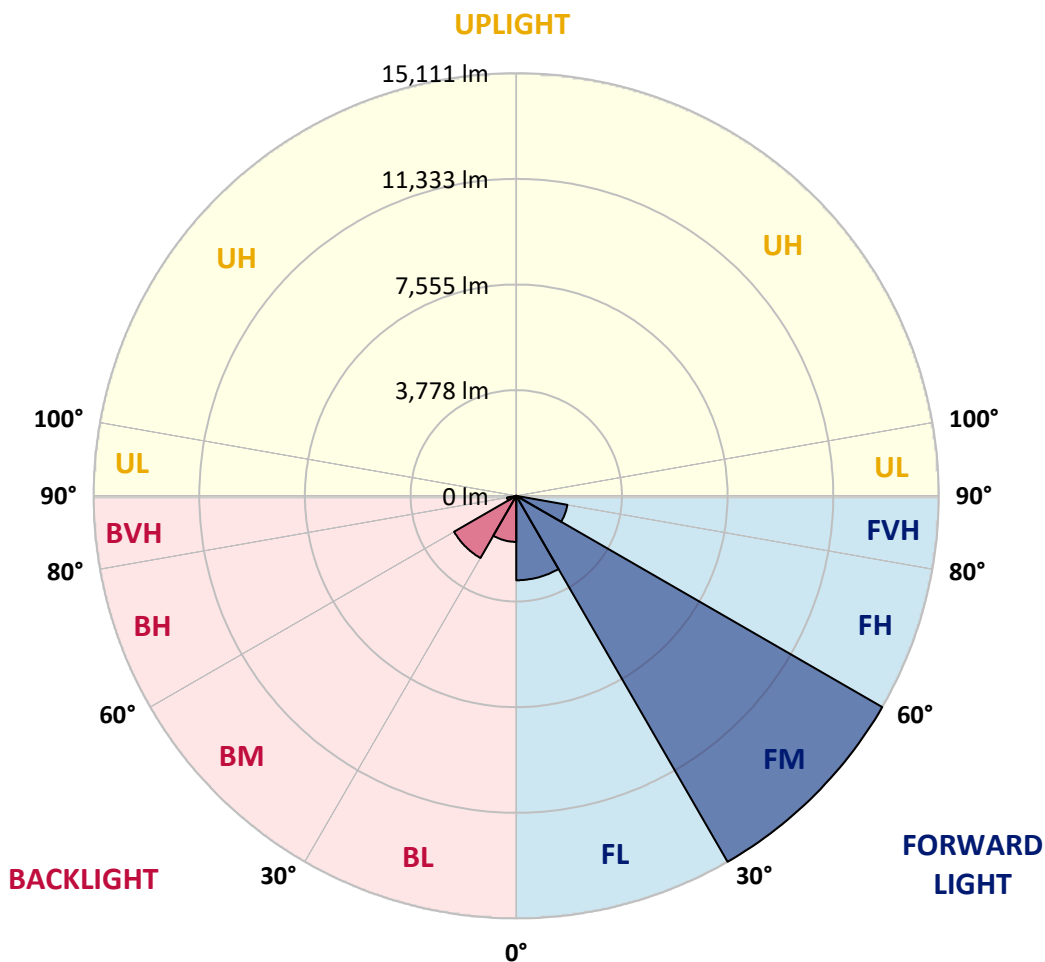
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3019.7	12.3			
FM (30°-60°)	15110.9	61.5			
FH (60°-80°)	1855.3	7.6			G2/5000
FVH (80°-90°)	16.0	0.1			G1/100
BL (0°-30°)	1646.2	6.7	B3/2500		
BM (30°-60°)	2566.5	10.4	B3/5000		
BH (60°-80°)	333.0	1.4	B1/500		G1/500
BVH (80°-90°)	16.8	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	6315.5	6315.5	6315.5	6315.5	6315.5	6315.5	6315.5	6315.5	6315.5	6315.5	6315.5
2.5°	5937.8	5994.9	6003.7	6074.0	6069.6	6188.1	6223.3	6227.7	6306.7	6267.2	6368.2
5°	5770.9	5740.2	5727.0	5849.9	5885.1	5990.5	6078.4	6131.0	6293.5	6350.6	6456.0
7.5°	5621.5	5621.5	5630.4	5740.2	5727.0	5863.1	5955.3	6117.9	6355.0	6403.3	6530.7
10°	5476.6	5423.9	5489.8	5604.0	5700.6	5762.1	5955.3	6109.0	6385.8	6526.3	6702.0
12.5°	5402.0	5428.3	5437.2	5520.5	5625.9	5810.4	5915.8	6170.6	6605.4	6688.8	6877.6
15°	5871.9	5819.2	5691.9	5617.2	5705.0	5792.9	6056.3	6315.5	6719.5	6838.1	7049.0
17.5°	6416.5	6372.6	6267.2	6065.1	5867.5	6030.0	6236.4	6473.6	6842.5	7018.2	7330.0
20°	7128.0	7057.7	6952.3	6557.1	6385.8	6210.1	6429.7	6710.8	7044.6	7202.7	7523.2
22.5°	7975.6	7975.6	7738.5	7259.7	6904.0	6737.1	6829.3	6991.8	7268.5	7483.8	7799.9
25°	8858.4	8832.0	8616.8	8120.6	7518.8	7321.2	7426.6	7540.8	7615.5	7734.1	7944.9
27.5°	9868.5	9714.8	9442.5	8893.5	8362.1	7980.0	8094.2	7993.2	7900.9	7962.4	8265.5
30°	10553.7	10650.3	10303.3	9776.3	9275.6	8849.6	8871.5	8783.7	8362.1	8449.9	8630.0
32.5°	11265.1	11326.6	11133.3	10843.5	10342.8	9846.5	9666.4	9591.8	9275.6	9315.1	9139.5
35°	11858.0	11976.6	11805.3	11678.0	11533.0	11133.3	10637.1	10878.6	10369.2	10272.6	9815.8
37.5°	12402.6	12367.5	12569.5	12437.7	12407.0	12125.9	11581.4	11629.7	11287.1	11265.1	10738.1
40°	12890.1	12898.9	13175.5	13237.1	13114.1	12613.4	11822.9	12204.9	12481.6	12508.0	11831.7
42.5°	13294.2	13412.7	13649.9	14146.1	13961.7	13127.2	12073.2	12490.4	13518.1	13680.7	12868.1
45°	13645.5	13887.1	14181.3	14624.9	14519.5	13856.3	12696.9	13078.9	14624.9	15050.9	13843.1
47.5°	13667.4	13983.7	14304.3	14963.1	15094.8	14247.2	13342.5	14010.0	15503.2	15964.4	14554.6
50°	13579.6	13746.5	14387.7	15103.6	15402.2	14884.0	14247.2	14791.8	16355.3	16645.2	14914.7
52.5°	12538.7	12666.1	13952.9	15235.4	15955.6	15604.3	15446.2	15881.0	17224.8	17440.1	15252.9
55°	10452.6	10430.7	12200.5	14572.2	16210.4	16671.5	16574.9	16728.6	18230.6	18423.8	15336.4
57.5°	7150.0	7549.6	9077.9	12134.7	14651.3	16421.2	16522.2	16267.5	17058.0	17132.7	13368.8
60°	3856.0	4023.0	5252.7	8098.6	11155.3	13382.0	13645.5	13184.4	13122.8	12912.1	9543.5
62.5°	1532.7	1616.2	2314.5	4009.7	6078.4	8133.7	8700.3	8511.4	8107.3	7554.0	4940.8
65°	729.1	781.7	1150.7	1875.3	2696.6	3390.5	3957.0	4132.8	3048.0	2744.9	1629.3
67.5°	496.3	535.8	838.8	1071.6	961.8	1005.8	1308.8	1216.5	715.9	610.5	452.3
70°	377.7	404.0	672.0	729.1	430.4	303.0	338.2	316.2	294.3	298.6	294.3
72.5°	267.9	289.9	491.9	430.4	188.9	140.5	180.1	215.2	215.2	215.2	210.8
75°	162.5	184.5	285.5	166.9	74.7	74.7	114.2	144.9	153.7	158.1	149.3
77.5°	83.5	105.4	96.6	48.3	48.3	57.1	83.5	101.0	109.8	109.8	105.4
80°	17.5	17.5	17.5	26.4	48.3	61.5	83.5	92.2	105.4	105.4	96.6
82.5°	0.0	4.4	13.2	26.4	43.9	57.1	79.1	92.2	105.4	109.8	101.0
85°	0.0	4.4	8.8	17.5	30.8	35.2	30.8	26.4	26.4	26.4	26.4
87.5°	0.0	0.0	4.4	4.4	4.4	8.8	8.8	8.8	8.8	8.8	8.8
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°	6315.5	6315.5	6315.5	6315.5	6315.5	6315.5	6315.5	6315.5	6315.5	6315.5	6315.5
2.5°	6377.0	6390.1	6368.2	6363.8	6346.2	6398.9	6271.6	6240.8	6319.9	6245.2	6262.8
5°	6460.5	6491.1	6451.6	6385.8	6289.1	6139.8	6012.4	5845.6	5766.5	5709.4	5700.6
7.5°	6521.9	6543.8	6504.3	6293.5	6003.7	5625.9	5344.9	5138.4	4976.0	4927.7	4848.6
10°	6772.2	6776.6	6579.0	6113.4	5546.9	5050.7	4620.2	4304.0	4141.5	4040.5	3996.6
12.5°	6939.1	6930.3	6530.7	5757.7	5002.4	4343.5	3851.7	3469.6	3320.2	3271.9	3241.2
15°	7150.0	7101.7	6416.5	5393.2	4299.6	3588.2	3144.6	2881.0	2867.9	2837.1	2867.9
17.5°	7316.8	7180.7	6249.6	4730.0	3627.6	2955.7	2665.9	2683.4	2718.6	2749.3	2753.7
20°	7589.1	7308.1	5867.5	4150.3	3004.1	2534.1	2529.7	2608.8	2696.6	2731.7	2766.9
22.5°	7795.5	7360.7	5459.1	3531.0	2494.6	2362.8	2437.5	2556.0	2622.0	2657.1	2709.8
25°	7870.2	7215.8	4914.5	2911.8	2248.6	2283.8	2397.9	2477.0	2560.5	2600.0	2578.0
27.5°	7944.9	7141.2	4264.5	2397.9	2116.8	2231.1	2327.7	2406.7	2433.1	2485.8	2520.9
30°	8125.0	6882.0	3680.4	2073.0	2051.0	2195.9	2266.2	2292.5	2362.8	2393.6	2393.6
32.5°	8269.9	6781.0	3061.1	1919.2	2042.2	2213.5	2222.3	2222.3	2231.1	2209.1	2200.3
35°	8568.5	6434.1	2507.7	1827.0	2037.8	2217.9	2239.8	2165.2	1963.1	1884.1	1862.1
37.5°	8937.4	6210.1	2099.3	1805.0	2068.5	2270.6	2305.7	2024.7	1761.1	1633.8	1611.8
40°	9385.4	6052.0	1831.4	1796.3	2138.8	2393.6	2288.2	1914.8	1572.3	1387.8	1379.0
42.5°	9908.0	5907.0	1651.3	1791.9	2226.7	2520.9	2270.6	1822.6	1379.0	1256.1	1273.6
45°	10325.3	5828.0	1528.3	1761.1	2257.4	2595.6	2283.8	1660.1	1300.0	1220.9	1229.7
47.5°	10650.3	5661.1	1427.3	1708.4	2253.0	2622.0	2165.2	1594.3	1260.5	1282.4	1304.4
50°	10659.1	5437.2	1300.0	1594.3	2187.2	2573.6	2029.1	1532.7	1251.7	1343.9	1387.8
52.5°	10540.4	5120.9	1163.9	1431.7	2033.5	2406.7	1906.1	1506.4	1212.2	1203.4	1256.1
55°	10118.9	4528.0	935.5	1159.5	1717.2	1985.1	1796.3	1458.1	1093.5	992.5	1001.4
57.5°	8177.7	3245.6	689.5	830.1	1216.5	1453.7	1620.6	1436.1	983.8	843.2	847.6
60°	5063.8	1840.2	505.0	566.6	751.0	882.8	1313.2	1335.1	878.4	711.5	702.7
62.5°	2600.0	909.1	390.9	399.6	461.1	518.3	900.3	1119.9	794.9	676.4	676.4
65°	869.6	448.0	342.6	307.4	307.4	320.6	544.6	777.4	672.0	566.6	566.6
67.5°	373.3	333.8	298.6	267.9	245.9	232.8	307.4	452.3	500.7	430.4	412.8
70°	289.9	281.1	259.1	224.0	193.2	175.7	180.1	232.8	285.5	276.7	267.9
72.5°	215.2	215.2	206.4	175.7	149.3	127.4	118.5	123.0	136.2	140.5	144.9
75°	149.3	153.7	153.7	136.2	109.8	92.2	79.1	65.9	52.7	43.9	39.5
77.5°	101.0	105.4	114.2	101.0	83.5	61.5	48.3	35.2	21.9	8.8	8.8
80°	87.9	101.0	109.8	101.0	87.9	65.9	48.3	26.4	13.2	0.0	0.0
82.5°	92.2	101.0	114.2	96.6	83.5	61.5	48.3	30.8	13.2	4.4	0.0
85°	21.9	21.9	26.4	30.8	39.5	43.9	35.2	21.9	13.2	4.4	0.0
87.5°	8.8	8.8	8.8	8.8	8.8	4.4	4.4	4.4	4.4	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)