

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: P531690

Luminaire Tested: **GALN-SA7A-730-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-730-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24587 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

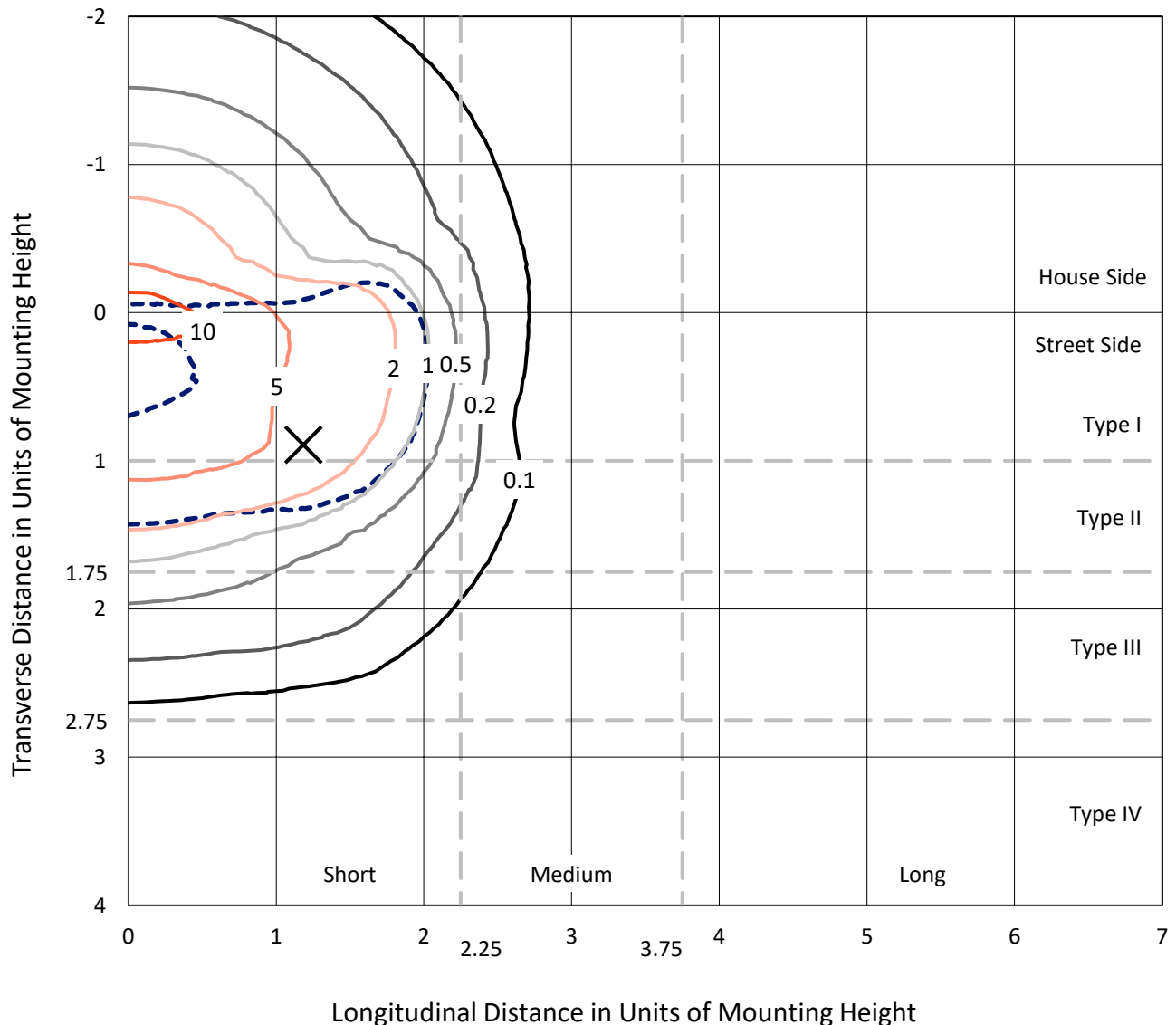
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

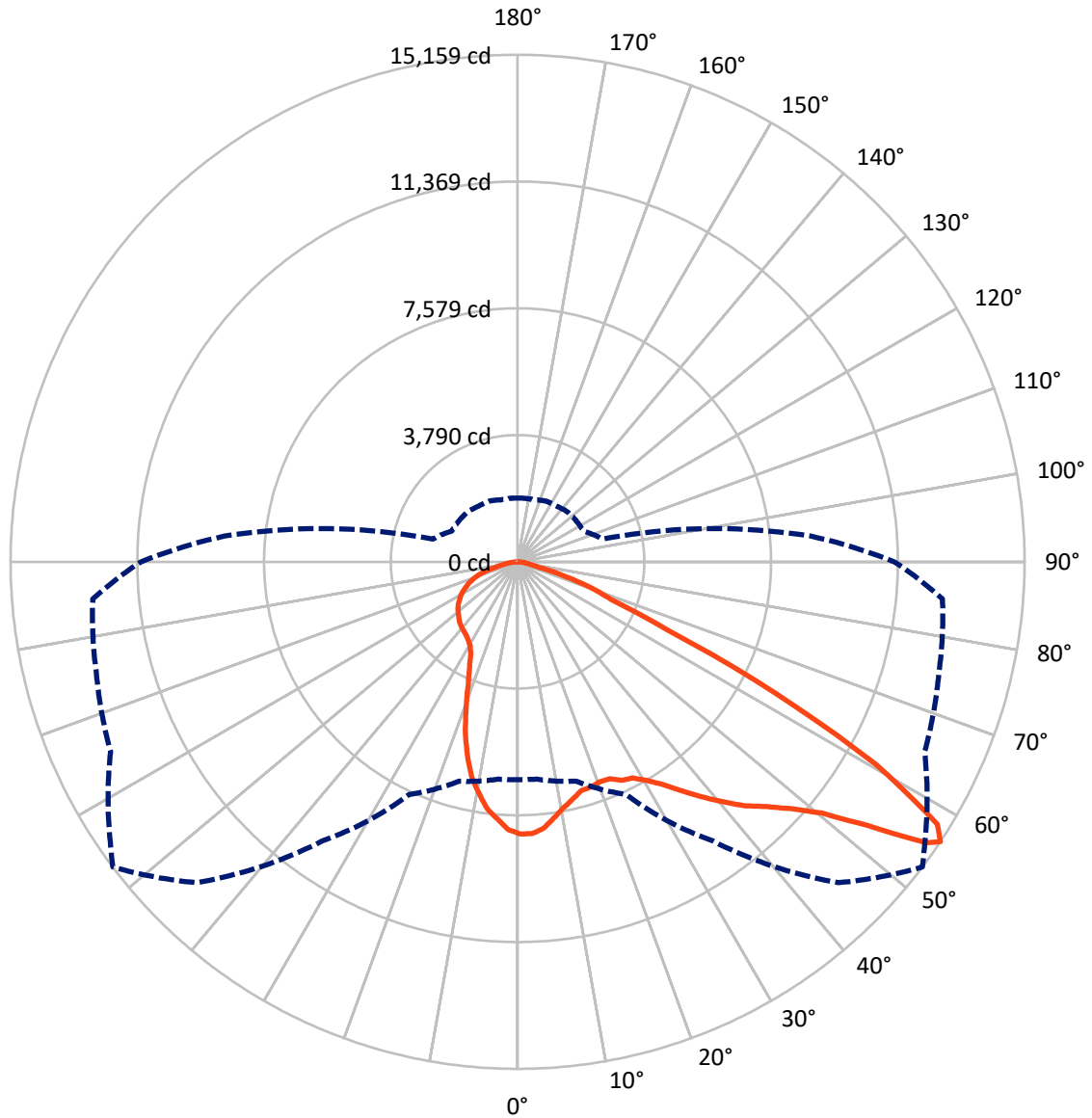
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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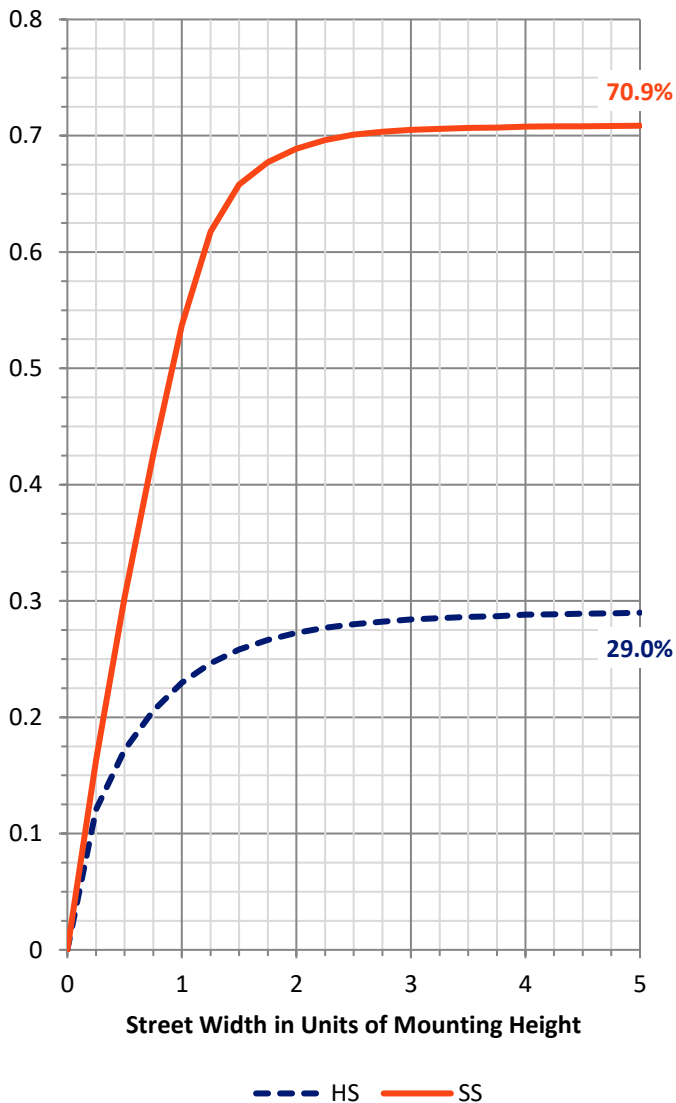
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7175.0	0.0	7175.0
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	17412.0	0.0	17412.0
	% Fixture	70.8	0.0	70.8
Total	Lumens	24587.0	0.0	24587.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	720.1	2.9
10°-20°	1798.5	7.3
20°-30°	2652.1	10.8
30°-40°	3789.4	15.4
40°-50°	5215.6	21.2
50°-60°	6163.4	25.1
60°-70°	3284.7	13.4
70°-80°	833.3	3.4
80°-90°	129.9	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°	24587.0	100.0
0°-180°	24587.0	100.0



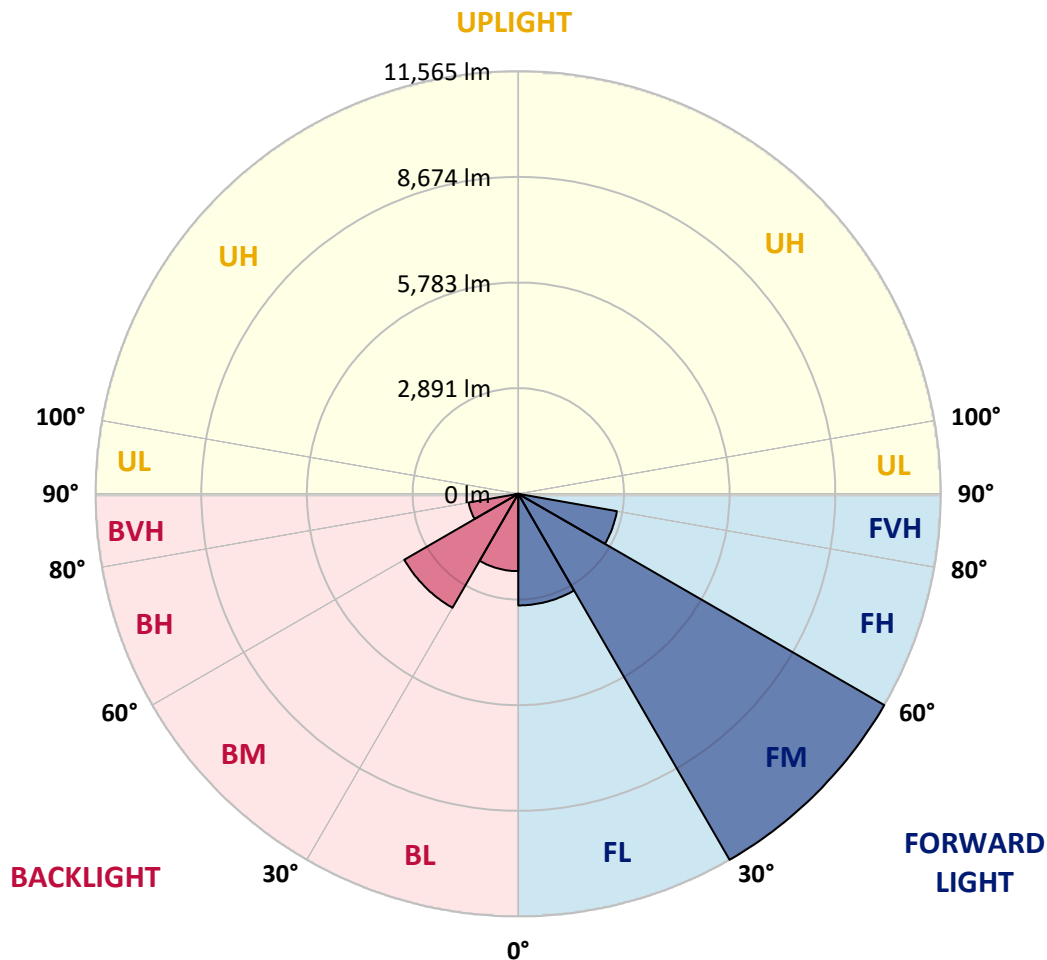
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3054.6	12.4			
FM (30°-60°)	11565.3	47.0			
FH (60°-80°)	2739.9	11.1			G2/5000
FVH (80°-90°)	52.2	0.2			G1/100
BL (0°-30°)	2116.2	8.6	B3/2500		
BM (30°-60°)	3603.1	14.7	B3/5000		
BH (60°-80°)	1378.0	5.6	B3/2500		G3/2500
BVH (80°-90°)	77.7	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°	53°	55°	65°	75°	85°
0°	8134.3	8134.3	8134.3	8134.3	8134.3	8134.3	8134.3	8134.3	8134.3	8134.3	8134.3
2.5°	8033.4	7964.0	8005.0	7989.3	8118.6	8156.4	8137.5	8153.3	8225.8	8191.1	8118.6
5°	7506.7	7604.5	7623.4	7670.7	7746.4	7894.6	8011.3	8042.9	8077.6	8238.4	8222.7
7.5°	7027.3	7093.5	7058.8	7197.6	7361.6	7601.3	7743.2	7768.5	8087.0	8175.4	8241.6
10°	6724.5	6658.2	6815.9	6853.8	7039.9	7314.3	7484.6	7588.7	7878.9	8229.0	8270.0
12.5°	6443.8	6421.7	6516.3	6623.5	6831.7	7115.6	7289.1	7330.1	7777.9	8147.0	8339.4
15°	6235.6	6210.4	6305.0	6383.8	6626.7	6879.0	7099.8	7216.5	7667.5	8099.7	8279.4
17.5°	6071.6	6068.4	6122.1	6264.0	6513.2	6724.5	7080.9	7087.2	7610.8	8172.2	8329.9
20°	6062.1	6059.0	6068.4	6226.1	6453.2	6711.9	7021.0	7077.7	7610.8	8121.7	8333.1
22.5°	6141.0	6090.5	6147.3	6248.2	6412.2	6733.9	7043.0	7169.2	7793.7	8370.9	8475.0
25°	6267.1	6279.8	6311.3	6346.0	6440.6	6784.4	7238.6	7342.7	8008.2	8585.4	8670.5
27.5°	6497.4	6491.1	6503.7	6522.6	6604.6	6831.7	7317.4	7585.5	8456.1	8967.0	8881.9
30°	6834.9	6812.8	6863.3	6929.5	6853.8	6983.1	7579.2	7781.1	8872.4	9351.8	9118.4
32.5°	7140.8	7222.8	7317.4	7345.8	7254.4	7279.6	7926.2	8131.2	9219.3	9824.9	9408.6
35°	7522.5	7588.7	7714.9	7803.2	7787.4	7711.7	8399.3	8670.5	9720.8	10171.9	9714.5
37.5°	7894.6	7973.5	8181.7	8443.4	8298.4	8263.7	8903.9	9127.9	9875.4	10358.0	9938.5
40°	8493.9	8490.8	8850.3	8985.9	9115.3	9055.3	9427.5	9503.2	9957.4	10317.0	9944.8
42.5°	9197.3	9153.1	9519.0	9730.3	9897.5	9903.8	9973.2	9947.9	9995.3	10108.8	9878.5
45°	9865.9	9960.6	10329.6	10708.1	10875.2	10894.2	10433.7	10386.4	10061.5	10048.9	9752.4
47.5°	10682.8	10704.9	11007.7	11506.1	11894.0	11761.5	11029.8	10925.7	10351.7	10449.4	9963.7
50°	10730.1	10894.2	11165.4	11752.1	12944.3	12909.6	11802.5	11607.0	10818.5	11017.2	10553.5
52.5°	9739.8	9701.9	10023.6	10982.5	12865.5	14051.4	13083.1	12616.3	11821.5	11670.1	11509.2
55°	7421.5	7509.8	7793.7	8762.0	11171.7	14067.2	14827.3	14445.6	12893.8	12635.2	12449.1
56°	6510.0	6522.6	6790.7	7673.9	10194.0	13565.7	15158.5	14849.4	13426.9	13032.6	12748.8
57.5°	5396.6	5324.1	5462.9	5945.4	8604.3	12505.9	14795.7	15098.5	14051.4	13461.6	13067.3
60°	4248.5	4232.8	4176.0	4264.3	5437.6	9421.2	12316.6	12997.9	13988.3	13057.9	12515.4
62.5°	3469.5	3390.6	3504.2	3630.3	3778.6	5844.5	8654.8	9055.3	11105.5	10424.2	9402.3
65°	2690.4	2652.6	2794.5	3204.5	3292.8	3712.3	4929.8	5238.9	6557.3	6440.6	5671.0
67.5°	1851.4	1857.7	1980.8	2605.3	3053.1	3015.3	3018.4	3179.3	3422.2	2542.2	2214.2
70°	1173.3	1170.2	1236.4	1678.0	2457.0	2482.3	2356.1	2308.8	2188.9	1324.7	1403.6
72.5°	753.8	731.7	766.4	927.3	1271.1	1469.8	1514.0	1542.3	1267.9	1040.8	1129.2
75°	425.8	403.7	391.1	432.1	501.5	580.3	637.1	656.0	734.9	788.5	835.8
77.5°	129.3	116.7	141.9	189.2	249.2	334.3	406.9	419.5	495.2	558.3	605.6
80°	56.8	63.1	88.3	126.2	176.6	236.6	287.0	305.9	356.4	403.7	416.3
82.5°	34.7	37.8	59.9	85.2	123.0	167.2	205.0	211.3	261.8	299.6	309.1
85°	12.6	15.8	31.5	50.5	78.9	107.2	107.2	116.7	107.2	107.2	116.7
87.5°	0.0	0.0	3.2	6.3	6.3	9.5	12.6	12.6	15.8	18.9	22.1
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°	8134.3	8134.3	8134.3	8134.3	8134.3	8134.3	8134.3	8134.3	8134.3	8134.3	8134.3
2.5°	8156.4	8140.7	8115.4	8024.0	8014.5	7986.1	7828.4	7803.2	7828.4	7752.7	7759.0
5°	8140.7	8188.0	7998.7	7907.3	7736.9	7613.9	7472.0	7399.5	7270.1	7188.1	7279.6
7.5°	8210.0	8191.1	7954.6	7755.9	7500.4	7188.1	6939.0	6797.0	6569.9	6506.8	6554.2
10°	8184.8	8083.9	7806.3	7544.5	7062.0	6787.6	6383.8	5992.7	5778.3	5667.9	5652.1
12.5°	8150.1	8121.7	7658.1	7207.1	6699.2	6122.1	5554.3	5185.3	4835.2	4683.8	4705.9
15°	8191.1	7951.4	7380.5	6809.6	6134.7	5377.7	4765.8	4289.5	4046.7	3948.9	3948.9
17.5°	8172.2	7869.4	7248.1	6364.9	5510.2	4614.4	3942.6	3655.6	3554.6	3554.6	3583.0
20°	8181.7	7923.0	6980.0	5920.2	4772.1	3885.8	3396.9	3292.8	3337.0	3352.8	3368.5
22.5°	8235.3	7746.4	6718.2	5431.3	4087.7	3324.4	3084.7	3087.8	3166.7	3251.8	3236.1
25°	8301.5	7677.0	6399.6	4945.6	3564.1	3050.0	2974.3	2964.8	3024.8	3068.9	3075.2
27.5°	8244.7	7557.2	6074.7	4340.0	3135.1	2867.1	2851.3	2857.6	2876.5	2964.8	2936.4
30°	8430.8	7591.8	5667.9	3832.2	2898.6	2807.1	2788.2	2778.7	2807.1	2832.4	2810.3
32.5°	8661.1	7468.8	5365.1	3343.3	2781.9	2763.0	2725.1	2712.5	2728.3	2703.0	2715.7
35°	8762.0	7446.8	4970.8	2993.2	2690.4	2674.7	2652.6	2649.4	2652.6	2630.5	2611.6
37.5°	8818.8	7550.8	4519.8	2832.4	2633.6	2649.4	2599.0	2592.6	2535.9	2548.5	2558.0
40°	8916.6	7390.0	4153.9	2677.8	2599.0	2567.4	2523.3	2513.8	2475.9	2453.9	2475.9
42.5°	8774.6	7342.7	3794.3	2611.6	2548.5	2513.8	2482.3	2428.6	2416.0	2397.1	2384.5
45°	8661.1	7071.4	3472.6	2529.6	2488.6	2469.6	2409.7	2352.9	2305.6	2324.6	2296.2
47.5°	8746.2	6976.8	3154.1	2460.2	2406.6	2384.5	2324.6	2280.4	2233.1	2211.0	2204.7
50°	9086.9	7153.4	2886.0	2409.7	2337.2	2324.6	2245.7	2195.2	2151.1	2135.3	2141.6
52.5°	9900.6	7636.0	2703.0	2305.6	2270.9	2214.2	2170.0	2106.9	2078.5	2028.1	2059.6
55°	10932.0	8421.4	2655.7	2207.8	2188.9	2138.5	2078.5	2031.2	1977.6	1936.6	1927.1
56°	11263.2	8796.7	2617.9	2170.0	2138.5	2110.1	2031.2	2002.8	1917.7	1908.2	1901.9
57.5°	11531.3	9127.9	2624.2	2097.5	2065.9	2040.7	1993.4	1924.0	1867.2	1832.5	1848.3
60°	10925.7	8544.4	2504.3	1987.1	1980.8	1933.4	1867.2	1835.7	1766.3	1725.3	1715.8
62.5°	8121.7	5800.3	2031.2	1845.1	1842.0	1791.5	1715.8	1681.1	1668.5	1611.7	1611.7
65°	4677.5	3636.6	1756.8	1728.4	1703.2	1652.7	1577.0	1548.6	1517.1	1498.2	1482.4
67.5°	1996.5	1886.1	1596.0	1592.8	1564.4	1501.3	1425.6	1381.5	1340.5	1302.6	1321.6
70°	1447.7	1469.8	1441.4	1425.6	1390.9	1312.1	1245.9	1192.2	1129.2	1103.9	1122.8
72.5°	1148.1	1195.4	1236.4	1239.5	1198.5	1107.1	1034.5	962.0	892.6	857.9	873.7
75°	870.5	902.1	943.1	952.5	892.6	829.5	760.1	684.4	630.8	589.8	596.1
77.5°	627.7	621.4	659.2	652.9	624.5	580.3	517.3	447.9	388.0	350.1	353.3
80°	429.0	438.4	460.5	457.3	422.6	394.3	346.9	290.2	246.0	214.5	208.2
82.5°	299.6	315.4	334.3	318.6	290.2	261.8	227.1	186.1	151.4	126.2	119.9
85°	107.2	123.0	141.9	151.4	160.9	154.5	129.3	104.1	75.7	63.1	59.9
87.5°	22.1	25.2	28.4	28.4	28.4	25.2	22.1	22.1	18.9	9.5	9.5
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)