

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: P529372

Luminaire Tested: **GALN-SA4C-735-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529372
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-735-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23378 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

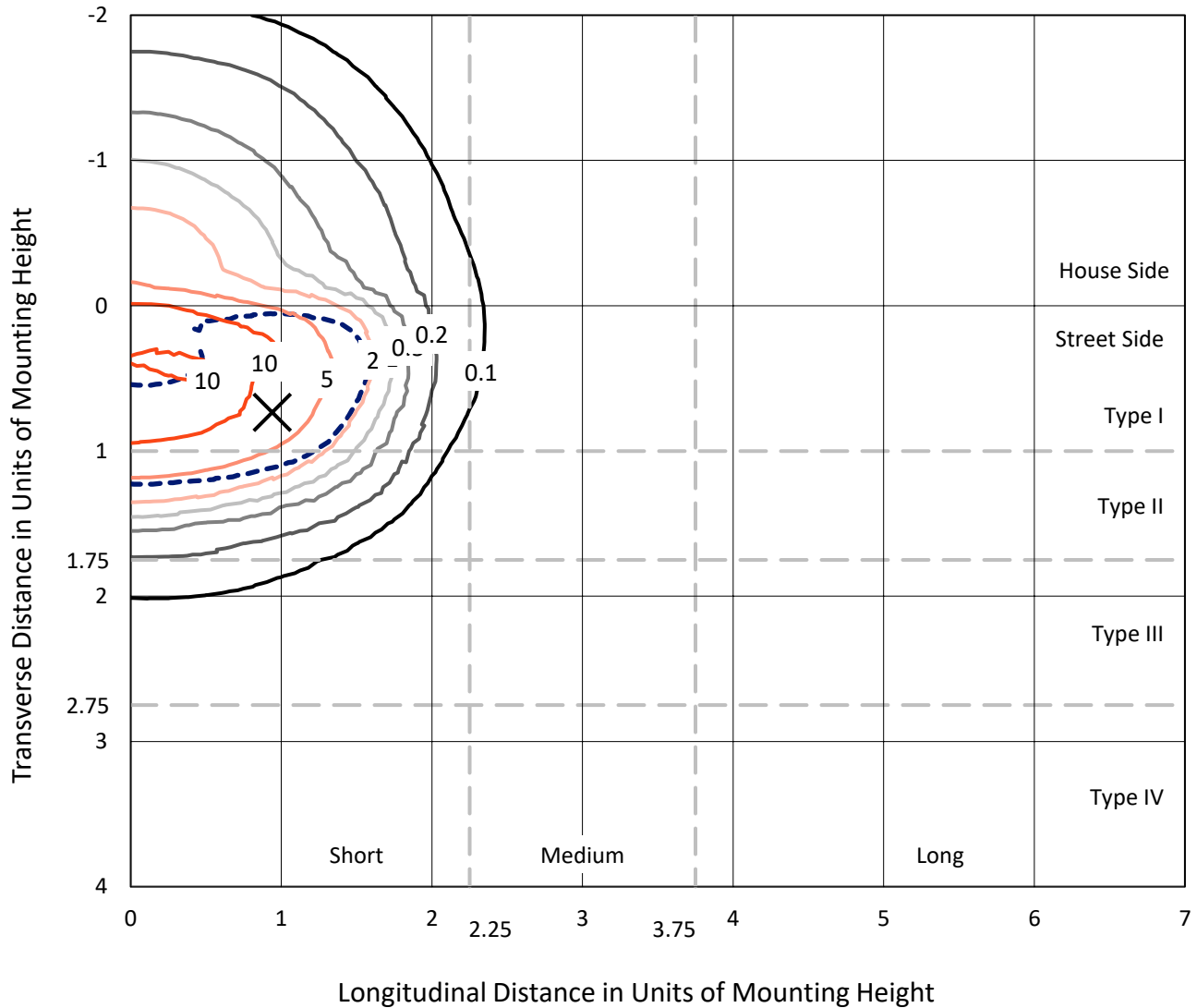
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

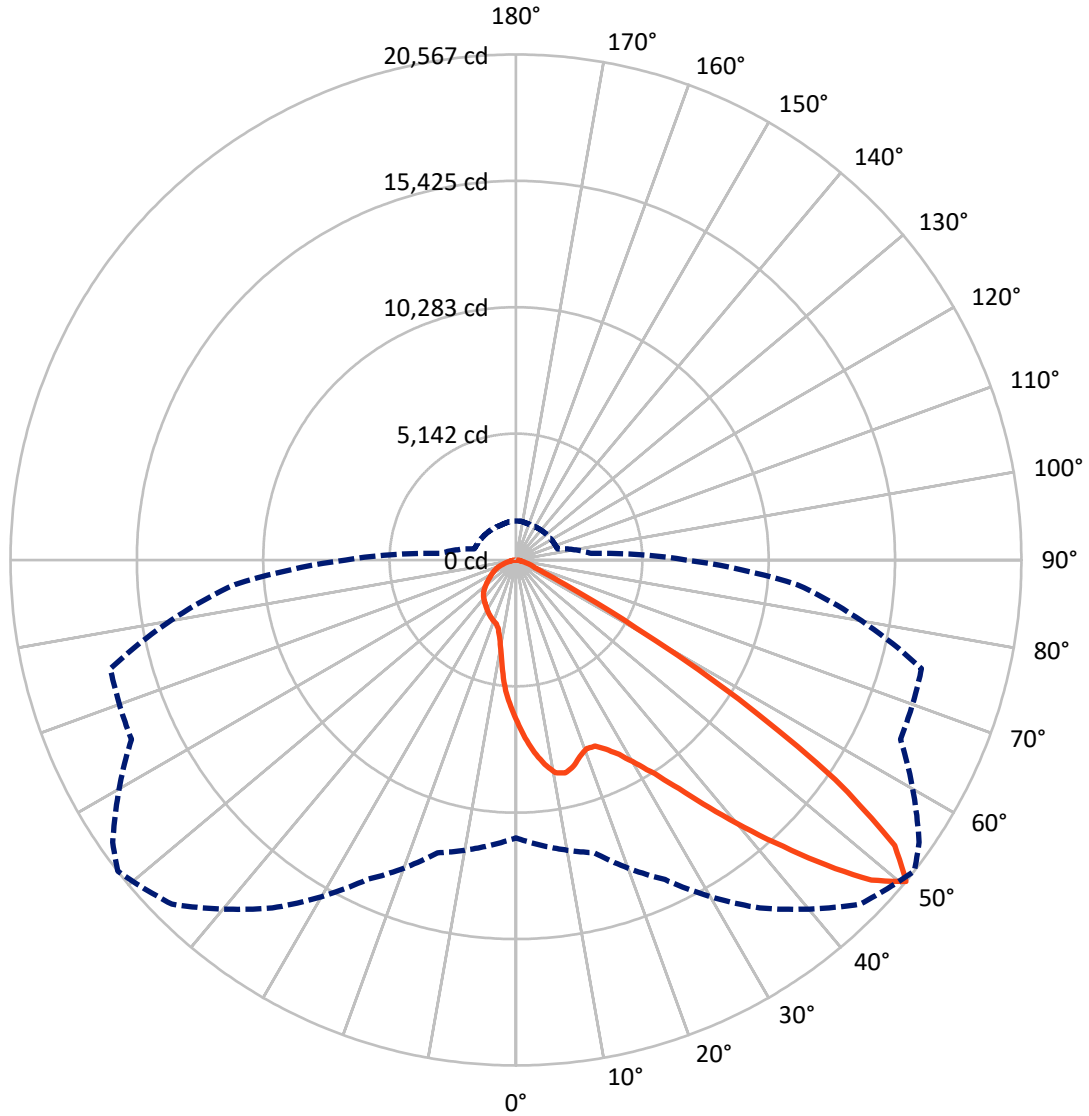
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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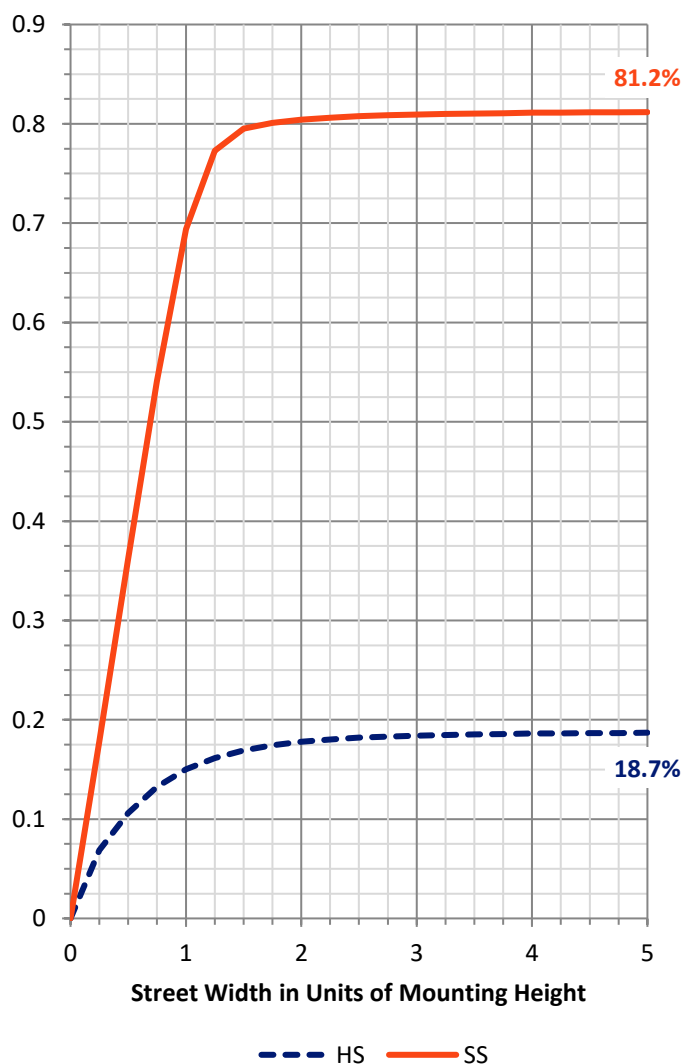
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4394.5	0.0	4394.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	18983.5	0.0	18983.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	23378.0	0.0	23378.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.4	2.6
10°-20°	1627.9	7.0
20°-30°	2742.2	11.7
30°-40°	4601.7	19.7
40°-50°	7039.4	30.1
50°-60°	5132.3	22.0
60°-70°	1142.2	4.9
70°-80°	412.0	1.8
80°-90°	72.9	0.3
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°	23378.0	100.0
0°-180°	23378.0	100.0

Coefficient of Utilization



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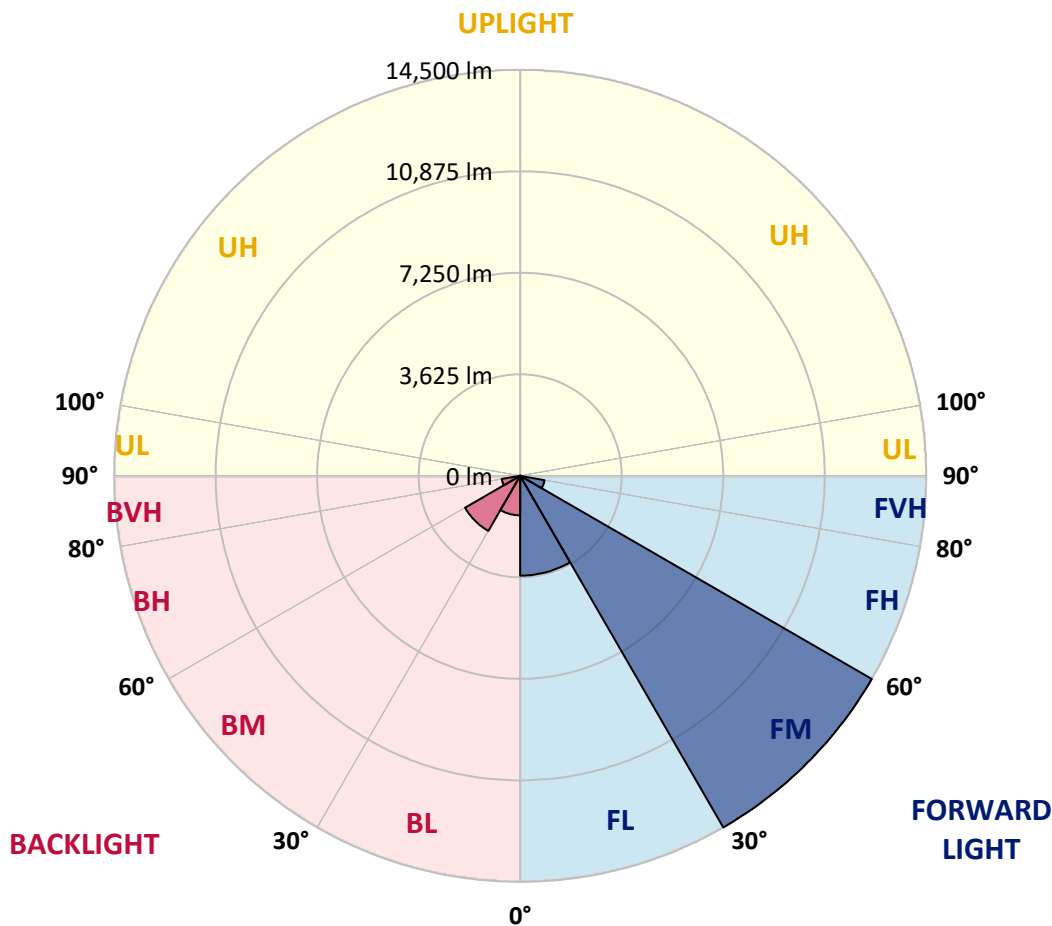
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3565.9	15.3			
FM (30°-60°)	14500.2	62.0			
FH (60°-80°)	884.6	3.8			G1/1800
FVH (80°-90°)	32.7	0.1			G1/100
BL (0°-30°)	1411.6	6.0	B3/2500		
BM (30°-60°)	2273.1	9.7	B2/2500		
BH (60°-80°)	669.5	2.9	B2/1000		G2/1000
BVH (80°-90°)	40.2	0.2			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°	52°	55°	65°	75°	85°
0°	6589.9	6589.9	6589.9	6589.9	6589.9	6589.9	6589.9	6589.9	6589.9	6589.9	6589.9
2.5°	7759.1	7609.8	7626.7	7519.6	7404.1	7370.3	7252.0	7139.3	7054.7	6874.4	6708.2
5°	8480.3	8435.3	8367.6	8283.1	8195.8	7981.7	7860.5	7719.6	7409.7	7130.8	6854.7
7.5°	8584.6	8576.1	8612.8	8612.8	8643.7	8562.0	8390.2	8291.6	7961.9	7508.3	6995.6
10°	7852.1	7877.4	8054.9	8285.9	8607.1	8829.7	8801.5	8776.2	8415.5	7795.7	7161.8
12.5°	7268.9	7212.5	7316.8	7514.0	7995.7	8533.9	8897.3	8900.1	8807.2	8254.9	7282.9
15°	6939.2	6978.7	7006.8	7099.8	7463.3	8085.9	8725.5	8914.2	9322.7	8578.9	7474.5
17.5°	7150.5	7018.1	7012.5	7035.0	7221.0	7688.7	8407.1	8731.1	9604.5	8995.9	7711.2
20°	7426.6	7423.8	7344.9	7316.8	7313.9	7730.9	8198.6	8638.1	9753.8	9536.9	7950.7
22.5°	7911.2	7911.2	7781.6	7719.6	7587.2	7928.1	8226.8	8525.4	10001.7	9908.8	8066.2
25°	8722.6	8590.2	8367.6	8215.5	8139.4	8260.6	8525.4	8793.1	10218.7	10303.2	8305.7
27.5°	9472.1	9263.6	9153.7	8891.7	8790.3	8719.8	8962.1	9232.6	10472.2	10917.4	8435.3
30°	10322.9	10286.3	10089.1	9751.0	9500.2	9370.6	9593.2	9860.9	10937.1	11545.7	8733.9
32.5°	11844.3	11511.8	11244.2	10830.0	10421.5	10145.4	10365.2	10542.7	11709.1	12202.1	9060.7
35°	13486.8	13379.8	12917.7	12171.1	11545.7	11297.7	11427.3	11559.7	12607.8	13205.1	9610.1
37.5°	15101.2	14954.7	14574.3	13946.1	13185.4	12681.1	12774.0	12929.0	13616.4	14557.4	10280.6
40°	16262.0	16081.7	15890.1	15797.1	15042.0	14351.8	14298.2	14337.7	14980.1	15825.3	11024.4
42.5°	16346.5	16569.1	16628.2	17002.9	16825.4	16259.1	15929.5	15938.0	16281.7	17079.0	11776.7
45°	16169.0	15963.3	16400.0	17422.7	18008.7	18273.6	17718.6	17648.1	17087.5	17805.9	12151.4
47.5°	14306.7	14363.0	15101.2	16718.4	18411.6	19594.9	19465.3	19231.5	17518.5	17780.5	12092.2
50°	11309.0	11649.9	12334.5	14349.0	17284.7	19803.4	20566.9	20026.0	17262.1	17081.8	11489.3
52.5°	7530.9	7671.7	8122.5	10723.0	13898.2	17701.6	19299.1	19423.1	17025.5	16166.2	10725.8
55°	3352.7	3341.4	3975.3	5601.0	8719.8	13469.9	15768.9	16524.0	16115.5	15233.6	9982.0
57.5°	1420.0	1467.9	1727.1	2420.1	4288.1	8128.2	10683.5	11345.6	12393.7	12509.2	7657.7
60°	960.7	966.4	1036.8	1211.5	1794.7	3817.6	5603.8	6398.3	7147.7	7097.0	4062.7
62.5°	755.1	774.8	828.3	898.7	1065.0	1732.7	2507.5	2949.8	2997.7	2521.6	1541.1
65°	645.2	648.0	701.5	760.7	833.9	1008.6	1208.7	1231.2	1245.3	1200.2	1132.6
67.5°	532.5	538.1	580.4	648.0	715.6	772.0	828.3	856.5	921.3	1048.1	1031.2
70°	422.6	431.1	467.7	524.0	586.0	619.8	690.3	715.6	774.8	873.4	912.8
72.5°	321.2	324.0	355.0	394.4	450.8	484.6	543.8	571.9	611.4	695.9	732.5
75°	231.0	239.5	262.0	281.7	290.2	312.7	369.1	400.1	456.4	493.0	495.9
77.5°	121.1	126.8	132.4	132.4	160.6	202.9	239.5	256.4	295.8	324.0	309.9
80°	47.9	50.7	64.8	87.3	112.7	146.5	171.9	180.3	214.1	231.0	239.5
82.5°	28.2	31.0	42.3	62.0	81.7	104.2	124.0	132.4	155.0	174.7	180.3
85°	14.1	16.9	25.4	39.4	53.5	64.8	62.0	59.2	59.2	56.3	59.2
87.5°	5.6	5.6	8.5	8.5	8.5	11.3	14.1	14.1	14.1	16.9	16.9
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°	6589.9	6589.9	6589.9	6589.9	6589.9	6589.9	6589.9	6589.9	6589.9	6589.9	6589.9
2.5°	6598.3	6485.6	6381.4	6189.8	5981.3	5922.1	5679.9	5592.5	5530.5	5457.3	5434.7
5°	6632.1	6482.8	6147.5	5761.6	5454.5	5060.0	4800.8	4521.9	4319.1	4268.3	4254.3
7.5°	6702.6	6446.2	5868.6	5285.4	4657.1	4121.8	3713.3	3493.6	3299.2	3287.9	3268.2
10°	6781.5	6336.3	5564.3	4648.7	3845.7	3349.9	3104.8	3009.0	2961.1	2949.8	2944.2
12.5°	6846.3	6313.8	5223.4	4028.9	3271.0	2972.3	2899.1	2890.6	2910.4	2916.0	2927.3
15°	6874.4	6223.6	4812.1	3473.8	2913.2	2803.3	2834.3	2868.1	2882.2	2918.8	2890.6
17.5°	6928.0	6108.1	4305.0	3034.3	2713.1	2732.9	2786.4	2825.8	2848.4	2873.7	2837.1
20°	6956.1	6003.9	3828.8	2772.3	2642.7	2679.3	2752.6	2783.6	2811.8	2823.0	2780.8
22.5°	6930.8	5789.7	3409.0	2561.0	2575.1	2623.0	2687.8	2721.6	2704.7	2659.6	2634.3
25°	6863.2	5488.3	2972.3	2425.8	2479.3	2563.8	2614.5	2589.2	2558.2	2532.8	2524.4
27.5°	6860.3	5119.2	2656.8	2301.8	2397.6	2513.1	2496.2	2473.7	2487.8	2468.0	2445.5
30°	6874.4	4761.4	2397.6	2231.4	2338.4	2394.8	2414.5	2392.0	2408.9	2372.2	2383.5
32.5°	6801.2	4412.0	2228.6	2149.7	2268.0	2265.2	2330.0	2346.9	2307.4	2231.4	2242.6
35°	6832.2	4130.3	2084.9	2113.0	2189.1	2189.1	2239.8	2220.1	2115.9	2070.8	2082.0
37.5°	7046.3	3854.2	2014.4	2062.3	2113.0	2135.6	2118.7	2034.2	2008.8	2008.8	2014.4
40°	7249.1	3617.5	1972.2	2051.1	2042.6	2056.7	1932.7	1941.2	1941.2	1944.0	1929.9
42.5°	7429.5	3456.9	1938.4	1983.4	1997.5	1924.3	1848.2	1839.8	1859.5	1856.7	1845.4
45°	7494.3	3324.5	1890.5	1907.4	1918.6	1797.5	1760.9	1744.0	1766.5	1775.0	1786.2
47.5°	7246.3	3214.6	1836.9	1803.1	1780.6	1701.7	1653.8	1622.8	1651.0	1698.9	1710.2
50°	6928.0	3071.0	1752.4	1687.6	1639.7	1605.9	1572.1	1541.1	1560.8	1594.6	1586.2
52.5°	6457.5	2845.6	1645.4	1577.7	1496.0	1504.5	1473.5	1456.6	1467.9	1467.9	1459.4
55°	5786.9	2338.4	1465.0	1417.1	1349.5	1372.1	1377.7	1355.2	1332.6	1352.3	1335.4
57.5°	3950.0	1651.0	1307.3	1307.3	1239.7	1270.6	1267.8	1214.3	1160.8	1166.4	1155.1
60°	2284.9	1315.7	1205.8	1194.6	1124.1	1149.5	1155.1	1118.5	1036.8	1042.4	1031.2
62.5°	1298.8	1124.1	1053.7	1036.8	1022.7	1045.3	1045.3	997.4	926.9	932.6	921.3
65°	1104.4	1042.4	941.0	938.2	932.6	938.2	915.7	864.9	803.0	777.6	780.4
67.5°	1003.0	963.5	864.9	839.6	822.7	819.9	777.6	729.7	701.5	679.0	676.2
70°	879.0	848.0	774.8	741.0	724.1	684.6	642.4	611.4	571.9	560.7	571.9
72.5°	695.9	693.1	664.9	628.3	591.7	560.7	524.0	481.8	445.1	436.7	417.0
75°	481.8	487.4	493.0	487.4	456.4	417.0	374.7	340.9	295.8	270.5	264.8
77.5°	315.5	324.0	332.5	321.2	301.5	264.8	236.7	194.4	160.6	140.9	138.1
80°	231.0	242.3	247.9	239.5	216.9	188.8	157.8	124.0	98.6	81.7	81.7
82.5°	177.5	188.8	194.4	180.3	157.8	135.2	112.7	87.3	67.6	53.5	50.7
85°	62.0	59.2	70.4	73.3	87.3	81.7	67.6	50.7	39.4	28.2	25.4
87.5°	16.9	16.9	19.7	19.7	16.9	14.1	14.1	14.1	11.3	8.5	8.5
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)