

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: P530546

Luminaire Tested: **GALN-SA5D-735-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530546
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-SA5D-735-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1200mA 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: 30588 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

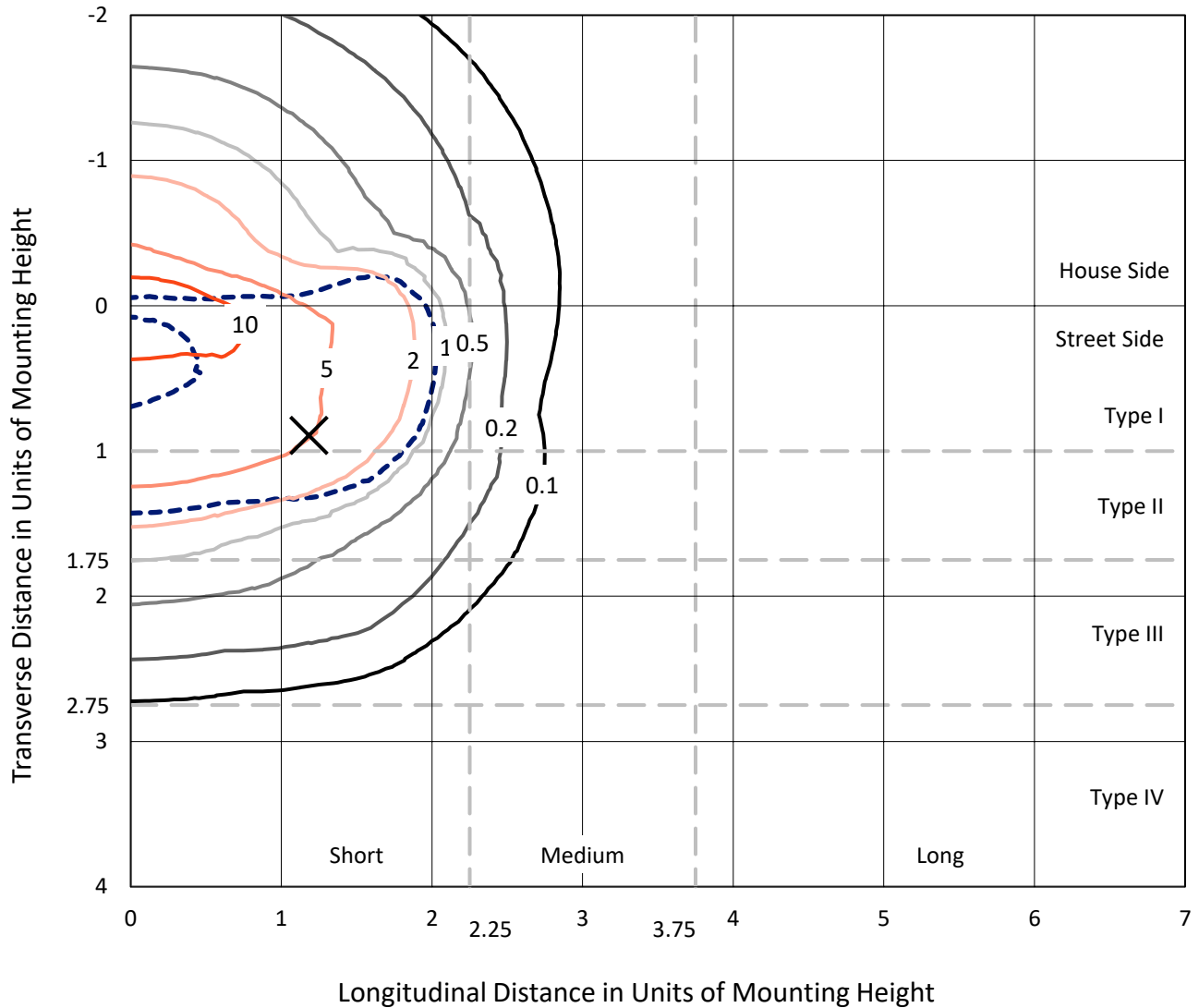
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

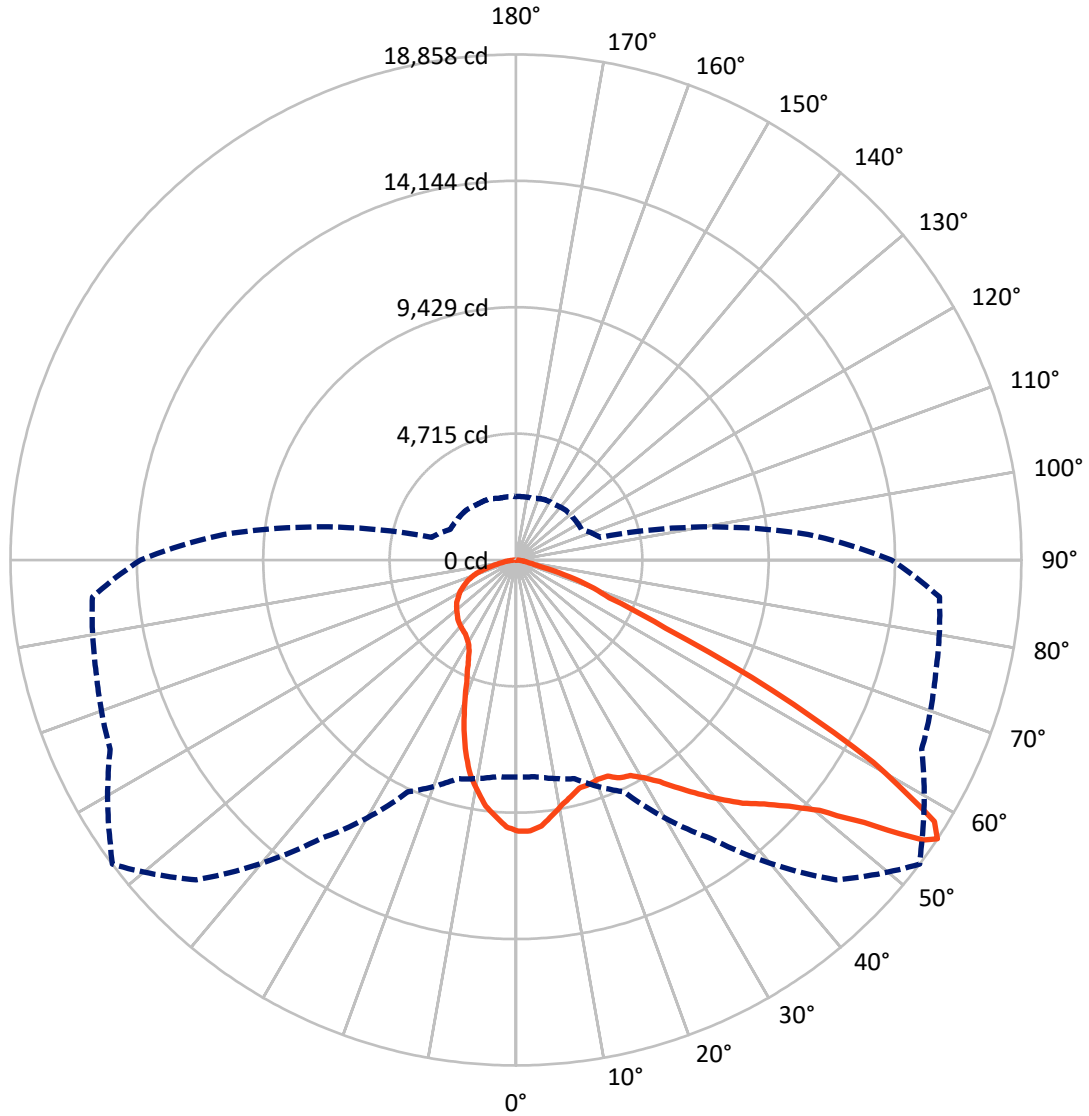
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 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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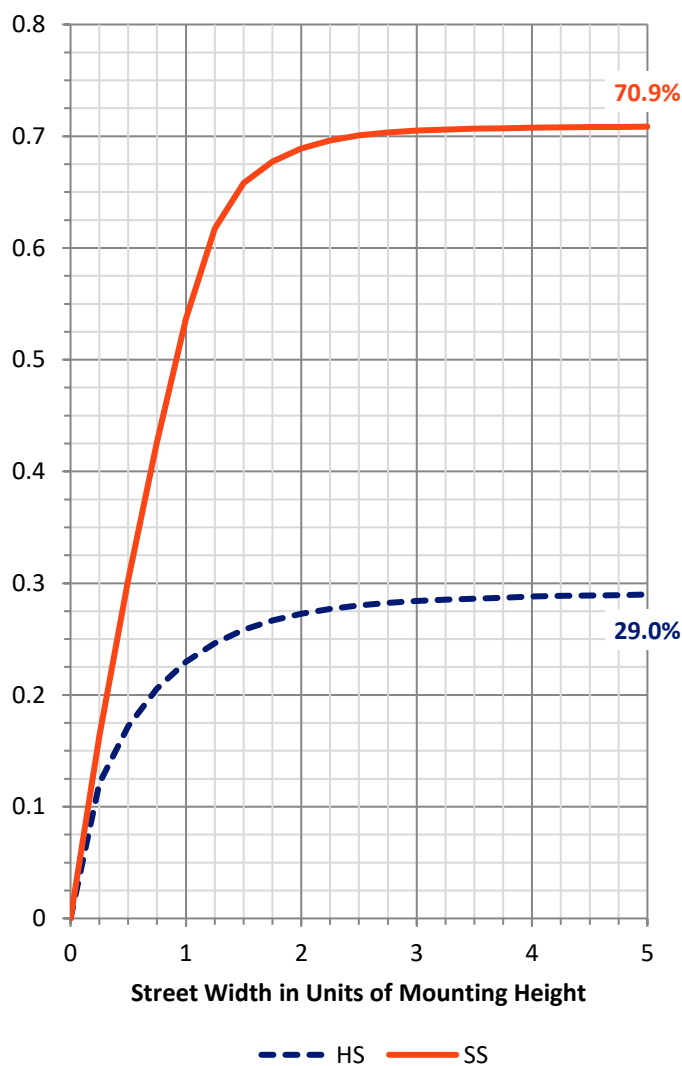
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8926.2	0.0	8926.2
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	21661.8	0.0	21661.8
	% Fixture	70.8	0.0	70.8
Total	Lumens	30588.0	0.0	30588.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	895.9	2.9
10°-20°	2237.5	7.3
20°-30°	3299.4	10.8
30°-40°	4714.2	15.4
40°-50°	6488.5	21.2
50°-60°	7667.7	25.1
60°-70°	4086.4	13.4
70°-80°	1036.7	3.4
80°-90°	161.7	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°	30588.0	100.0
0°-180°	30588.0	100.0

Coefficient of Utilization

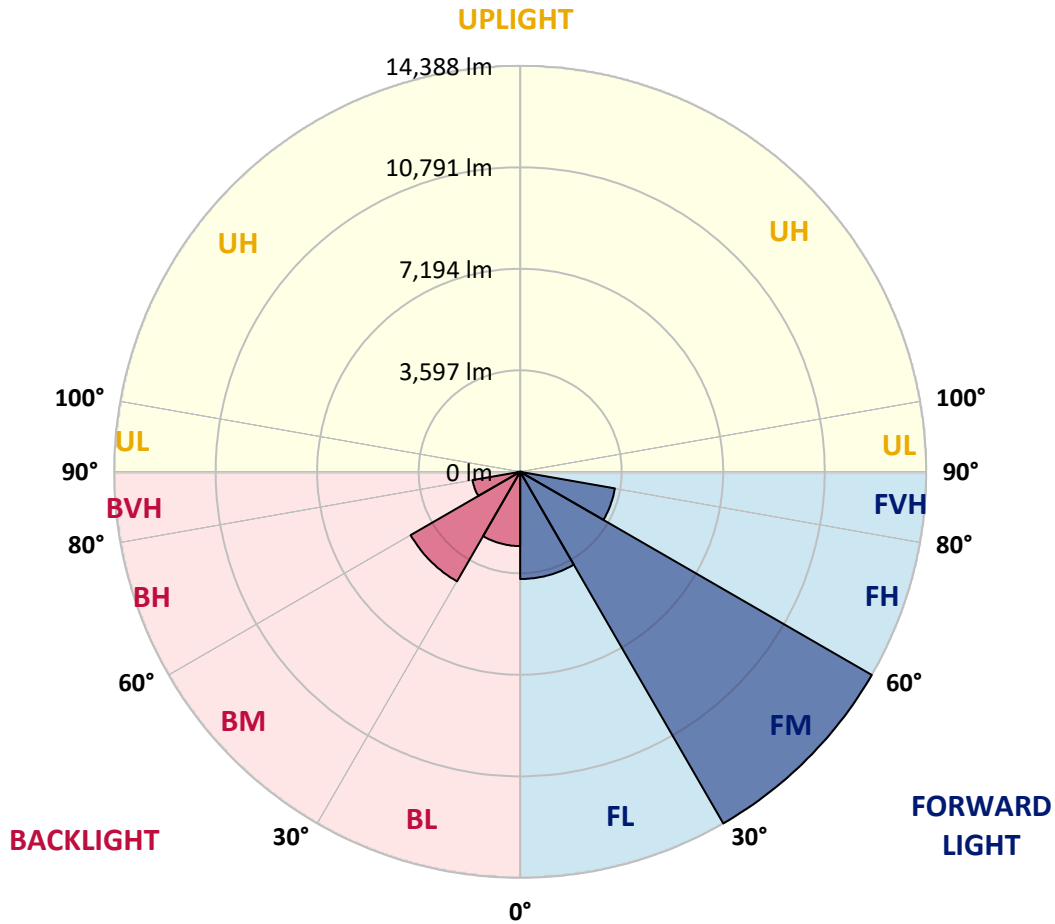


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3800.1	12.4			
FM (30°-60°)	14388.0	47.0			
FH (60°-80°)	3408.7	11.1			G2/5000
FVH (80°-90°)	65.0	0.2			G1/100
BL (0°-30°)	2632.7	8.6	B4/5000		
BM (30°-60°)	4482.5	14.7	B3/5000		
BH (60°-80°)	1714.4	5.6	B3/2500		G3/2500
BVH (80°-90°)	96.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	10119.7	10119.7	10119.7	10119.7	10119.7	10119.7	10119.7	10119.7	10119.7	10119.7	10119.7
2.5°	9994.2	9907.8	9958.8	9939.2	10100.1	10147.2	10123.6	10143.3	10233.5	10190.3	10100.1
5°	9338.9	9460.5	9484.0	9542.9	9637.1	9821.5	9966.7	10005.9	10049.1	10249.2	10229.6
7.5°	8742.4	8824.8	8781.7	8954.3	9158.4	9456.6	9633.2	9664.5	10060.9	10170.7	10253.1
10°	8365.7	8283.3	8479.5	8526.6	8758.1	9099.5	9311.4	9440.9	9801.9	10237.4	10288.4
12.5°	8016.5	7989.0	8106.8	8240.2	8499.1	8852.3	9068.1	9119.1	9676.3	10135.4	10374.8
15°	7757.5	7726.1	7843.9	7942.0	8244.1	8558.0	8832.7	8977.9	9539.0	10076.6	10300.2
17.5°	7553.5	7549.6	7616.3	7792.8	8102.8	8365.7	8809.1	8817.0	9468.3	10166.8	10363.0
20°	7541.7	7537.8	7549.6	7745.8	8028.3	8350.0	8734.6	8805.2	9468.3	10104.0	10366.9
22.5°	7639.8	7577.0	7647.7	7773.2	7977.3	8377.5	8762.0	8919.0	9695.9	10414.0	10543.5
25°	7796.8	7812.5	7851.7	7894.9	8012.6	8440.3	9005.3	9134.8	9962.8	10680.8	10786.8
27.5°	8083.2	8075.4	8091.1	8114.6	8216.6	8499.1	9103.4	9437.0	10520.0	11155.6	11049.7
30°	8503.1	8475.6	8538.4	8620.8	8526.6	8687.5	9429.1	9680.2	11037.9	11634.3	11344.0
32.5°	8883.7	8985.7	9103.4	9138.7	9025.0	9056.3	9860.7	10115.8	11469.5	12222.9	11705.0
35°	9358.5	9440.9	9597.8	9707.7	9688.1	9593.9	10449.3	10786.8	12093.4	12654.5	12085.6
37.5°	9821.5	9919.6	10178.6	10504.3	10323.8	10280.6	11077.1	11355.7	12285.7	12886.1	12364.2
40°	10567.0	10563.1	11010.4	11179.2	11340.0	11265.5	11728.5	11822.7	12387.7	12835.0	12372.0
42.5°	11442.1	11387.1	11842.3	12105.2	12313.2	12321.0	12407.3	12376.0	12434.8	12576.1	12289.6
45°	12273.9	12391.6	12850.7	13321.6	13529.6	13553.1	12980.2	12921.4	12517.2	12501.5	12132.7
47.5°	13290.2	13317.7	13694.4	14314.4	14797.0	14632.2	13721.8	13592.4	12878.2	12999.9	12395.6
50°	13349.1	13553.1	13890.6	14620.4	16103.7	16060.5	14683.2	14439.9	13458.9	13706.2	13129.3
52.5°	12117.0	12069.9	12470.1	13663.0	16005.6	17480.9	16276.3	15695.6	14706.7	14518.4	14318.3
55°	9232.9	9342.8	9695.9	10900.6	13898.4	17500.6	18446.2	17971.4	16040.9	15719.1	15487.6
56°	8098.9	8114.6	8448.1	9546.8	12682.0	16876.7	18858.2	18473.7	16704.0	16213.5	15860.4
57.5°	6713.8	6623.5	6796.2	7396.5	10704.4	15558.2	18407.0	18783.7	17480.9	16747.2	16256.7
60°	5285.5	5265.9	5195.2	5305.1	6764.8	11720.7	15322.8	16170.4	17402.5	16244.9	15570.0
62.5°	4316.3	4218.2	4359.4	4516.4	4700.8	7271.0	10767.2	11265.5	13816.0	12968.5	11697.1
65°	3347.1	3300.0	3476.6	3986.7	4096.5	4618.4	6133.0	6517.6	8157.8	8012.6	7055.2
67.5°	2303.3	2311.2	2464.2	3241.1	3798.3	3751.2	3755.2	3955.3	4257.4	3162.7	2754.6
70°	1459.7	1455.8	1538.2	2087.5	3056.7	3088.1	2931.1	2872.3	2723.2	1648.0	1746.1
72.5°	937.8	910.3	953.5	1153.6	1581.3	1828.5	1883.5	1918.8	1577.4	1294.9	1404.8
75°	529.7	502.3	486.6	537.6	623.9	722.0	792.6	816.2	914.3	981.0	1039.8
77.5°	160.9	145.2	176.6	235.4	310.0	415.9	506.2	521.9	616.1	694.5	753.4
80°	70.6	78.5	109.9	157.0	219.7	294.3	357.1	380.6	443.4	502.3	518.0
82.5°	43.2	47.1	74.6	105.9	153.0	208.0	255.1	262.9	325.7	372.8	384.5
85°	15.7	19.6	39.2	62.8	98.1	133.4	133.4	145.2	133.4	133.4	145.2
87.5°	0.0	0.0	3.9	7.8	7.8	11.8	15.7	15.7	19.6	23.5	27.5
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°	10119.7	10119.7	10119.7	10119.7	10119.7	10119.7	10119.7	10119.7	10119.7	10119.7	10119.7
2.5°	10147.2	10127.6	10096.2	9982.4	9970.6	9935.3	9739.1	9707.7	9739.1	9644.9	9652.8
5°	10127.6	10186.4	9951.0	9837.2	9625.3	9472.3	9295.7	9205.4	9044.6	8942.5	9056.3
7.5°	10213.9	10190.3	9896.1	9648.8	9331.0	8942.5	8632.6	8456.0	8173.5	8095.0	8153.8
10°	10182.5	10056.9	9711.6	9385.9	8785.6	8444.2	7942.0	7455.4	7188.6	7051.2	7031.6
12.5°	10139.3	10104.0	9527.2	8966.1	8334.3	7616.3	6910.0	6450.9	6015.3	5827.0	5854.4
15°	10190.3	9892.1	9181.9	8471.7	7632.0	6690.2	5929.0	5336.5	5034.4	4912.7	4912.7
17.5°	10166.8	9790.1	9017.1	7918.4	6855.0	5740.7	4904.9	4547.8	4422.2	4422.2	4457.5
20°	10178.6	9856.8	8683.6	7365.1	5936.8	4834.2	4226.0	4096.5	4151.5	4171.1	4190.7
22.5°	10245.3	9637.1	8357.9	6756.9	5085.4	4135.8	3837.6	3841.5	3939.6	4045.5	4025.9
25°	10327.7	9550.8	7961.6	6152.7	4434.0	3794.4	3700.2	3688.5	3763.0	3817.9	3825.8
27.5°	10257.1	9401.6	7557.4	5399.3	3900.3	3566.8	3547.2	3555.0	3578.6	3688.5	3653.1
30°	10488.6	9444.8	7051.2	4767.5	3606.1	3492.3	3468.7	3456.9	3492.3	3523.7	3496.2
32.5°	10775.0	9291.8	6674.5	4159.3	3460.9	3437.3	3390.2	3374.5	3394.2	3362.8	3378.5
35°	10900.6	9264.3	6184.1	3723.8	3347.1	3327.5	3300.0	3296.1	3300.0	3272.5	3249.0
37.5°	10971.2	9393.8	5622.9	3523.7	3276.4	3296.1	3233.3	3225.4	3154.8	3170.5	3182.3
40°	11092.8	9193.7	5167.8	3331.4	3233.3	3194.0	3139.1	3127.3	3080.3	3052.8	3080.3
42.5°	10916.3	9134.8	4720.4	3249.0	3170.5	3127.3	3088.1	3021.4	3005.7	2982.2	2966.5
45°	10775.0	8797.4	4320.2	3147.0	3096.0	3072.4	2997.9	2927.2	2868.4	2891.9	2856.6
47.5°	10881.0	8679.6	3923.9	3060.6	2993.9	2966.5	2891.9	2837.0	2778.1	2750.6	2742.8
50°	11304.7	8899.4	3590.4	2997.9	2907.6	2891.9	2793.8	2731.0	2676.1	2656.5	2664.3
52.5°	12317.1	9499.7	3362.8	2868.4	2825.2	2754.6	2699.6	2621.2	2585.8	2523.1	2562.3
55°	13600.2	10476.8	3303.9	2746.7	2723.2	2660.4	2585.8	2527.0	2460.3	2409.3	2397.5
56°	14012.2	10943.7	3256.8	2699.6	2660.4	2625.1	2527.0	2491.7	2385.7	2374.0	2366.1
57.5°	14345.7	11355.7	3264.7	2609.4	2570.1	2538.8	2479.9	2393.6	2322.9	2279.8	2299.4
60°	13592.4	10629.8	3115.6	2472.1	2464.2	2405.3	2322.9	2283.7	2197.4	2146.4	2134.6
62.5°	10104.0	7216.0	2527.0	2295.5	2291.6	2228.8	2134.6	2091.4	2075.7	2005.1	2005.1
65°	5819.1	4524.2	2185.6	2150.3	2118.9	2056.1	1961.9	1926.6	1887.4	1863.8	1844.2
67.5°	2483.8	2346.5	1985.5	1981.6	1946.3	1867.8	1773.6	1718.7	1667.7	1620.6	1644.1
70°	1801.1	1828.5	1793.2	1773.6	1730.4	1632.3	1549.9	1483.2	1404.8	1373.4	1396.9
72.5°	1428.3	1487.2	1538.2	1542.1	1491.1	1377.3	1287.0	1196.8	1110.5	1067.3	1086.9
75°	1083.0	1122.2	1173.2	1185.0	1110.5	1032.0	945.7	851.5	784.8	733.8	741.6
77.5°	780.9	773.0	820.1	812.2	776.9	722.0	643.5	557.2	482.6	435.6	439.5
80°	533.6	545.4	572.9	569.0	525.8	490.5	431.6	361.0	306.1	266.8	259.0
82.5°	372.8	392.4	415.9	396.3	361.0	325.7	282.5	231.5	188.3	157.0	149.1
85°	133.4	153.0	176.6	188.3	200.1	192.3	160.9	129.5	94.2	78.5	74.6
87.5°	27.5	31.4	35.3	35.3	35.3	31.4	27.5	27.5	23.5	11.8	11.8
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)