

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: P530548

Luminaire Tested: **GALN-SA5D-735-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
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-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30531 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

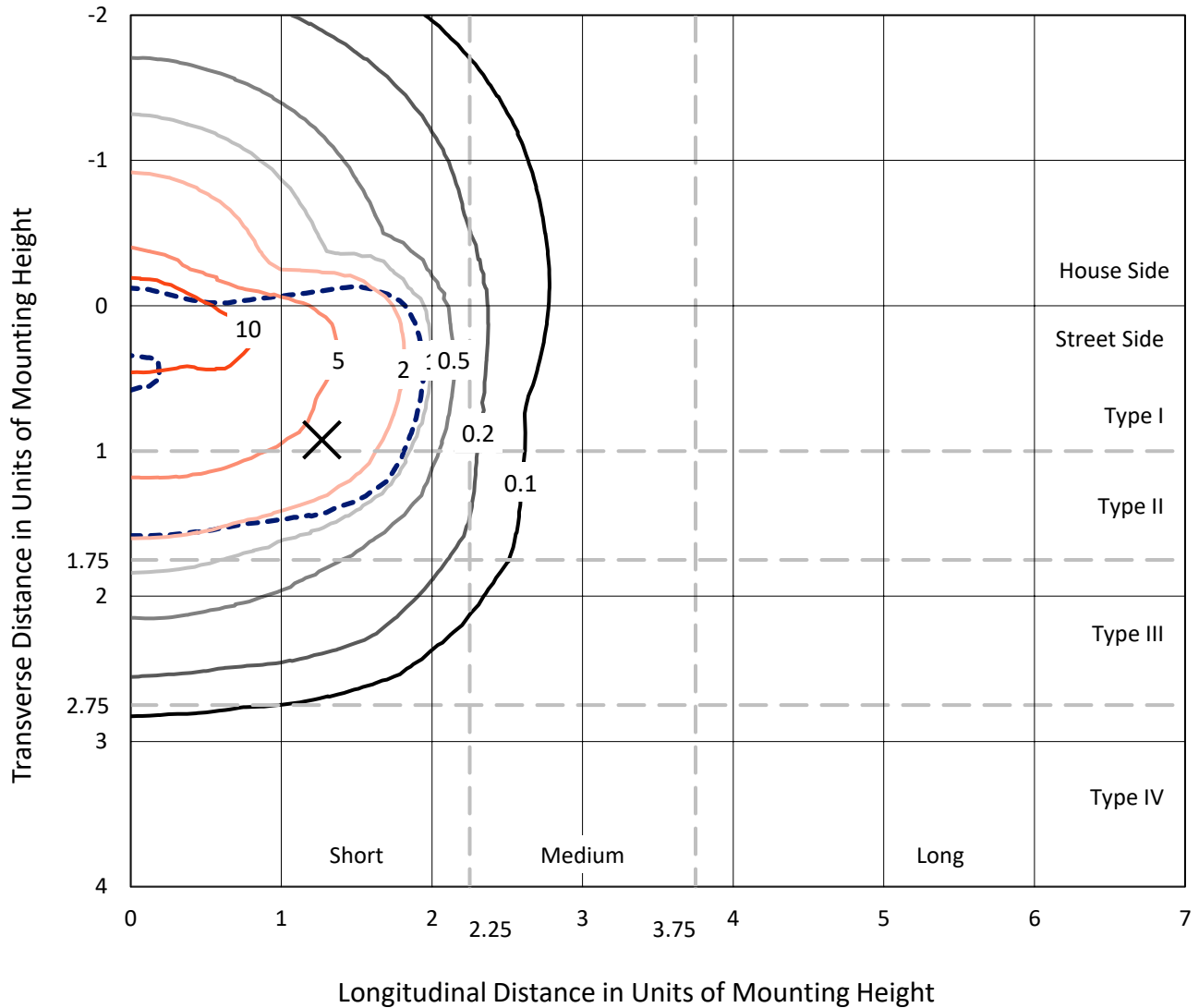
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530548
 CATALOG NUMBER: GALN-SA5D-735-U-SL3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

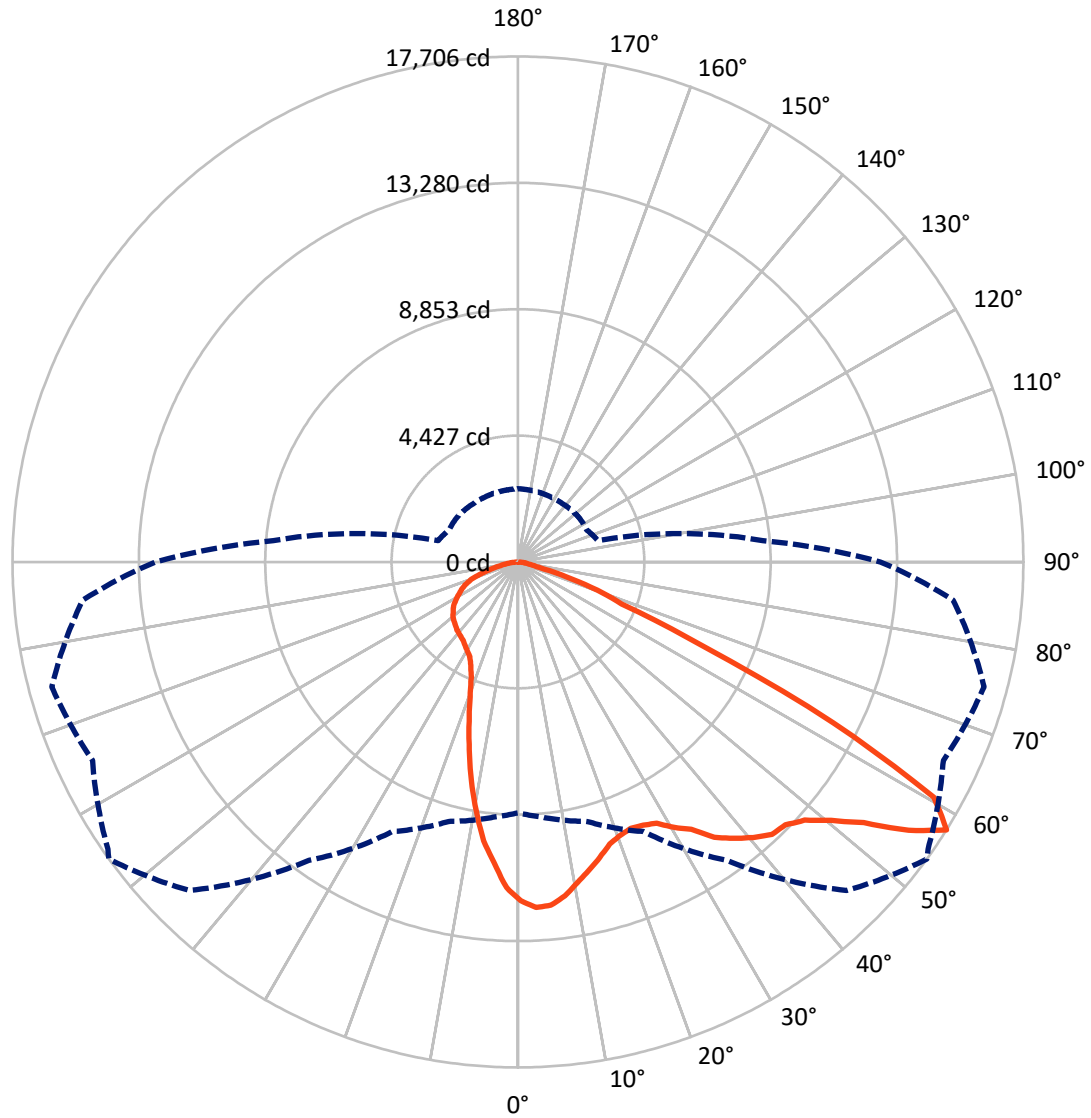
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19 fc
 Type II - Short - N/A

REPORT NUMBER: P530548
CATALOG NUMBER: GALN-SA5D-735-U-SL3-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P530548
 CATALOG NUMBER: GALN-SA5D-735-U-SL3-GRSWH

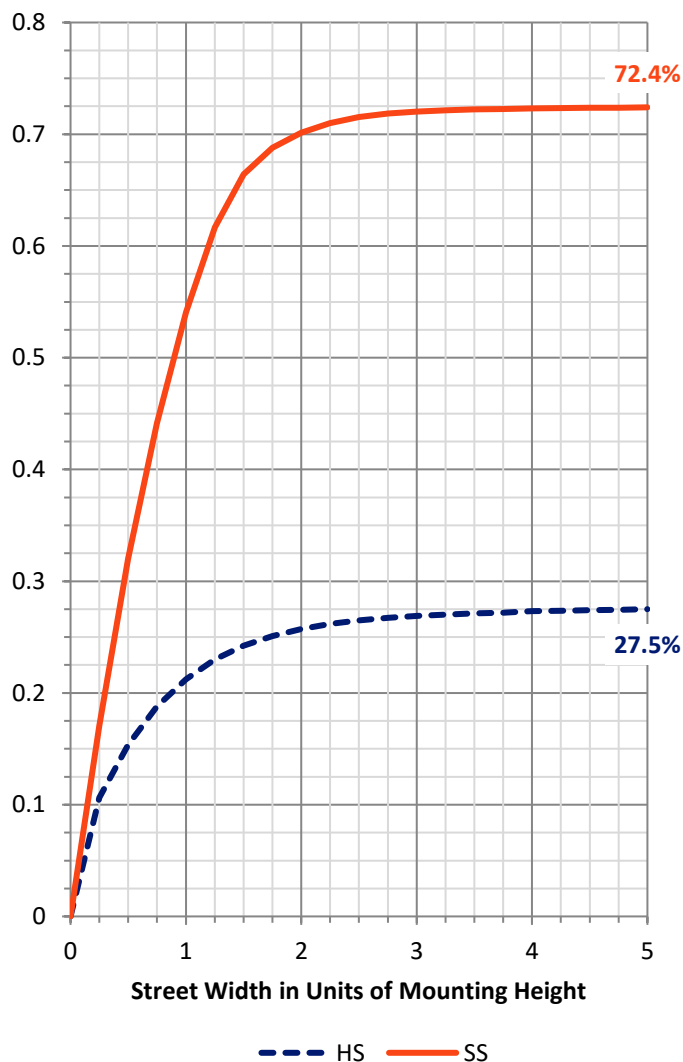
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8446.6	0.0	8446.6
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	22084.4	0.0	22084.4
	% Fixture	72.3	0.0	72.3
Total	Lumens	30531.0	0.0	30531.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1023.4	3.4
10°-20°	2369.6	7.8
20°-30°	3329.3	10.9
30°-40°	4654.4	15.2
40°-50°	6301.2	20.6
50°-60°	7675.1	25.1
60°-70°	3997.5	13.1
70°-80°	1024.3	3.4
80°-90°	156.3	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°	30531.0	100.0
0°-180°	30531.0	100.0

Coefficient of Utilization

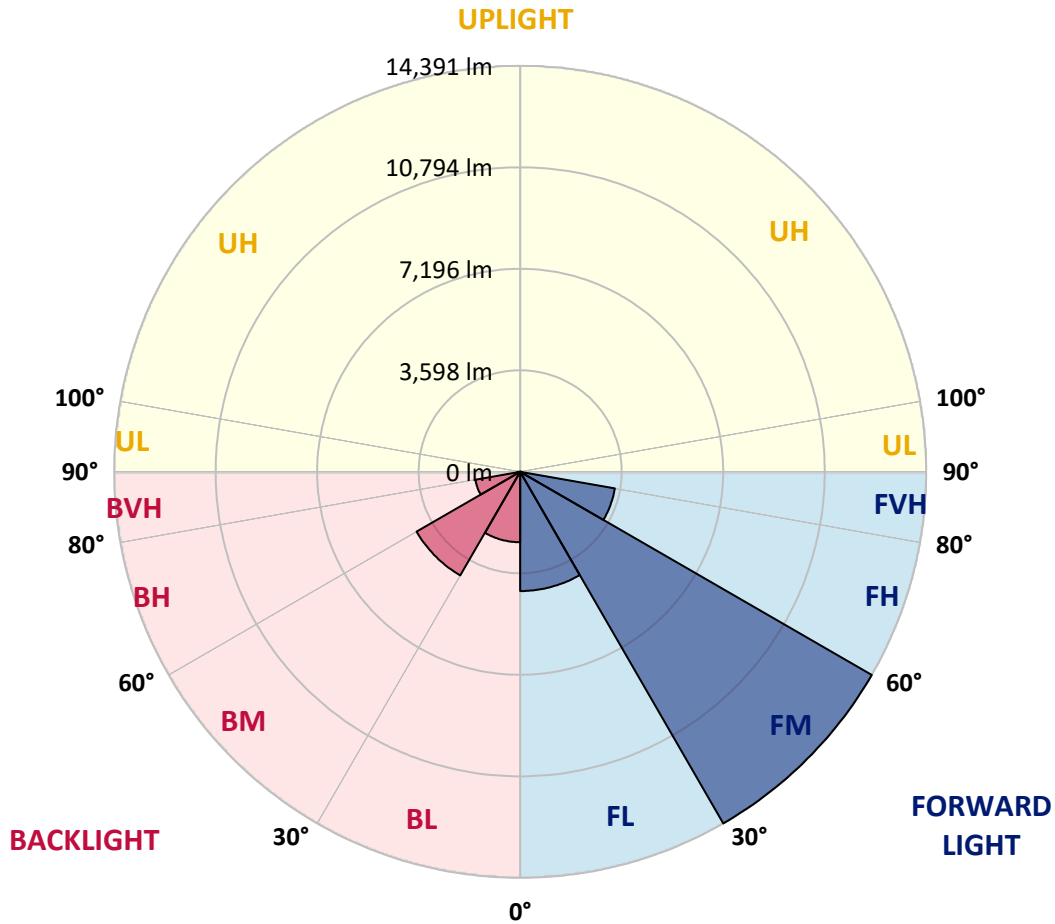


REPORT NUMBER: P530548
 CATALOG NUMBER: GALN-SA5D-735-U-SL3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4225.9	13.8			
FM (30°-60°)	14391.4	47.1			
FH (60°-80°)	3408.1	11.2			G2/5000
FVH (80°-90°)	59.0	0.2			G1/100
BL (0°-30°)	2496.4	8.2	B3/2500		
BM (30°-60°)	4239.3	13.9	B3/5000		
BH (60°-80°)	1613.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	97.2	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





REPORT NUMBER: P530548

CATALOG NUMBER: GALN-SA5D-735-U-SL3-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	11867.1	11867.1	11867.1	11867.1	11867.1	11867.1	11867.1	11867.1	11867.1	11867.1	11867.1
2.5°	12204.5	12157.4	12165.3	12228.1	12149.6	12118.2	12118.2	11965.2	11976.9	11871.0	11843.5
5°	11922.0	11812.1	11886.7	11980.9	11996.6	12027.9	12079.0	12039.7	11929.8	11816.0	11631.6
7.5°	11184.2	11282.3	11309.8	11376.5	11517.8	11647.3	11808.2	11698.3	11694.4	11580.6	11470.7
10°	10536.7	10477.9	10627.0	10725.1	10960.5	11176.4	11423.6	11411.8	11470.7	11341.2	11152.8
12.5°	9893.1	9846.0	9916.7	10140.4	10470.0	10783.9	11078.3	10968.4	11282.3	11258.8	10854.6
15°	9210.3	9245.6	9347.7	9555.6	9987.3	10364.0	10736.9	10740.8	11019.4	11113.6	10572.0
17.5°	8731.5	8692.3	8821.8	9131.8	9516.4	9967.7	10391.5	10477.9	10905.6	10960.5	10485.7
20°	8374.4	8429.4	8598.1	8755.1	9198.5	9744.0	10222.8	10254.2	10882.1	11031.2	10348.4
22.5°	8288.1	8256.7	8311.6	8566.7	8931.7	9524.2	10132.5	10250.2	10878.1	11007.6	10089.3
25°	8197.8	8299.9	8295.9	8551.0	8817.9	9347.7	10207.1	10336.6	11086.1	11129.3	10124.7
27.5°	8401.9	8390.1	8500.0	8519.6	8849.3	9394.7	10364.0	10462.2	11431.5	11396.1	10152.1
30°	8606.0	8547.1	8613.8	8845.3	8998.4	9665.5	10795.7	10787.9	11878.8	11855.3	10238.5
32.5°	8857.1	8829.7	8872.8	9076.9	9335.9	10026.6	11160.7	11392.2	12334.0	12483.2	10536.7
35°	8904.2	9018.0	9120.0	9394.7	9763.6	10611.3	11847.4	12039.7	12859.9	13326.9	11105.7
37.5°	9202.5	9245.6	9485.0	9971.6	10309.1	11392.2	12283.0	12404.7	13338.7	13868.4	11706.2
40°	9520.3	9571.3	9932.4	10442.5	10905.6	11902.4	12691.2	12730.4	13491.7	14284.4	12098.6
42.5°	9952.0	9999.1	10356.2	10995.9	11615.9	12338.0	13052.2	13095.4	13479.9	14763.2	12722.5
45°	10399.4	10513.2	10933.1	11659.1	12216.3	12848.1	13134.6	13311.2	13589.8	15190.9	13228.8
47.5°	11027.3	11133.2	11478.5	12188.8	12840.3	13295.5	13515.3	13687.9	13852.7	15563.7	13554.5
50°	11694.4	11714.0	12133.9	12777.5	13256.2	13801.7	14225.5	14284.4	14198.1	15995.4	14107.8
52.5°	12184.9	12247.7	12573.4	13201.3	13915.5	14586.6	15167.4	15230.2	15061.4	16156.3	14296.2
55°	11372.6	11337.3	11867.1	12702.9	14359.0	15756.0	16599.7	16646.8	15689.3	16654.7	14912.3
57.5°	8790.4	8959.2	9410.4	10419.0	12757.9	16274.0	17706.4	17537.6	16442.8	16905.8	15304.7
60°	6388.7	6349.5	6651.7	7326.6	9614.5	14025.4	16741.0	16913.7	15826.7	15238.0	12620.5
62.5°	5203.6	5148.7	5172.2	5195.8	6204.3	9308.4	12392.9	12389.0	12188.8	10952.7	8511.8
65°	4159.7	4289.2	4301.0	4477.6	4607.1	5560.7	7181.4	7566.0	6588.9	5403.7	3920.4
67.5°	3135.5	3088.4	3245.4	3873.3	4116.6	4014.5	3920.4	3963.5	2817.6	2032.8	1915.1
70°	1848.3	1828.7	2017.1	2699.9	3390.6	3190.4	2955.0	2958.9	1934.7	1420.6	1581.5
72.5°	1012.5	1008.5	1047.8	1369.6	1926.8	2001.4	1773.8	1828.7	1153.7	1149.8	1236.2
75°	565.1	553.3	541.6	604.3	694.6	733.8	749.5	757.4	792.7	886.9	922.2
77.5°	208.0	200.1	200.1	231.5	294.3	368.9	467.0	474.8	561.2	643.6	678.9
80°	70.6	78.5	106.0	145.2	196.2	262.9	317.9	325.7	396.4	451.3	463.1
82.5°	43.2	47.1	70.6	102.0	141.3	184.4	235.5	239.4	294.3	329.6	345.3
85°	19.6	23.5	39.2	62.8	90.3	121.7	125.6	125.6	121.7	125.6	117.7
87.5°	0.0	0.0	7.8	7.8	7.8	11.8	15.7	11.8	19.6	23.5	23.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P530548

CATALOG NUMBER: GALN-SA5D-735-U-SL3-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11867.1	11867.1	11867.1	11867.1	11867.1	11867.1	11867.1	11867.1	11867.1	11867.1	11867.1
2.5°	11761.1	11717.9	11584.5	11466.8	11431.5	11274.5	11042.9	11070.4	10901.7	10980.2	10897.8
5°	11600.2	11455.0	11113.6	10968.4	10587.7	10415.1	10297.3	10003.0	9865.7	9838.2	9720.5
7.5°	11188.1	11097.9	10670.1	10277.7	9873.5	9528.2	9084.7	8782.6	8566.7	8507.9	8335.2
10°	10862.4	10662.3	10069.7	9473.2	8896.4	8295.9	7719.1	7267.8	7048.0	6792.9	6706.6
12.5°	10540.6	10238.5	9437.9	8672.7	7927.1	7169.7	6471.2	5921.8	5443.0	5329.2	5289.9
15°	10340.5	9814.6	8872.8	7950.6	6891.1	5902.1	5203.6	4842.6	4548.3	4426.6	4512.9
17.5°	10077.6	9465.4	8331.3	7103.0	5937.4	5027.0	4442.3	4218.6	4112.7	4124.4	4089.1
20°	9747.9	9135.7	7621.0	6333.8	5085.9	4359.9	4026.3	3943.9	3959.6	3987.1	3975.3
22.5°	9512.5	8735.5	7106.9	5548.9	4395.2	3991.0	3853.7	3794.8	3845.8	3869.3	3849.7
25°	9332.0	8394.1	6482.9	4854.3	3994.9	3783.0	3720.2	3716.3	3794.8	3826.2	3806.6
27.5°	9167.1	8076.2	5862.9	4324.6	3728.1	3622.1	3602.5	3649.6	3700.6	3732.0	3759.5
30°	9069.0	7832.9	5282.1	3881.1	3594.6	3543.6	3508.3	3551.5	3579.0	3610.3	3594.6
32.5°	9163.2	7660.2	4720.9	3630.0	3484.8	3433.8	3480.8	3453.4	3500.5	3527.9	3484.8
35°	9457.5	7507.2	4320.6	3496.5	3359.2	3378.8	3386.7	3374.9	3394.5	3371.0	3422.0
37.5°	9747.9	7452.2	3951.8	3382.7	3300.3	3300.3	3292.5	3268.9	3308.2	3300.3	3323.9
40°	10116.8	7487.5	3637.8	3261.1	3245.4	3237.5	3206.1	3202.2	3186.5	3190.4	3198.3
42.5°	10438.6	7566.0	3457.3	3182.6	3194.4	3210.1	3151.2	3104.1	3123.7	3084.5	3084.5
45°	10780.0	7636.7	3296.4	3127.7	3115.9	3112.0	3064.9	3037.4	3021.7	3025.6	3060.9
47.5°	11317.6	7738.7	3174.7	3053.1	3060.9	3002.1	2990.3	2955.0	2970.7	2994.2	2998.2
50°	11698.3	7954.5	3080.6	2966.8	2994.2	2955.0	2884.4	2868.7	2868.7	2907.9	2900.0
52.5°	11965.2	8256.7	2990.3	2872.6	2884.4	2853.0	2829.4	2794.1	2770.5	2825.5	2853.0
55°	12781.4	8759.0	2966.8	2794.1	2790.2	2758.8	2715.6	2680.3	2668.5	2676.4	2731.3
57.5°	12702.9	8602.0	2892.2	2656.7	2648.9	2605.7	2562.6	2550.8	2546.9	2554.7	2570.4
60°	10313.0	6353.4	2582.2	2499.8	2488.0	2480.2	2437.0	2389.9	2366.3	2389.9	2370.3
62.5°	6824.3	4253.9	2276.1	2311.4	2319.3	2299.6	2229.0	2181.9	2189.8	2217.2	2174.1
65°	3351.3	2499.8	2064.2	2158.4	2166.2	2111.3	2044.6	1989.6	1962.1	1985.7	1966.1
67.5°	1915.1	1911.1	1891.5	1989.6	1985.7	1930.8	1824.8	1777.7	1730.6	1738.5	1726.7
70°	1624.7	1656.0	1695.3	1754.2	1750.2	1687.4	1561.9	1526.5	1459.8	1452.0	1432.4
72.5°	1279.3	1334.3	1420.6	1463.8	1428.4	1350.0	1267.5	1208.7	1149.8	1114.5	1126.3
75°	949.7	1028.2	1075.3	1102.7	1047.8	1004.6	937.9	867.3	796.6	765.2	753.5
77.5°	690.7	714.2	757.4	777.0	741.7	698.5	659.3	588.6	521.9	478.8	467.0
80°	482.7	498.4	529.8	529.8	529.8	510.2	459.1	388.5	345.3	306.1	298.2
82.5°	337.5	353.2	384.6	368.9	365.0	341.4	310.0	255.1	208.0	180.5	172.7
85°	117.7	129.5	157.0	188.4	200.1	196.2	176.6	141.3	109.9	90.3	82.4
87.5°	27.5	27.5	31.4	27.5	27.5	31.4	27.5	27.5	27.5	19.6	15.7
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)