

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: P530555

Luminaire Tested: **GALN-SA5D-735-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
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-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23868 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

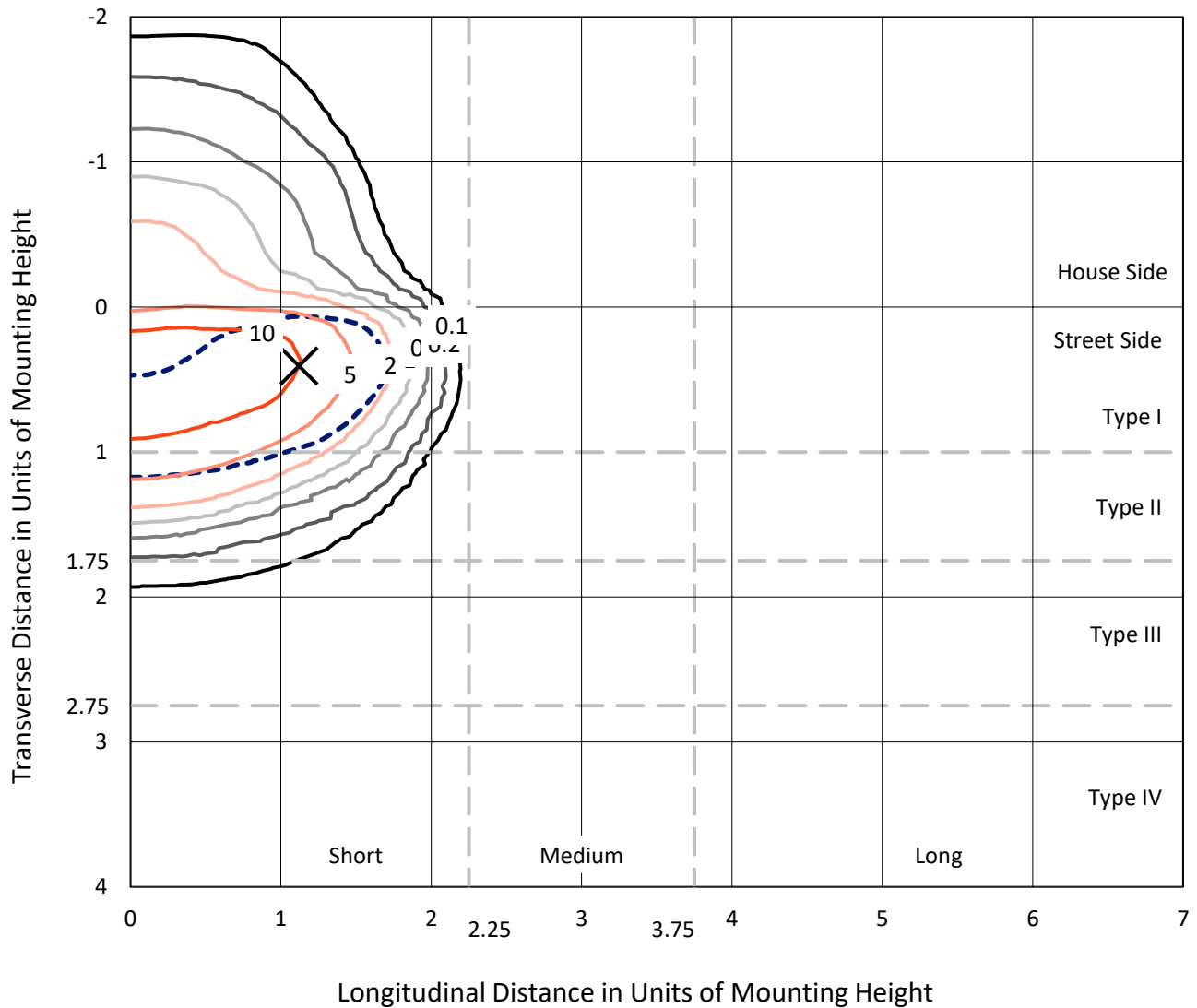
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

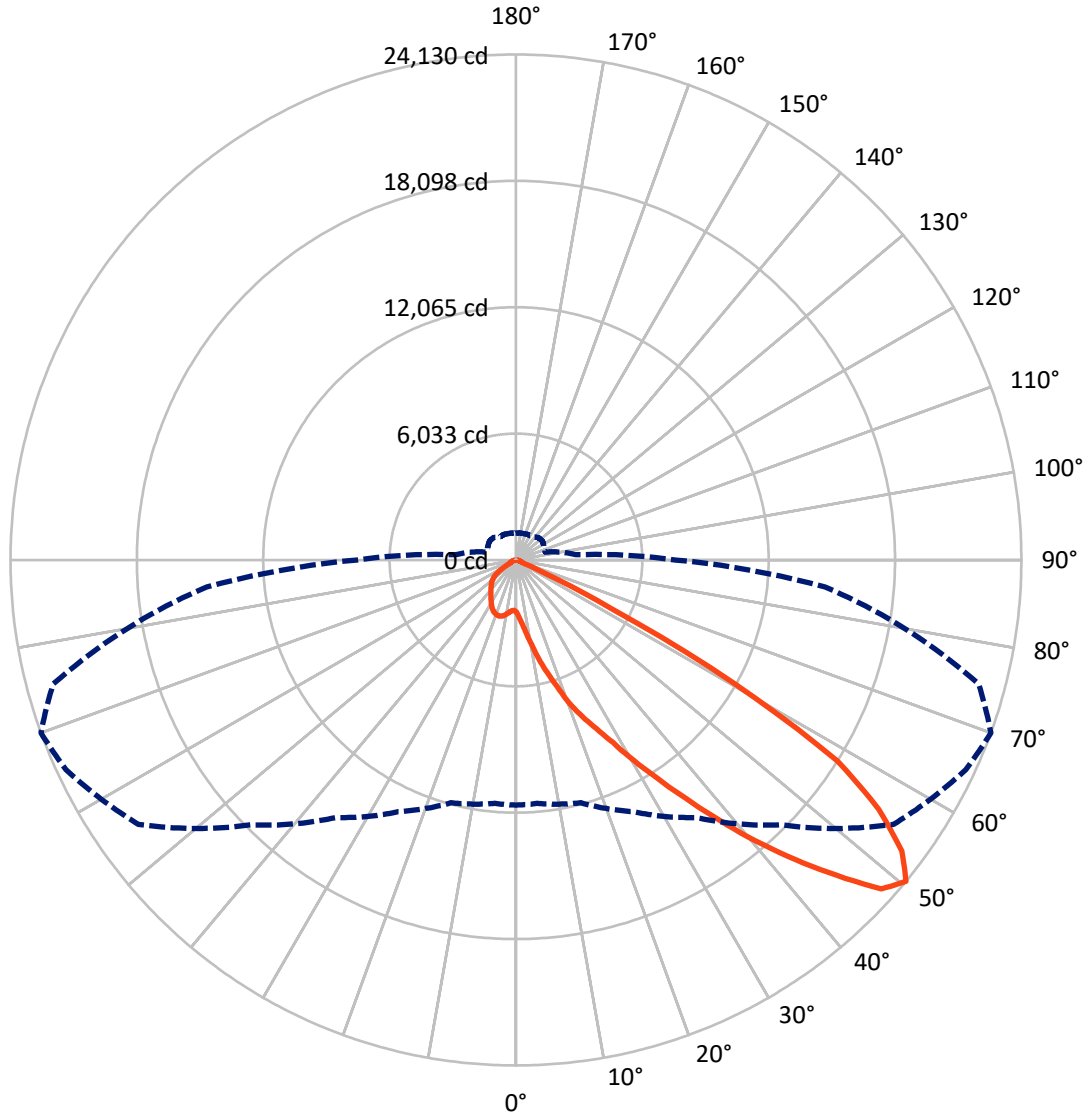
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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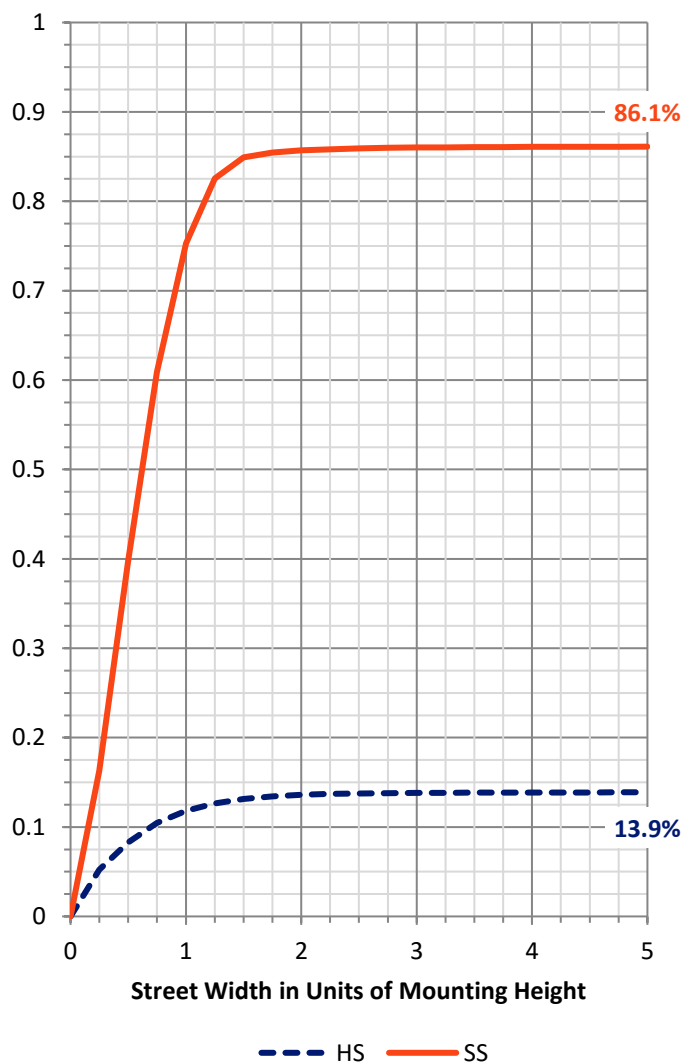
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3333.3	0.0	3333.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	20534.7	0.0	20534.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	23868.0	0.0	23868.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.5	1.3
10°-20°	1390.6	5.8
20°-30°	2917.3	12.2
30°-40°	5028.4	21.1
40°-50°	7349.0	30.8
50°-60°	5723.7	24.0
60°-70°	969.8	4.1
70°-80°	133.2	0.6
80°-90°	34.5	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°	23868.0	100.0
0°-180°	23868.0	100.0

Coefficient of Utilization



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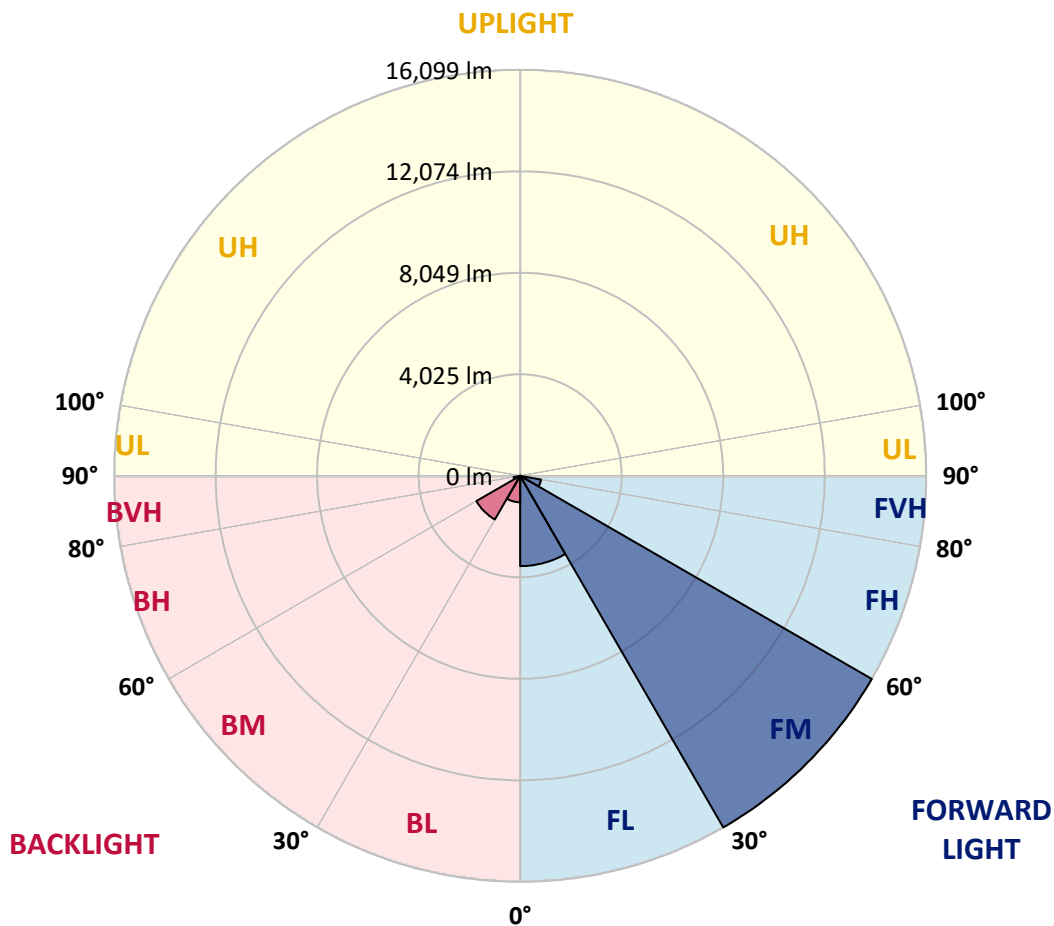
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3580.5	15.0			
FM (30°-60°)	16098.6	67.4			
FH (60°-80°)	839.7	3.5			G1/1800
FVH (80°-90°)	15.9	0.1			G1/100
BL (0°-30°)	1048.9	4.4	B3/2500		
BM (30°-60°)	2002.5	8.4	B2/2500		
BH (60°-80°)	263.3	1.1	B1/500		G1/500
BVH (80°-90°)	18.6	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-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2472.3	2472.3	2472.3	2472.3	2472.3	2472.3	2472.3	2472.3	2472.3	2472.3	2472.3
2.5°	3237.5	3213.9	3162.9	3068.7	3029.5	2935.3	2880.4	2774.4	2707.7	2633.1	2550.7
5°	4559.9	4438.3	4363.7	4257.8	3947.8	3755.5	3437.6	3166.8	3041.3	2903.9	2715.6
7.5°	5925.6	5847.1	5745.0	5517.4	5305.5	4905.3	4359.8	3763.3	3508.2	3272.8	2900.0
10°	7055.7	6836.0	6824.2	6655.5	6423.9	5945.2	5289.8	4548.2	4093.0	3747.6	3162.9
12.5°	7844.5	7644.4	7734.6	7715.0	7499.2	7059.7	6302.3	5321.2	4846.4	4308.8	3433.7
15°	8562.6	8480.2	8452.8	8429.2	8342.9	8017.2	7338.3	6263.0	5576.3	4928.8	3739.8
17.5°	9265.1	9053.2	9155.2	9174.8	9167.0	8872.6	8236.9	7157.8	6349.4	5584.2	4061.6
20°	9889.0	9908.6	9771.3	9743.8	9720.3	9708.5	9088.5	8044.6	7299.0	6270.9	4481.5
22.5°	10689.6	10552.2	10673.9	10595.4	10442.3	10348.2	9873.3	8829.5	8123.1	7098.9	4909.2
25°	11635.3	11745.2	11458.7	11427.3	11258.6	10932.9	10505.1	9708.5	8915.8	7868.0	5372.2
27.5°	12800.8	12608.5	12533.9	12361.3	12055.2	11917.8	11415.5	10615.0	9873.3	8676.4	5819.6
30°	13801.5	13750.4	13377.6	13173.6	12906.7	12902.8	12200.4	11843.3	11121.2	9944.0	6435.7
32.5°	14617.7	14394.0	14256.7	14115.4	13899.6	13958.4	13365.9	13177.5	12451.5	11121.2	7161.7
35°	15163.2	15002.3	14919.9	14704.0	14641.2	14904.2	14656.9	14578.5	13982.0	12777.2	8013.2
37.5°	15335.8	15386.8	15371.1	15100.4	15233.8	15944.1	16261.9	16057.9	15743.9	14523.5	8935.4
40°	15488.9	15524.2	15445.7	15763.6	16144.2	16952.6	18102.4	17764.9	17647.2	16293.3	10218.7
42.5°	15575.2	15547.7	15547.7	16097.1	16674.0	18298.6	19880.1	19656.4	19566.1	18177.0	11702.0
45°	15202.4	14935.6	15222.0	15967.6	17129.2	18961.8	21300.6	21610.6	21481.1	20417.7	13436.5
47.5°	13809.3	13974.1	14135.0	15131.8	16575.9	18757.7	22171.8	23227.4	23466.8	22301.3	14574.5
50°	11702.0	11666.7	12000.2	13256.0	15010.1	17878.7	22003.1	23694.4	24130.0	22866.4	14813.9
52.5°	8511.6	8770.6	9131.6	10379.5	12459.4	15602.7	19825.1	22489.7	23070.5	22171.8	14656.9
55°	4956.3	4669.8	5482.1	6537.7	8499.8	11768.7	16760.3	19935.0	21010.2	20908.2	13864.2
57.5°	1985.7	1922.9	2201.5	2966.7	4434.4	7295.1	12188.6	16379.7	18102.4	19150.2	12184.7
60°	871.2	851.6	1000.7	1208.7	1813.0	3363.1	6667.2	10187.3	11984.5	13381.6	8386.0
62.5°	627.9	620.0	694.6	769.1	957.5	1463.7	2801.9	4104.7	5117.2	6180.6	3755.5
65°	506.2	525.8	576.9	616.1	706.4	812.3	988.9	1141.9	1400.9	1452.0	828.0
67.5°	412.0	427.7	474.8	518.0	533.7	439.5	455.2	400.3	400.3	357.1	286.5
70°	302.2	306.1	361.0	412.0	329.6	176.6	310.0	310.0	278.6	266.8	243.3
72.5°	223.7	227.6	270.8	255.1	129.5	109.9	227.6	251.1	227.6	215.8	196.2
75°	164.8	168.7	141.3	58.9	54.9	70.6	133.4	172.7	164.8	160.9	149.1
77.5°	31.4	23.5	19.6	27.5	39.2	58.9	86.3	106.0	109.9	117.7	109.9
80°	3.9	3.9	11.8	23.5	43.2	62.8	90.3	102.0	106.0	109.9	102.0
82.5°	0.0	3.9	11.8	23.5	43.2	58.9	78.5	90.3	98.1	102.0	98.1
85°	0.0	3.9	7.8	19.6	35.3	43.2	39.2	27.5	23.5	27.5	19.6
87.5°	0.0	0.0	3.9	3.9	7.8	7.8	7.8	7.8	7.8	7.8	7.8
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°	2472.3	2472.3	2472.3	2472.3	2472.3	2472.3	2472.3	2472.3	2472.3	2472.3	2472.3
2.5°	2503.6	2488.0	2433.0	2374.1	2323.1	2346.7	2323.1	2303.5	2311.4	2303.5	2295.7
5°	2641.0	2570.4	2452.6	2401.6	2358.5	2354.5	2342.8	2338.8	2342.8	2342.8	2307.4
7.5°	2770.5	2656.7	2531.1	2476.2	2425.2	2429.1	2401.6	2401.6	2397.7	2378.1	2370.2
10°	2966.7	2813.7	2652.8	2554.7	2491.9	2480.1	2452.6	2425.2	2425.2	2425.2	2385.9
12.5°	3182.5	2990.3	2770.5	2656.7	2582.1	2523.3	2480.1	2472.3	2429.1	2421.2	2401.6
15°	3370.9	3127.6	2849.0	2692.0	2597.8	2519.3	2452.6	2409.5	2389.8	2378.1	2362.4
17.5°	3555.3	3245.3	2892.1	2692.0	2590.0	2499.7	2429.1	2389.8	2342.8	2350.6	2319.2
20°	3802.6	3370.9	2903.9	2641.0	2515.4	2429.1	2334.9	2315.3	2287.8	2264.3	2272.1
22.5°	4041.9	3461.2	2868.6	2578.2	2397.7	2295.7	2248.6	2225.0	2213.3	2193.6	2166.2
25°	4257.8	3559.3	2813.7	2464.4	2272.1	2197.6	2154.4	2150.5	2123.0	2123.0	2072.0
27.5°	4477.5	3594.6	2719.5	2331.0	2162.2	2119.1	2099.5	2091.6	2079.8	2052.4	2017.0
30°	4728.7	3606.4	2582.1	2193.6	2064.1	2017.0	2044.5	2064.1	2013.1	1962.1	1977.8
32.5°	4936.7	3578.9	2417.3	2064.1	1993.5	1970.0	2024.9	2044.5	1985.7	1930.7	1903.2
35°	5187.8	3512.2	2256.4	1962.1	1922.9	1970.0	2017.0	2017.0	1899.3	1832.6	1816.9
37.5°	5568.5	3437.6	2107.3	1875.8	1848.3	1946.4	2009.2	1966.0	1781.6	1699.2	1679.6
40°	5976.6	3390.5	1962.1	1789.4	1809.1	1907.2	1942.5	1809.1	1620.7	1569.7	1554.0
42.5°	6569.1	3296.3	1832.6	1714.9	1773.7	1852.2	1852.2	1612.9	1542.2	1514.7	1510.8
45°	7306.9	3229.6	1718.8	1652.1	1722.7	1742.4	1679.6	1510.8	1459.8	1452.0	1455.9
47.5°	7667.9	3100.1	1601.1	1577.5	1628.5	1632.5	1467.7	1428.4	1385.2	1373.5	1365.6
50°	7613.0	2868.6	1448.0	1479.4	1550.1	1510.8	1338.2	1346.0	1306.8	1302.8	1283.2
52.5°	7228.4	2503.6	1295.0	1369.6	1448.0	1334.2	1232.2	1224.4	1224.4	1173.3	1153.7
55°	6408.2	2017.0	1110.6	1204.7	1298.9	1122.3	1094.9	1087.0	1067.4	1020.3	1008.5
57.5°	5074.0	1479.4	835.9	937.9	1102.7	953.6	949.7	914.3	863.3	828.0	828.0
60°	3017.7	851.6	525.8	572.9	729.9	773.1	859.4	843.7	757.4	702.4	686.7
62.5°	1377.4	439.5	333.6	341.4	392.4	502.3	675.0	780.9	659.3	565.1	557.2
65°	463.1	325.7	274.7	262.9	270.8	302.2	404.2	553.3	525.8	435.6	419.9
67.5°	282.5	290.4	259.0	239.4	239.4	235.5	231.5	251.1	310.0	302.2	306.1
70°	243.3	266.8	239.4	215.8	208.0	196.2	164.8	137.3	117.7	137.3	145.2
72.5°	196.2	211.9	204.1	184.4	164.8	149.1	117.7	90.3	66.7	58.9	58.9
75°	145.2	157.0	164.8	141.3	125.6	106.0	86.3	58.9	35.3	23.5	23.5
77.5°	106.0	117.7	121.7	109.9	94.2	74.6	54.9	39.2	19.6	7.8	7.8
80°	90.3	106.0	117.7	109.9	98.1	70.6	51.0	27.5	15.7	3.9	3.9
82.5°	86.3	106.0	117.7	106.0	94.2	66.7	51.0	31.4	11.8	3.9	3.9
85°	19.6	27.5	35.3	43.2	51.0	51.0	39.2	23.5	11.8	3.9	3.9
87.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	3.9	3.9	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)