

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: P531257

Luminaire Tested: **GALN-SA6C-735-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531257
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-SA6C-735-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1050mA 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: 25685 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

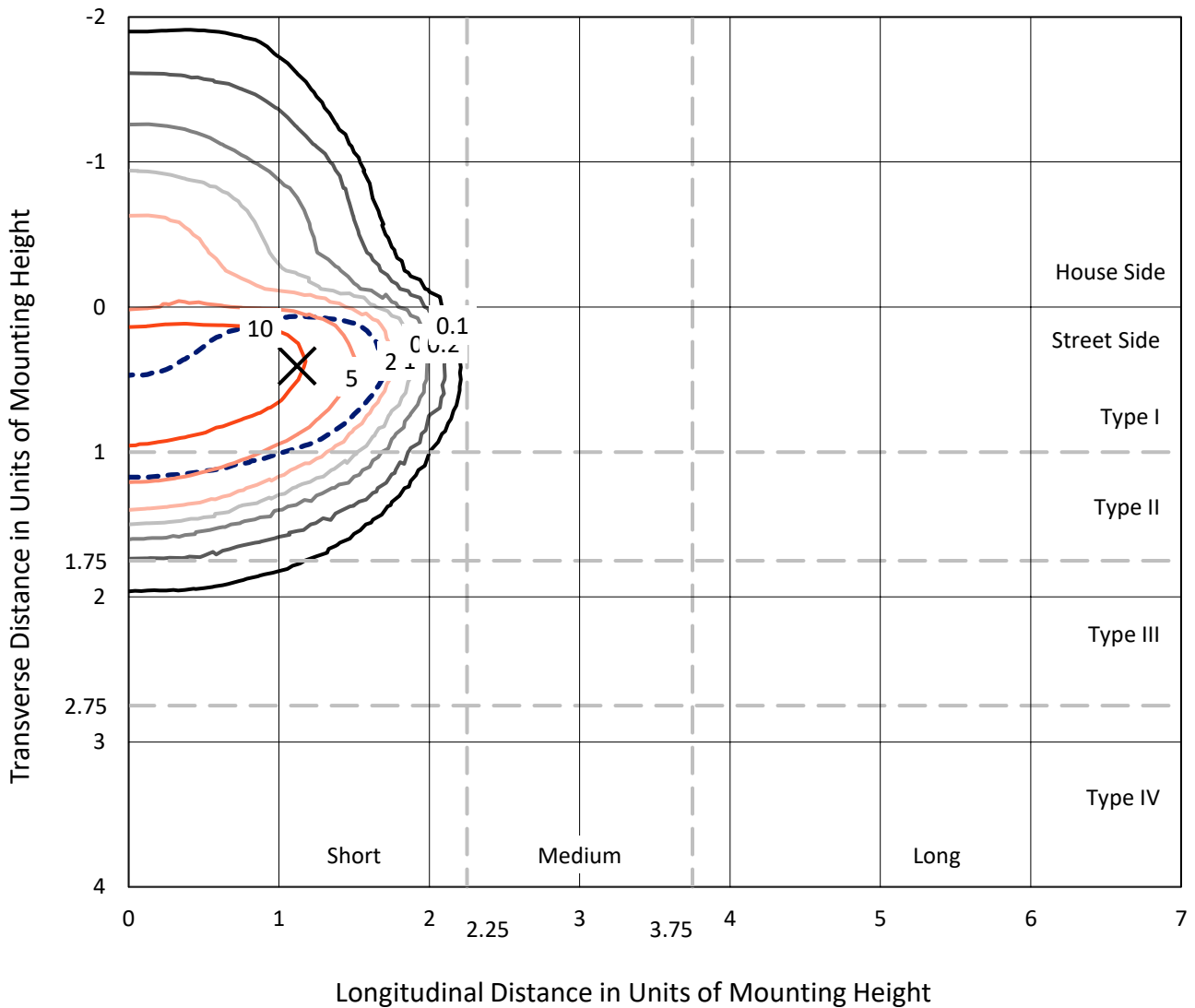
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

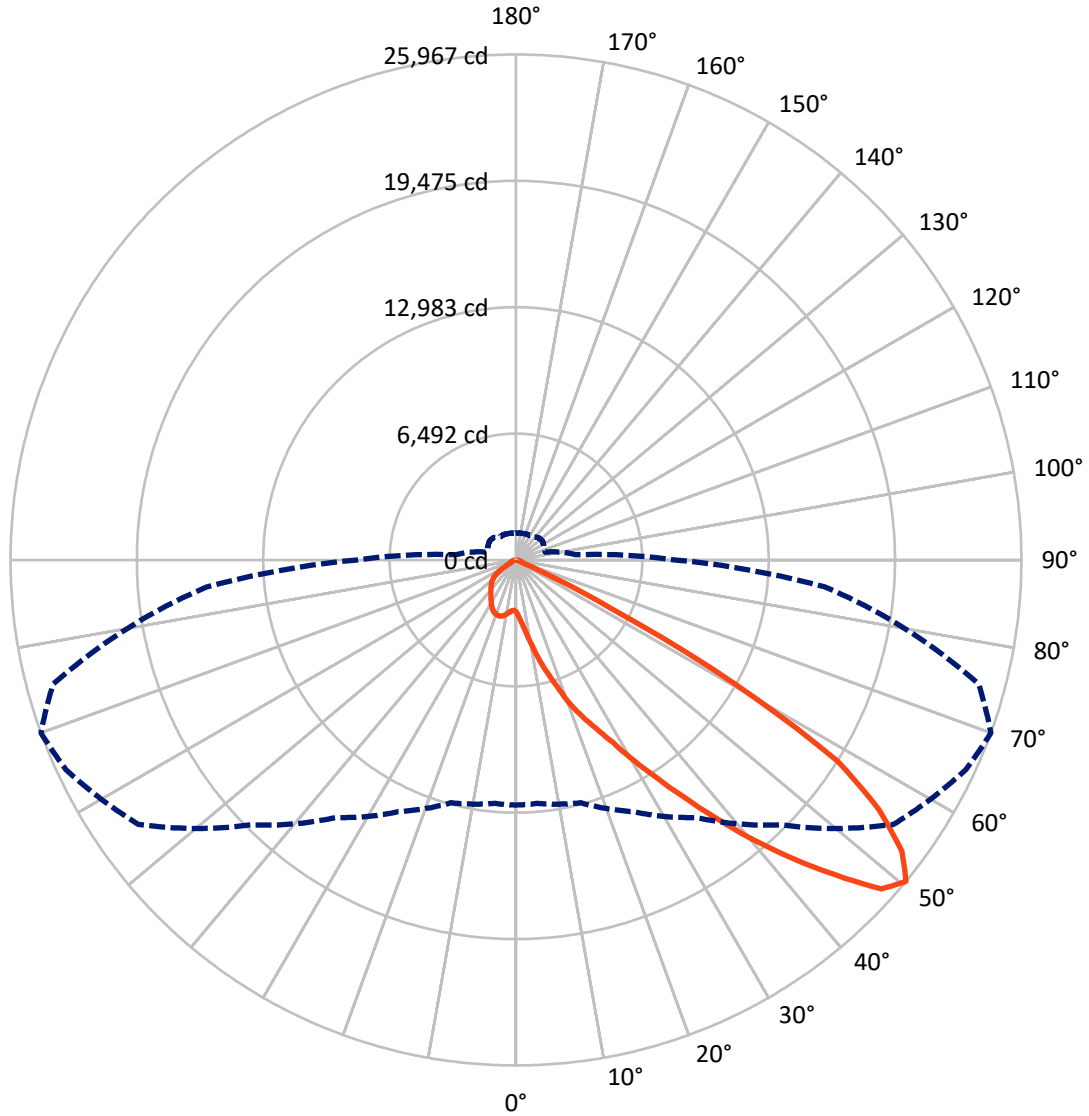
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 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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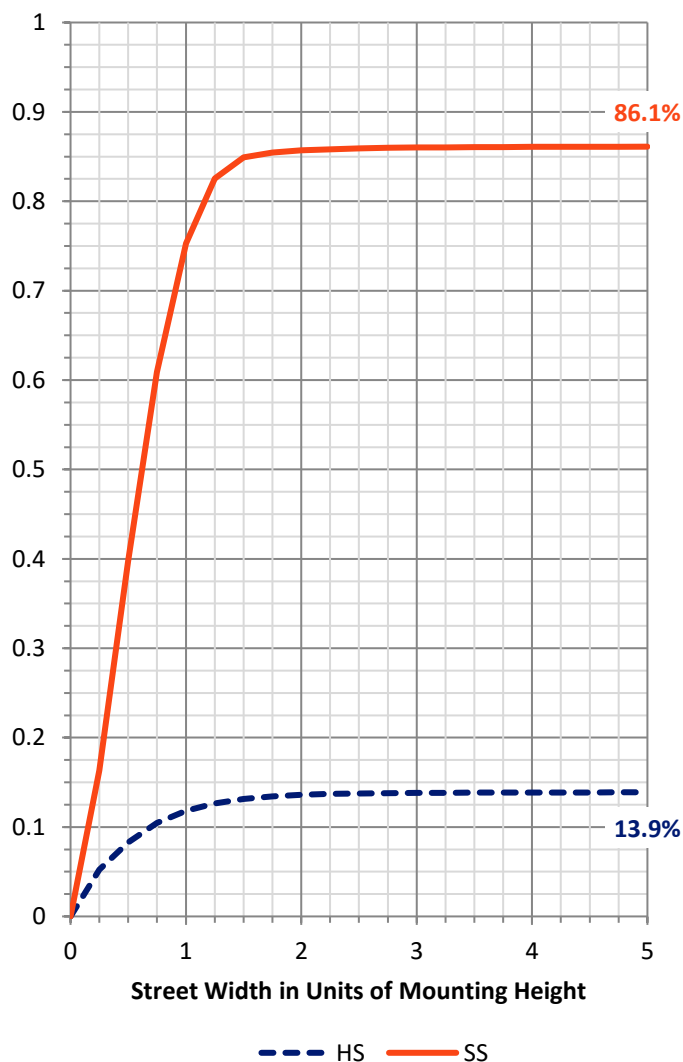
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3587.1	0.0	3587.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	22097.9	0.0	22097.9
	% Fixture	86.0	0.0	86.0
Total	Lumens	25685.0	0.0	25685.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.0	1.3
10°-20°	1496.5	5.8
20°-30°	3139.4	12.2
30°-40°	5411.2	21.1
40°-50°	7908.5	30.8
50°-60°	6159.4	24.0
60°-70°	1043.6	4.1
70°-80°	143.4	0.6
80°-90°	37.1	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°	25685.0	100.0
0°-180°	25685.0	100.0

Coefficient of Utilization



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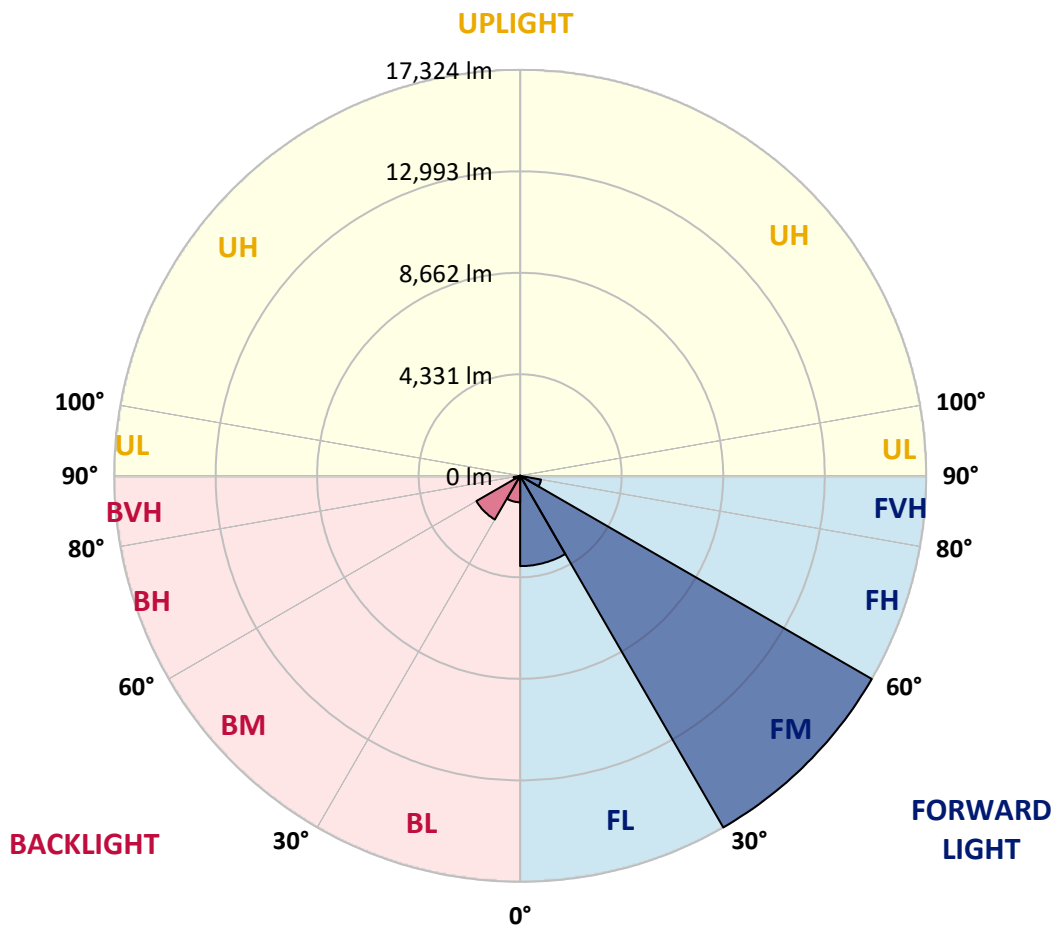
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3853.1	15.0			
FM (30°-60°)	17324.1	67.4			
FH (60°-80°)	903.6	3.5			G1/1800
FVH (80°-90°)	17.2	0.1			G1/100
BL (0°-30°)	1128.8	4.4	B3/2500		
BM (30°-60°)	2155.0	8.4	B2/2500		
BH (60°-80°)	283.3	1.1	B1/500		G1/500
BVH (80°-90°)	20.0	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°	2660.5	2660.5	2660.5	2660.5	2660.5	2660.5	2660.5	2660.5	2660.5	2660.5	2660.5
2.5°	3483.9	3458.6	3403.7	3302.3	3260.1	3158.8	3099.6	2985.6	2913.8	2833.6	2744.9
5°	4907.1	4776.2	4695.9	4581.9	4248.3	4041.4	3699.3	3407.9	3272.8	3125.0	2922.3
7.5°	6376.7	6292.2	6182.4	5937.5	5709.4	5278.7	4691.7	4049.8	3775.3	3521.9	3120.8
10°	7592.9	7356.4	7343.7	7162.1	6913.0	6397.8	5692.5	4894.4	4404.5	4032.9	3403.7
12.5°	8441.7	8226.3	8323.4	8302.3	8070.1	7597.1	6782.1	5726.3	5215.3	4636.8	3695.1
15°	9214.5	9125.8	9096.2	9070.9	8978.0	8627.5	7896.9	6739.8	6000.8	5304.0	4024.5
17.5°	9970.4	9742.4	9852.1	9873.3	9864.8	9548.1	8864.0	7702.7	6832.7	6009.3	4370.8
20°	10641.8	10663.0	10515.2	10485.6	10460.3	10447.6	9780.4	8657.1	7854.7	6748.3	4822.6
22.5°	11503.3	11355.5	11486.4	11402.0	11237.3	11135.9	10624.9	9501.6	8741.5	7639.3	5282.9
25°	12521.1	12639.3	12331.0	12297.2	12115.7	11765.1	11304.8	10447.6	9594.5	8467.0	5781.2
27.5°	13775.3	13568.3	13488.1	13302.3	12972.9	12825.1	12284.6	11423.1	10624.9	9336.9	6262.6
30°	14852.1	14797.2	14396.0	14176.5	13889.3	13885.1	13129.2	12744.9	11967.8	10701.0	6925.6
32.5°	15730.5	15489.8	15342.0	15190.0	14957.7	15021.0	14383.4	14180.7	13399.4	11967.8	7706.9
35°	16317.5	16144.3	16055.7	15823.4	15755.8	16038.8	15772.7	15688.3	15046.4	13749.9	8623.3
37.5°	16503.3	16558.2	16541.3	16249.9	16393.5	17157.9	17499.9	17280.3	16942.5	15629.1	9615.7
40°	16668.0	16706.0	16621.5	16963.6	17373.2	18243.2	19480.5	19117.3	18990.6	17533.7	10996.6
42.5°	16760.9	16731.3	16731.3	17322.6	17943.3	19691.6	21393.5	21152.8	21055.6	19560.7	12592.8
45°	16359.7	16072.6	16380.8	17183.2	18433.2	20405.3	22922.2	23255.8	23116.4	21972.0	14459.4
47.5°	14860.6	15037.9	15211.1	16283.7	17837.8	20185.7	23859.7	24995.7	25253.3	23999.0	15684.0
50°	12592.8	12554.8	12913.8	14265.1	16152.8	19239.8	23678.1	25498.2	25966.9	24607.1	15941.6
52.5°	9159.6	9438.3	9826.8	11169.7	13407.9	16790.5	21334.4	24201.7	24826.7	23859.7	15772.7
55°	5333.6	5025.3	5899.5	7035.4	9146.9	12664.6	18036.2	21452.6	22609.7	22499.9	14919.7
57.5°	2136.8	2069.2	2369.1	3192.6	4771.9	7850.5	13116.5	17626.6	19480.5	20608.0	13112.3
60°	937.5	916.4	1076.9	1300.7	1951.0	3619.1	7174.8	10962.8	12896.9	14400.3	9024.4
62.5°	675.7	667.2	747.5	827.7	1030.4	1575.2	3015.2	4417.2	5506.7	6651.2	4041.4
65°	544.8	565.9	620.8	663.0	760.1	874.2	1064.2	1228.9	1507.6	1562.5	891.0
67.5°	443.4	460.3	511.0	557.4	574.3	473.0	489.9	430.7	430.7	384.3	308.3
70°	325.2	329.4	388.5	443.4	354.7	190.0	333.6	333.6	299.8	287.2	261.8
72.5°	240.7	244.9	291.4	274.5	139.4	118.2	244.9	270.3	244.9	232.3	211.1
75°	177.4	181.6	152.0	63.3	59.1	76.0	143.6	185.8	177.4	173.1	160.5
77.5°	33.8	25.3	21.1	29.6	42.2	63.3	92.9	114.0	118.2	126.7	118.2
80°	4.2	4.2	12.7	25.3	46.5	67.6	97.1	109.8	114.0	118.2	109.8
82.5°	0.0	4.2	12.7	25.3	46.5	63.3	84.5	97.1	105.6	109.8	105.6
85°	0.0	4.2	8.4	21.1	38.0	46.5	42.2	29.6	25.3	29.6	21.1
87.5°	0.0	0.0	4.2	4.2	8.4	8.4	8.4	8.4	8.4	8.4	8.4
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°	2660.5	2660.5	2660.5	2660.5	2660.5	2660.5	2660.5	2660.5	2660.5	2660.5	2660.5
2.5°	2694.2	2677.4	2618.2	2554.9	2500.0	2525.3	2500.0	2478.9	2487.3	2478.9	2470.4
5°	2842.0	2766.0	2639.3	2584.4	2538.0	2533.8	2521.1	2516.9	2521.1	2521.1	2483.1
7.5°	2981.4	2858.9	2723.8	2664.7	2609.8	2614.0	2584.4	2584.4	2580.2	2559.1	2550.7
10°	3192.6	3027.9	2854.7	2749.1	2681.6	2668.9	2639.3	2609.8	2609.8	2609.8	2567.6
12.5°	3424.8	3217.9	2981.4	2858.9	2778.7	2715.4	2668.9	2660.5	2614.0	2605.6	2584.4
15°	3627.5	3365.7	3065.9	2896.9	2795.6	2711.1	2639.3	2592.9	2571.8	2559.1	2542.2
17.5°	3826.0	3492.4	3112.3	2896.9	2787.1	2690.0	2614.0	2571.8	2521.1	2529.5	2495.8
20°	4092.0	3627.5	3125.0	2842.0	2706.9	2614.0	2512.7	2491.5	2462.0	2436.6	2445.1
22.5°	4349.6	3724.6	3087.0	2774.5	2580.2	2470.4	2419.8	2394.4	2381.7	2360.6	2331.1
25°	4581.9	3830.2	3027.9	2652.0	2445.1	2364.9	2318.4	2314.2	2284.6	2284.6	2229.7
27.5°	4818.4	3868.2	2926.5	2508.4	2326.8	2280.4	2259.3	2250.8	2238.2	2208.6	2170.6
30°	5088.7	3880.9	2778.7	2360.6	2221.3	2170.6	2200.2	2221.3	2166.4	2111.5	2128.4
32.5°	5312.5	3851.3	2601.3	2221.3	2145.3	2119.9	2179.0	2200.2	2136.8	2077.7	2048.1
35°	5582.7	3779.5	2428.2	2111.5	2069.2	2119.9	2170.6	2170.6	2043.9	1972.1	1955.2
37.5°	5992.4	3699.3	2267.7	2018.6	1989.0	2094.6	2162.2	2115.7	1917.2	1828.5	1807.4
40°	6431.6	3648.6	2111.5	1925.7	1946.8	2052.4	2090.4	1946.8	1744.1	1689.2	1672.3
42.5°	7069.2	3547.3	1972.1	1845.4	1908.8	1993.2	1993.2	1735.6	1659.6	1630.1	1625.8
45°	7863.1	3475.5	1849.7	1777.9	1853.9	1875.0	1807.4	1625.8	1570.9	1562.5	1566.7
47.5°	8251.6	3336.1	1723.0	1697.6	1752.5	1756.7	1579.4	1537.2	1490.7	1478.0	1469.6
50°	8192.5	3087.0	1558.3	1592.1	1668.1	1625.8	1440.0	1448.5	1406.2	1402.0	1380.9
52.5°	7778.7	2694.2	1393.6	1473.8	1558.3	1435.8	1326.0	1317.6	1317.6	1262.7	1241.5
55°	6896.1	2170.6	1195.1	1296.4	1397.8	1207.8	1178.2	1169.8	1148.6	1098.0	1085.3
57.5°	5460.3	1592.1	899.5	1009.3	1186.6	1026.2	1022.0	983.9	929.0	891.0	891.0
60°	3247.5	916.4	565.9	616.6	785.5	831.9	924.8	907.9	815.0	755.9	739.0
62.5°	1482.3	473.0	359.0	367.4	422.3	540.5	726.3	840.4	709.5	608.1	599.7
65°	498.3	350.5	295.6	282.9	291.4	325.2	435.0	595.4	565.9	468.7	451.9
67.5°	304.1	312.5	278.7	257.6	257.6	253.4	249.2	270.3	333.6	325.2	329.4
70°	261.8	287.2	257.6	232.3	223.8	211.1	177.4	147.8	126.7	147.8	156.2
72.5°	211.1	228.0	219.6	198.5	177.4	160.5	126.7	97.1	71.8	63.3	63.3
75°	156.2	168.9	177.4	152.0	135.1	114.0	92.9	63.3	38.0	25.3	25.3
77.5°	114.0	126.7	130.9	118.2	101.4	80.2	59.1	42.2	21.1	8.4	8.4
80°	97.1	114.0	126.7	118.2	105.6	76.0	54.9	29.6	16.9	4.2	4.2
82.5°	92.9	114.0	126.7	114.0	101.4	71.8	54.9	33.8	12.7	4.2	4.2
85°	21.1	29.6	38.0	46.5	54.9	54.9	42.2	25.3	12.7	4.2	4.2
87.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	4.2	4.2	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)