

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: P647016

Luminaire Tested: **GALN-SA6C-835-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647016
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-835-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 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: 21588.9 lumens
Efficiency: N/A
Efficacy: 67.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

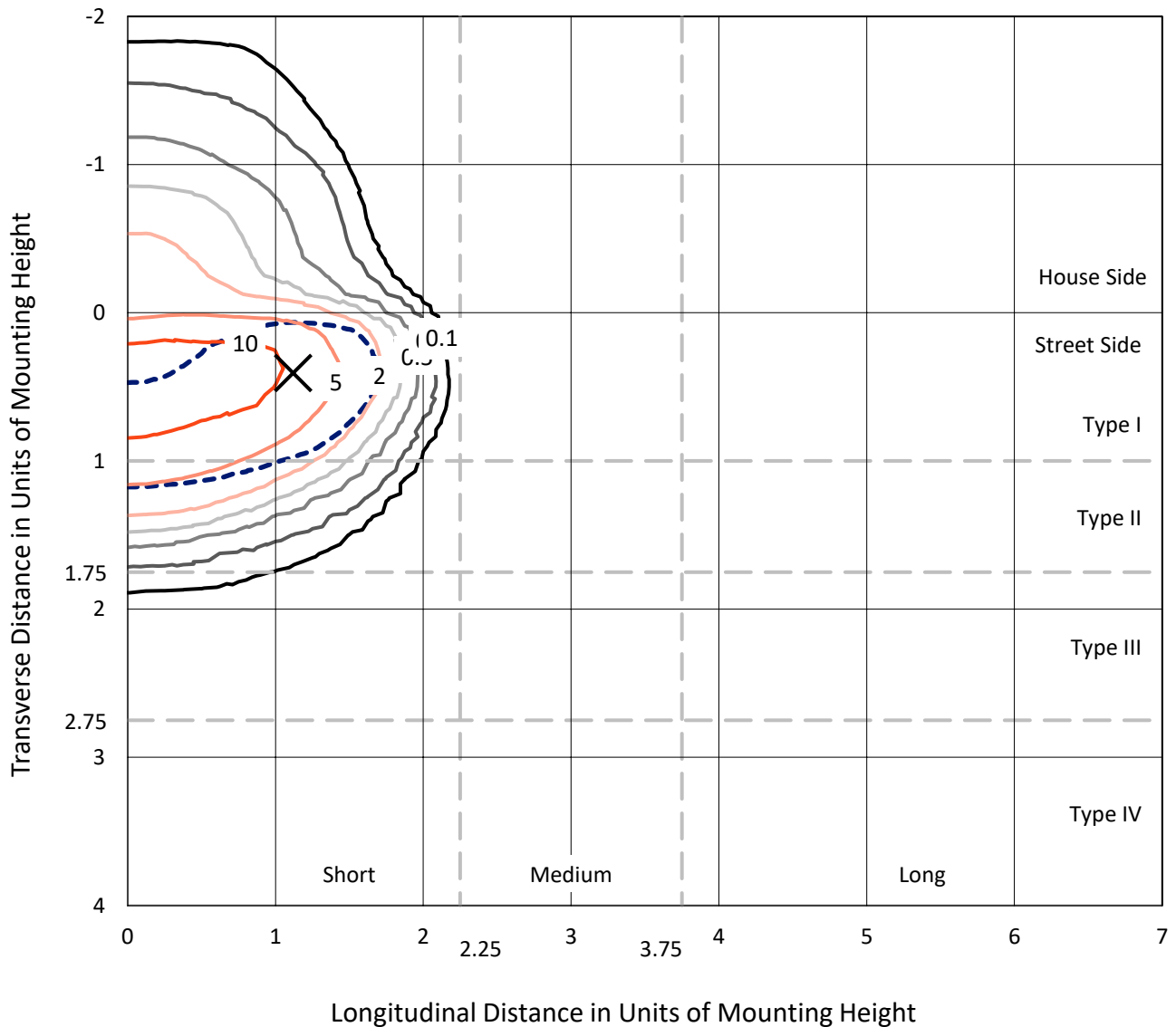
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

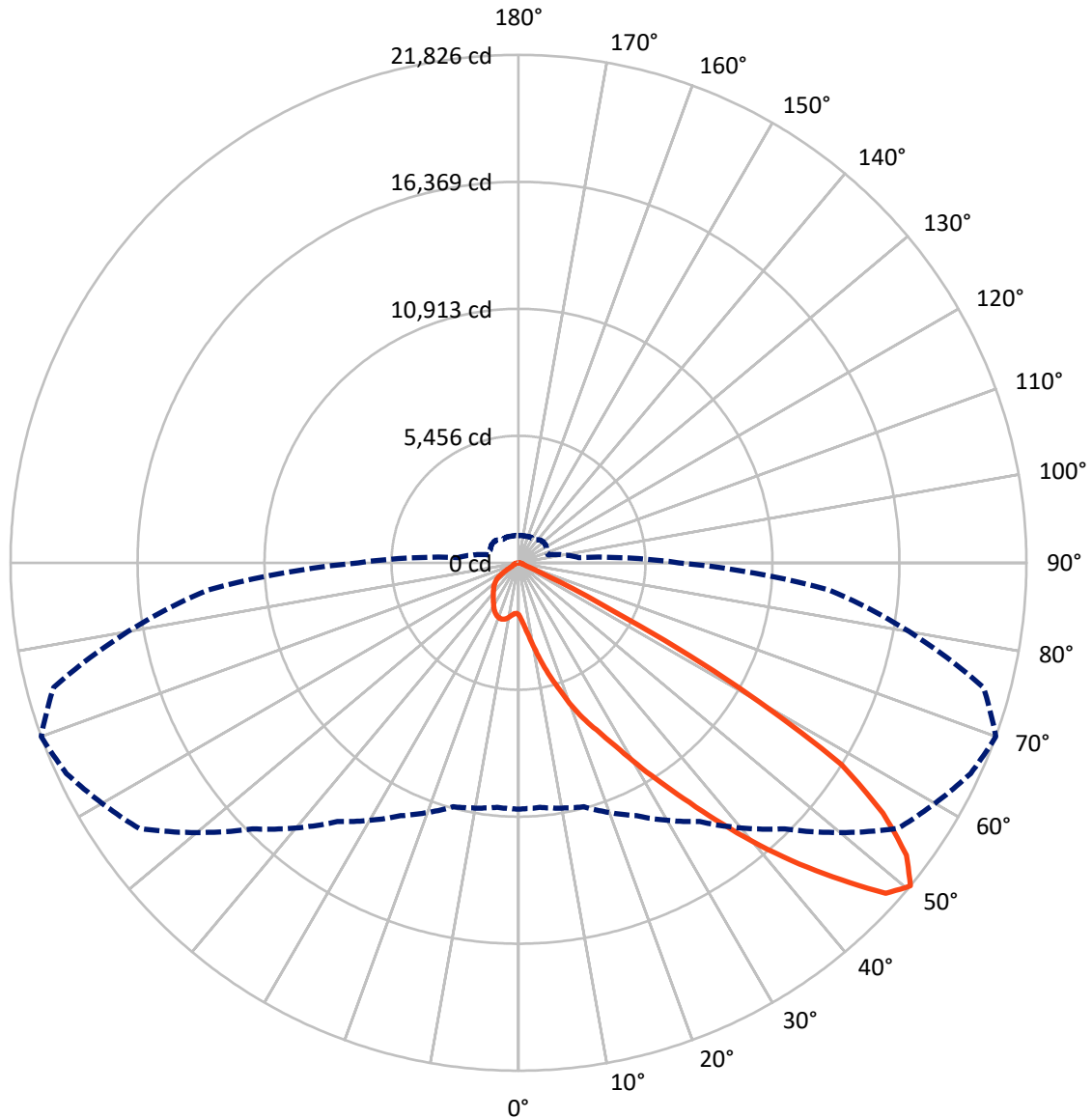
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 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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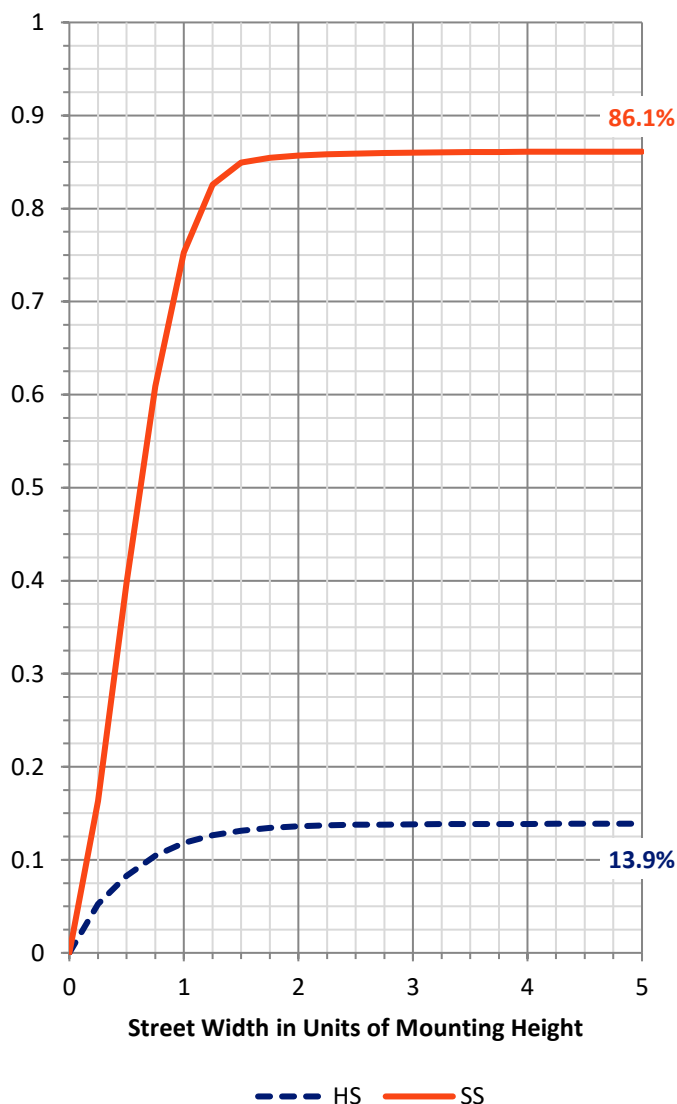
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3015.0	0.0	3015.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	18573.8	0.0	18573.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	21588.9	0.0	21588.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.8	1.3
10°-20°	1257.8	5.8
20°-30°	2638.7	12.2
30°-40°	4548.3	21.1
40°-50°	6647.3	30.8
50°-60°	5177.1	24.0
60°-70°	877.2	4.1
70°-80°	120.5	0.6
80°-90°	31.2	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°	21588.9	100.0
0°-180°	21588.9	100.0

Coefficient of Utilization



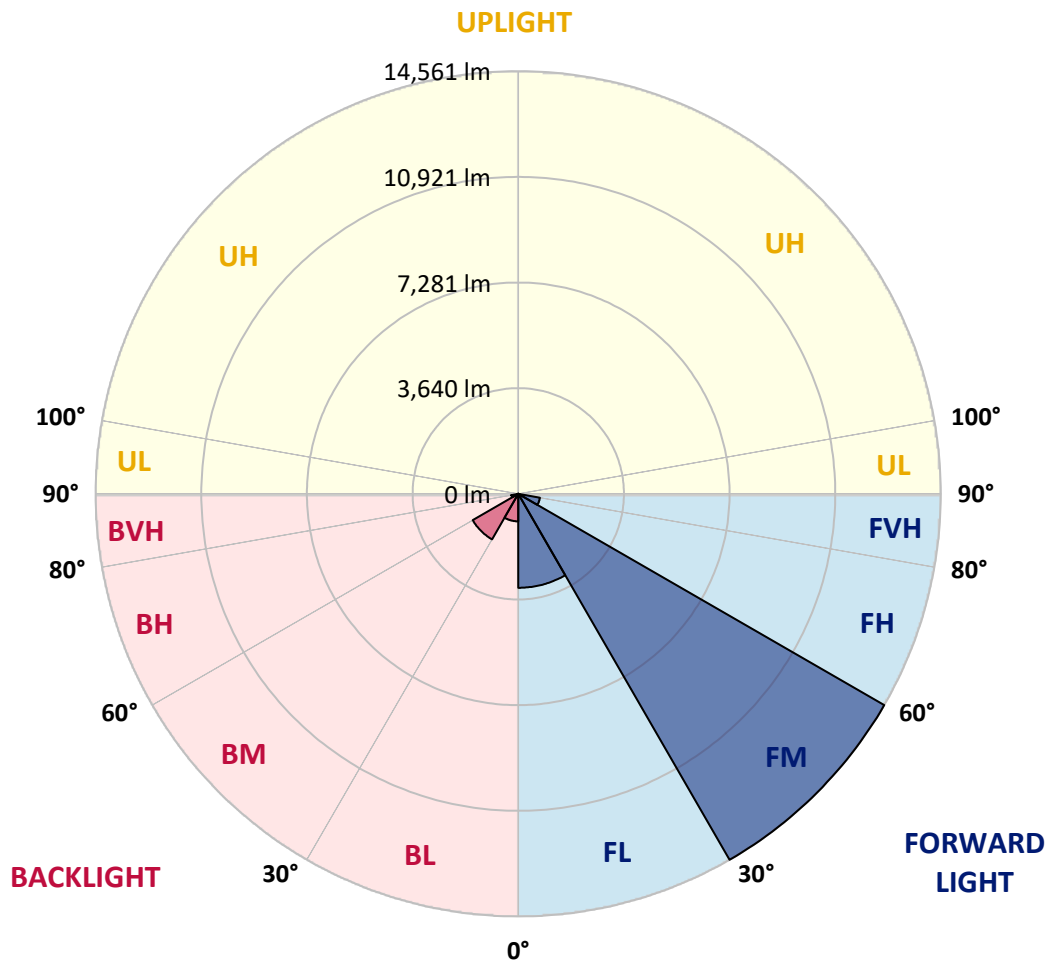
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3238.6	15.0			
FM (30°-60°)	14561.3	67.4			
FH (60°-80°)	759.5	3.5			G1/1800
FVH (80°-90°)	14.4	0.1			G1/100
BL (0°-30°)	948.8	4.4	B2/1000		
BM (30°-60°)	1811.3	8.4	B2/2500		
BH (60°-80°)	238.2	1.1	B1/500		G1/500
BVH (80°-90°)	16.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2236.2	2236.2	2236.2	2236.2	2236.2	2236.2	2236.2	2236.2	2236.2	2236.2	2236.2
2.5°	2928.3	2907.0	2860.9	2775.7	2740.2	2655.0	2605.4	2509.5	2449.1	2381.7	2307.2
5°	4124.5	4014.4	3947.0	3851.2	3570.8	3396.9	3109.4	2864.4	2750.8	2626.7	2456.3
7.5°	5359.7	5288.8	5196.5	4990.6	4798.9	4436.9	3943.5	3403.9	3173.3	2960.3	2623.0
10°	6382.0	6183.2	6172.5	6019.9	5810.5	5377.5	4784.8	4113.9	3702.1	3389.8	2860.9
12.5°	7095.5	6914.4	6996.0	6978.3	6783.1	6385.5	5700.5	4813.1	4383.6	3897.4	3105.8
15°	7745.0	7670.4	7645.6	7624.3	7546.2	7251.6	6637.6	5665.0	5043.9	4458.2	3382.6
17.5°	8380.4	8188.7	8281.0	8298.7	8291.7	8025.4	7450.4	6474.3	5743.1	5050.9	3673.8
20°	8944.8	8962.5	8838.3	8813.4	8792.1	8781.4	8220.6	7276.5	6602.1	5672.1	4053.5
22.5°	9668.8	9544.6	9654.6	9583.6	9445.2	9360.0	8930.5	7986.4	7347.4	6421.1	4440.4
25°	10524.2	10623.7	10364.5	10336.1	10183.5	9888.9	9502.0	8781.4	8064.4	7116.8	4859.3
27.5°	11578.5	11404.6	11337.1	11180.9	10904.1	10779.8	10325.5	9601.4	8930.5	7847.9	5263.9
30°	12483.6	12437.4	12100.2	11915.7	11674.3	11670.8	11035.4	10712.4	10059.3	8994.4	5821.1
32.5°	13221.9	13019.6	12895.3	12767.5	12572.3	12625.6	12089.6	11919.2	11262.5	10059.3	6477.8
35°	13715.3	13569.7	13495.2	13300.0	13243.2	13481.0	13257.4	13186.3	12646.9	11557.2	7248.1
37.5°	13871.4	13917.6	13903.3	13658.5	13779.2	14421.6	14709.1	14524.6	14240.6	13136.7	8082.2
40°	14009.8	14041.8	13970.8	14258.4	14602.6	15333.8	16373.9	16068.6	15962.1	14737.5	9242.9
42.5°	14088.0	14063.1	14063.1	14560.0	15081.8	16551.3	17981.8	17779.4	17697.8	16441.3	10584.6
45°	13750.7	13509.4	13768.5	14442.9	15493.5	17151.1	19266.7	19547.0	19429.9	18468.0	12153.5
47.5°	12490.7	12639.7	12785.3	13686.8	14993.0	16966.6	20054.7	21009.5	21226.0	20171.8	13182.8
50°	10584.6	10552.6	10854.3	11990.2	13576.8	16171.5	19902.1	21431.9	21825.8	20682.9	13399.3
52.5°	7698.8	7933.1	8259.7	9388.4	11269.6	14112.8	17932.0	20342.2	20867.5	20054.7	13257.4
55°	4483.0	4223.9	4958.7	5913.5	7688.2	10645.0	15159.9	18031.5	19004.0	18911.7	12540.4
57.5°	1796.0	1739.3	1991.2	2683.4	4010.9	6598.5	11024.7	14815.6	16373.9	17321.5	11021.2
60°	788.0	770.2	905.1	1093.2	1639.8	3042.0	6030.6	9214.5	10840.2	12103.8	7585.2
62.5°	567.9	560.8	628.3	695.7	866.1	1324.0	2534.3	3712.8	4628.5	5590.5	3396.9
65°	457.9	475.6	521.8	557.3	638.9	734.8	894.5	1032.9	1267.2	1313.3	748.9
67.5°	372.7	386.9	429.5	468.5	482.7	397.5	411.8	362.1	362.1	323.0	259.1
70°	273.3	276.9	326.6	372.7	298.2	159.7	280.4	280.4	252.0	241.4	220.1
72.5°	202.3	205.9	244.9	230.8	117.1	99.4	205.9	227.1	205.9	195.2	177.5
75°	149.1	152.6	127.8	53.2	49.7	63.9	120.7	156.2	149.1	145.6	134.9
77.5°	28.4	21.3	17.8	24.8	35.5	53.2	78.1	95.8	99.4	106.5	99.4
80°	3.5	3.5	10.6	21.3	39.1	56.8	81.7	92.3	95.8	99.4	92.3
82.5°	0.0	3.5	10.6	21.3	39.1	53.2	71.0	81.7	88.7	92.3	88.7
85°	0.0	3.5	7.1	17.8	31.9	39.1	35.5	24.8	21.3	24.8	17.8
87.5°	0.0	0.0	3.5	3.5	7.1	7.1	7.1	7.1	7.1	7.1	7.1
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°	2236.2	2236.2	2236.2	2236.2	2236.2	2236.2	2236.2	2236.2	2236.2	2236.2	2236.2
2.5°	2264.6	2250.3	2200.7	2147.5	2101.3	2122.6	2101.3	2083.6	2090.7	2083.6	2076.4
5°	2388.8	2324.9	2218.5	2172.3	2133.3	2129.7	2119.0	2115.5	2119.0	2119.0	2087.1
7.5°	2505.9	2403.0	2289.4	2239.7	2193.6	2197.2	2172.3	2172.3	2168.8	2151.0	2143.9
10°	2683.4	2545.0	2399.4	2310.7	2253.9	2243.3	2218.5	2193.6	2193.6	2193.6	2158.1
12.5°	2878.6	2704.7	2505.9	2403.0	2335.5	2282.3	2243.3	2236.2	2197.2	2190.1	2172.3
15°	3049.0	2829.0	2576.9	2435.0	2349.8	2278.8	2218.5	2179.4	2161.6	2151.0	2136.8
17.5°	3215.9	2935.5	2616.0	2435.0	2342.7	2261.0	2197.2	2161.6	2119.0	2126.2	2097.7
20°	3439.5	3049.0	2626.7	2388.8	2275.2	2197.2	2112.0	2094.2	2069.4	2048.1	2055.1
22.5°	3656.0	3130.7	2594.7	2332.0	2168.8	2076.4	2033.8	2012.5	2001.9	1984.2	1959.3
25°	3851.2	3219.4	2545.0	2229.0	2055.1	1987.7	1948.7	1945.1	1920.3	1920.3	1874.1
27.5°	4050.0	3251.3	2459.8	2108.4	1955.8	1916.7	1899.0	1891.9	1881.2	1856.4	1824.5
30°	4277.1	3262.0	2335.5	1984.2	1867.1	1824.5	1849.3	1867.1	1820.9	1774.7	1788.9
32.5°	4465.3	3237.2	2186.5	1867.1	1803.2	1781.9	1831.5	1849.3	1796.0	1746.3	1721.5
35°	4692.4	3176.8	2041.0	1774.7	1739.3	1781.9	1824.5	1824.5	1718.0	1657.6	1643.4
37.5°	5036.7	3109.4	1906.1	1696.7	1671.8	1760.6	1817.3	1778.3	1611.5	1537.0	1519.2
40°	5405.9	3066.8	1774.7	1618.5	1636.3	1725.0	1757.0	1636.3	1465.9	1419.8	1405.6
42.5°	5941.9	2981.6	1657.6	1551.1	1604.4	1675.4	1675.4	1458.8	1394.9	1370.1	1366.6
45°	6609.1	2921.2	1554.6	1494.4	1558.2	1575.9	1519.2	1366.6	1320.5	1313.3	1316.8
47.5°	6935.7	2804.1	1448.2	1426.9	1473.1	1476.6	1327.5	1292.0	1253.0	1242.3	1235.3
50°	6886.0	2594.7	1309.8	1338.1	1402.0	1366.6	1210.4	1217.5	1182.0	1178.4	1160.7
52.5°	6538.2	2264.6	1171.4	1238.8	1309.8	1206.8	1114.5	1107.5	1107.5	1061.3	1043.6
55°	5796.3	1824.5	1004.5	1089.7	1174.9	1015.2	990.3	983.2	965.4	922.8	912.2
57.5°	4589.5	1338.1	756.1	848.3	997.4	862.6	859.0	827.0	780.9	748.9	748.9
60°	2729.5	770.2	475.6	518.2	660.2	699.2	777.4	763.1	685.0	635.3	621.2
62.5°	1245.9	397.5	301.7	308.8	354.9	454.3	610.5	706.3	596.3	511.1	504.0
65°	418.8	294.6	248.4	237.8	244.9	273.3	365.6	500.5	475.6	394.0	379.8
67.5°	255.6	262.7	234.3	216.5	216.5	213.0	209.5	227.1	280.4	273.3	276.9
70°	220.1	241.4	216.5	195.2	188.2	177.5	149.1	124.3	106.5	124.3	131.3
72.5°	177.5	191.7	184.6	166.9	149.1	134.9	106.5	81.7	60.4	53.2	53.2
75°	131.3	142.0	149.1	127.8	113.6	95.8	78.1	53.2	31.9	21.3	21.3
77.5°	95.8	106.5	110.0	99.4	85.2	67.4	49.7	35.5	17.8	7.1	7.1
80°	81.7	95.8	106.5	99.4	88.7	63.9	46.1	24.8	14.2	3.5	3.5
82.5°	78.1	95.8	106.5	95.8	85.2	60.4	46.1	28.4	10.6	3.5	3.5
85°	17.8	24.8	31.9	39.1	46.1	46.1	35.5	21.3	10.6	3.5	3.5
87.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	3.5	3.5	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)