

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: P528425

Luminaire Tested: **GALN-SA3C-730-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528425
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-730-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11414 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

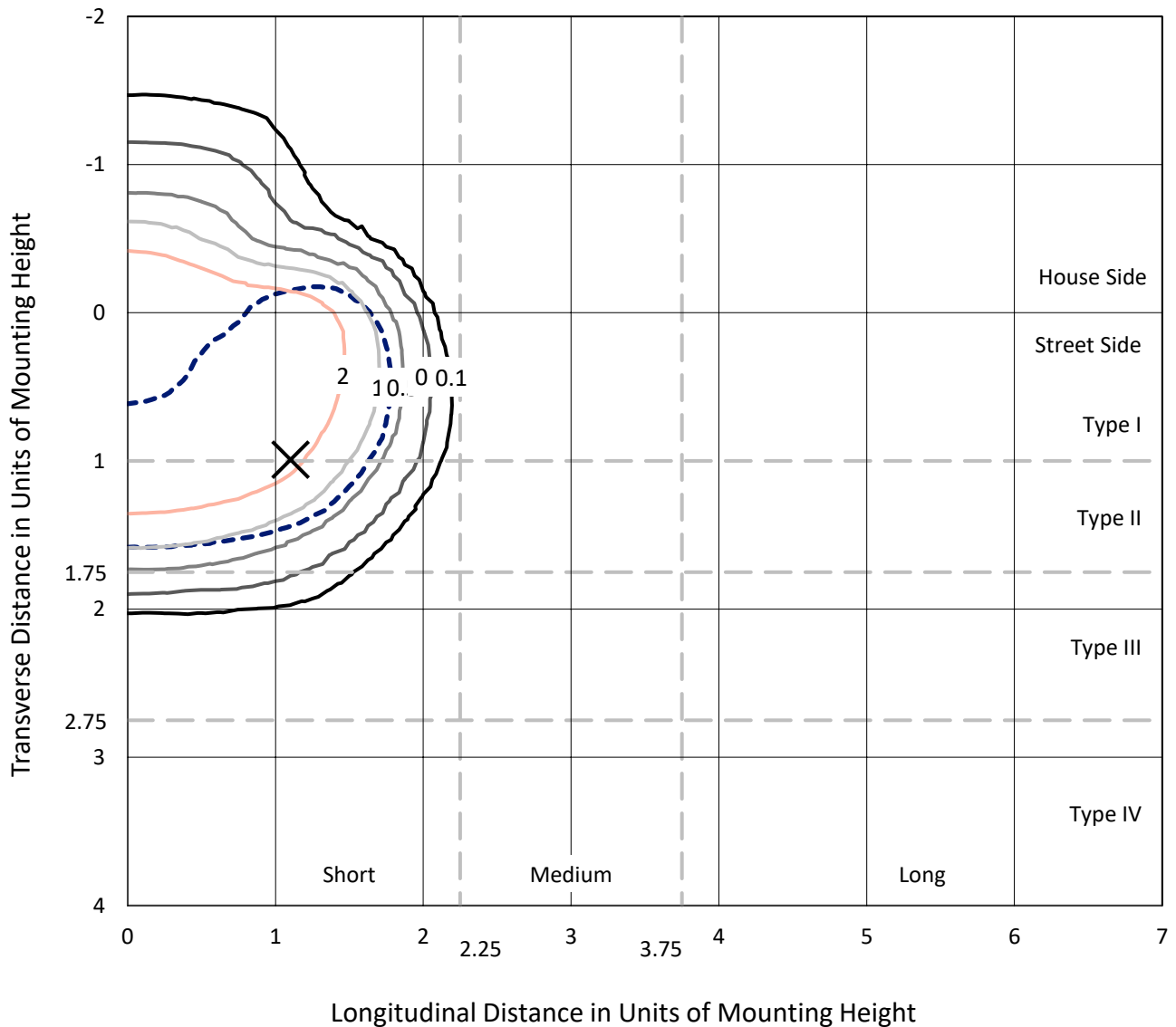
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

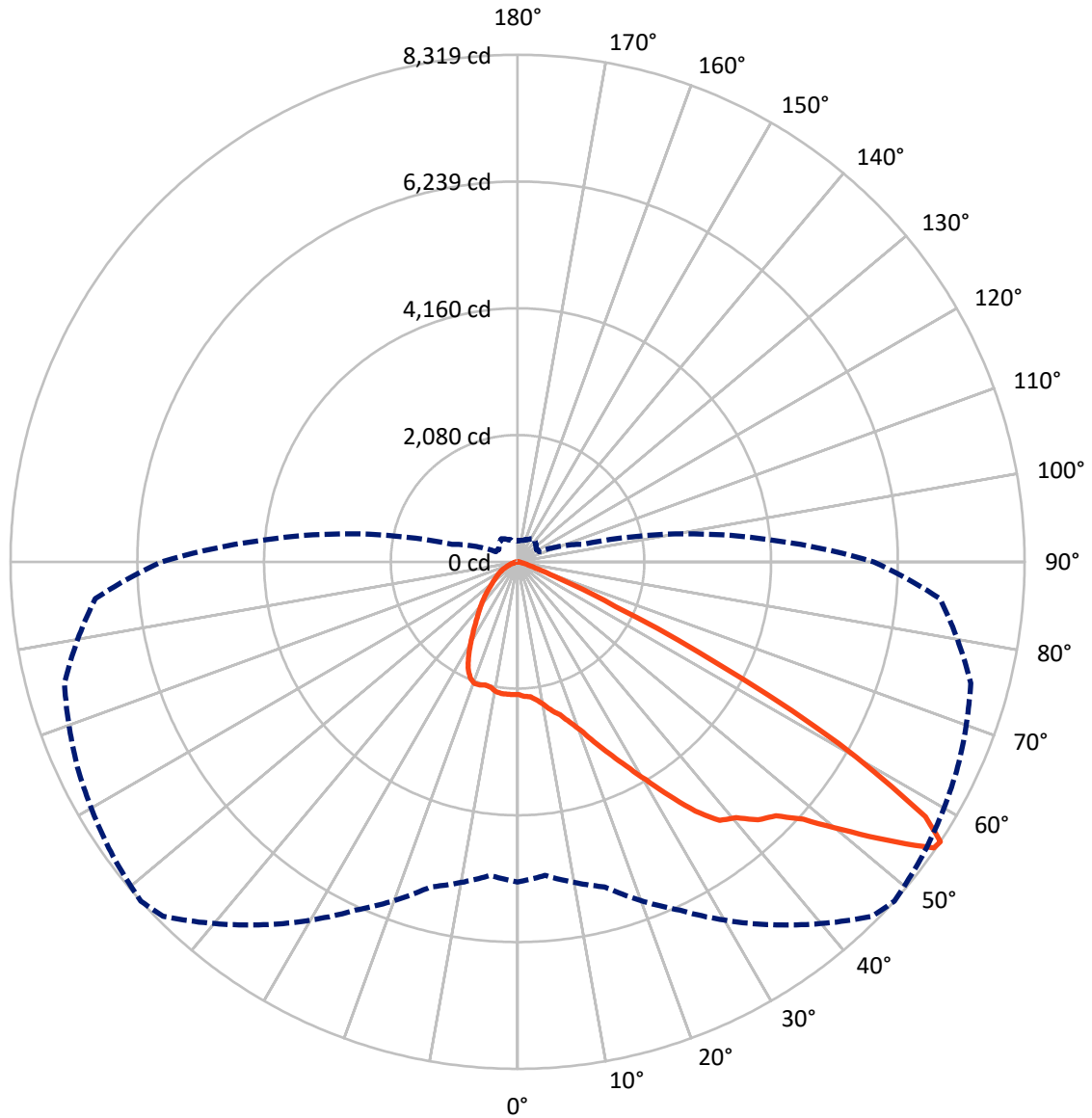
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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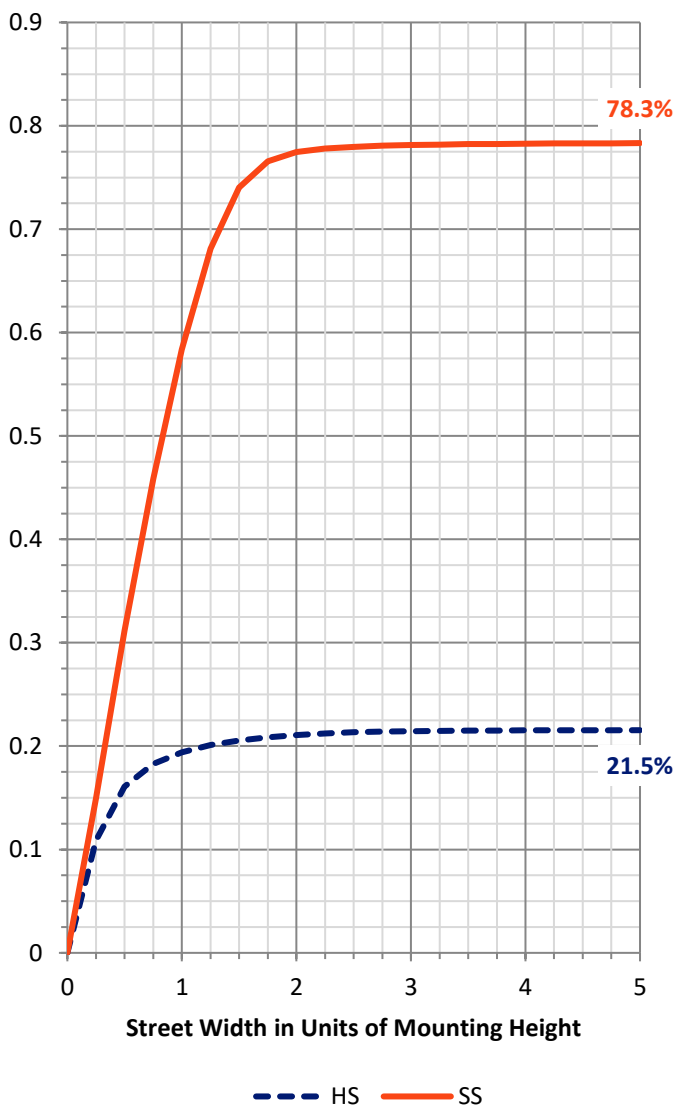
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2482.3	0.0	2482.3
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	8931.7	0.0	8931.7
	% Fixture	78.3	0.0	78.3
Total	Lumens	11414.0	0.0	11414.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.4	1.9
10°-20°	678.7	5.9
20°-30°	1231.0	10.8
30°-40°	1933.6	16.9
40°-50°	2820.8	24.7
50°-60°	3398.5	29.8
60°-70°	995.1	8.7
70°-80°	126.2	1.1
80°-90°	17.7	0.2
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°	11414.0	100.0
0°-180°	11414.0	100.0

Coefficient of Utilization

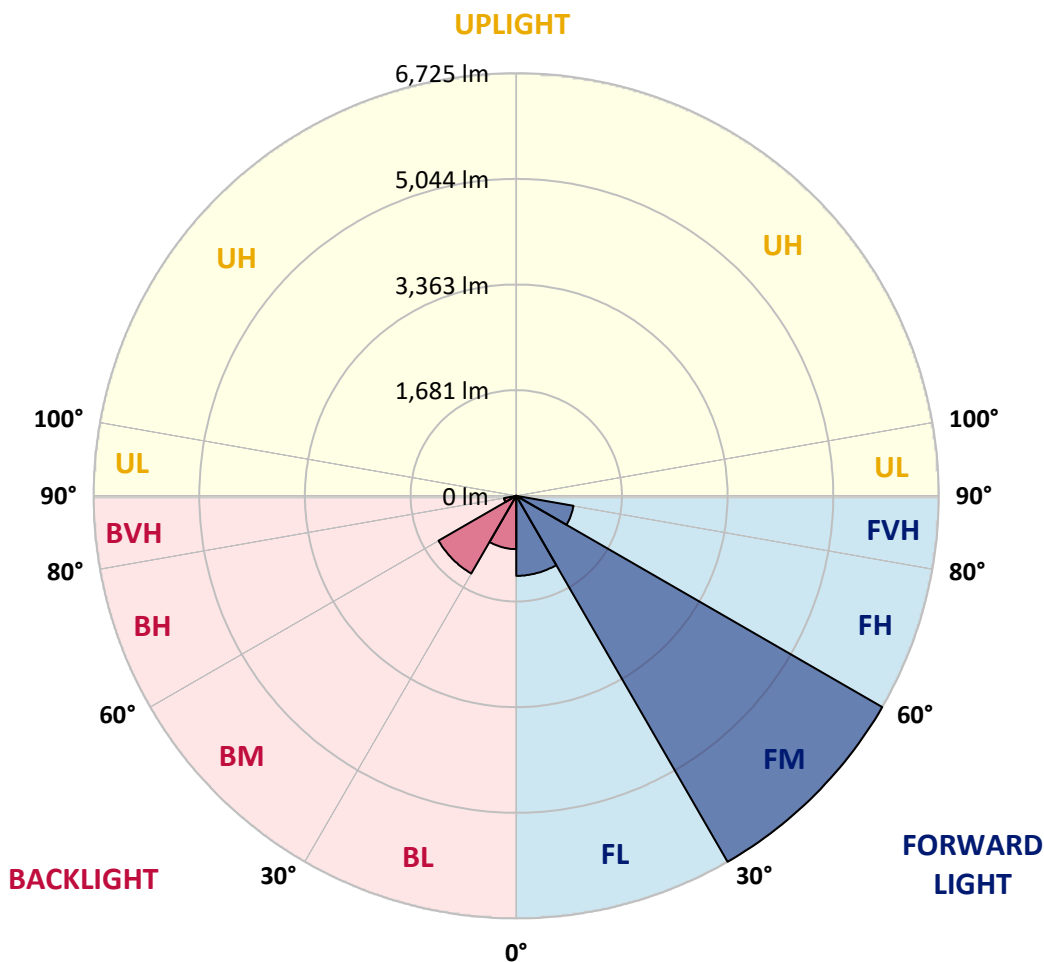


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1273.6	11.2			
FM (30°-60°)	6725.2	58.9			
FH (60°-80°)	924.1	8.1			G1/1800
FVH (80°-90°)	8.9	0.1			G0/10
BL (0°-30°)	848.5	7.4	B2/1000		
BM (30°-60°)	1427.8	12.5	B2/2500		
BH (60°-80°)	197.2	1.7	B1/500		G1/500
BVH (80°-90°)	8.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2180.1	2180.1	2180.1	2180.1	2180.1	2180.1	2180.1	2180.1	2180.1	2180.1	2180.1
2.5°	2219.6	2209.2	2209.2	2192.5	2211.3	2202.9	2209.2	2188.4	2209.2	2178.0	2202.9
5°	2230.0	2232.0	2223.7	2234.1	2234.1	2246.6	2225.8	2244.5	2254.9	2232.0	2221.6
7.5°	2284.0	2288.1	2286.1	2277.8	2294.4	2292.3	2290.2	2275.7	2279.8	2271.5	2259.1
10°	2390.0	2387.9	2398.3	2377.5	2365.0	2379.6	2383.7	2360.9	2344.3	2338.0	2298.5
12.5°	2543.8	2518.8	2504.3	2483.5	2489.7	2469.0	2506.4	2466.9	2458.6	2421.2	2381.7
15°	2668.5	2664.3	2666.4	2633.1	2595.7	2604.0	2604.0	2583.3	2570.8	2525.1	2469.0
17.5°	2924.1	2836.8	2855.5	2813.9	2782.8	2780.7	2762.0	2766.1	2732.9	2637.3	2552.1
20°	3123.6	3086.2	3057.1	2986.4	2938.6	2953.2	2944.9	2924.1	2913.7	2789.0	2668.5
22.5°	3302.3	3314.8	3267.0	3248.3	3181.8	3188.0	3204.7	3185.9	3107.0	2978.1	2799.4
25°	3553.8	3539.3	3474.8	3452.0	3389.6	3412.5	3476.9	3462.4	3412.5	3179.7	2901.2
27.5°	3851.0	3801.1	3813.6	3709.7	3649.4	3713.8	3790.7	3863.5	3722.1	3416.6	3021.8
30°	4060.9	4008.9	4004.8	4000.6	3986.1	4060.9	4150.3	4216.8	4102.5	3653.6	3221.3
32.5°	4164.8	4177.3	4212.6	4200.1	4326.9	4480.7	4574.2	4669.8	4526.4	4040.1	3485.2
35°	4441.2	4362.2	4441.2	4449.5	4580.5	4906.7	5025.2	5253.8	5218.5	4586.7	3807.3
37.5°	4603.3	4597.1	4607.5	4686.4	4813.2	5216.4	5384.7	5561.4	5494.9	4915.0	4208.4
40°	4871.4	4888.0	4886.0	4946.2	5085.5	5449.2	5517.7	5661.1	5667.4	5370.2	4798.7
42.5°	5301.6	5235.1	5191.5	5253.8	5449.2	5650.7	5787.9	5758.8	5964.6	5923.0	5557.2
45°	5688.2	5727.6	5663.2	5767.1	5837.8	5945.9	5941.7	6004.0	6265.9	6463.3	6128.7
47.5°	6049.8	6074.7	6105.9	6176.5	6330.3	6347.0	6311.6	6284.6	6646.2	6849.9	6571.4
50°	6265.9	6288.8	6434.2	6561.0	6847.8	6885.2	6906.0	6837.4	7082.7	7105.5	6989.1
52.5°	6207.7	6232.7	6436.3	6854.1	7311.3	7654.2	7591.8	7475.4	7460.9	7550.3	7375.7
55°	5692.3	5669.5	5950.0	6600.5	7456.7	8279.7	8288.0	8165.4	7930.6	7870.3	7317.5
56°	5253.8	5164.4	5521.9	6307.5	7269.7	8225.7	8319.2	8188.3	7968.0	7697.8	6958.0
57.5°	4304.0	4389.3	4744.6	5395.1	6623.4	7837.1	7891.1	7859.9	7693.7	7240.6	6122.5
60°	2373.4	2523.0	2836.8	3632.8	4715.5	6014.4	6058.1	6311.6	6342.8	5544.8	4212.6
62.5°	1007.9	991.3	1317.6	1903.7	2685.1	3630.7	3711.7	3971.5	4019.3	3196.3	2113.6
65°	409.4	432.3	596.5	958.1	1419.4	1654.3	1768.6	1853.8	2011.7	1319.7	779.3
67.5°	270.2	268.1	351.2	546.6	764.8	737.8	737.8	779.3	721.2	538.3	336.7
70°	193.3	199.5	251.5	378.2	475.9	353.3	338.8	324.2	367.8	355.4	272.3
72.5°	126.8	135.1	168.3	226.5	247.3	193.3	193.3	232.8	303.4	286.8	222.4
75°	83.1	85.2	103.9	130.9	122.6	99.8	110.1	155.9	220.3	212.0	157.9
77.5°	56.1	58.2	70.7	85.2	68.6	56.1	60.3	79.0	108.1	108.1	83.1
80°	20.8	22.9	29.1	27.0	31.2	39.5	43.6	54.0	64.4	64.4	56.1
82.5°	0.0	2.1	6.2	14.5	22.9	31.2	35.3	41.6	47.8	54.0	52.0
85°	0.0	2.1	6.2	10.4	16.6	18.7	20.8	14.5	12.5	12.5	10.4
87.5°	0.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1	4.2	2.1	2.1
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°	2180.1	2180.1	2180.1	2180.1	2180.1	2180.1	2180.1	2180.1	2180.1	2180.1	2180.1
2.5°	2180.1	2178.0	2178.0	2171.8	2184.2	2178.0	2182.2	2180.1	2153.1	2173.8	2159.3
5°	2202.9	2217.5	2194.6	2190.5	2173.8	2180.1	2180.1	2159.3	2178.0	2175.9	2171.8
7.5°	2261.1	2236.2	2211.3	2186.3	2182.2	2175.9	2153.1	2144.7	2159.3	2142.7	2167.6
10°	2286.1	2290.2	2252.8	2219.6	2188.4	2144.7	2113.6	2094.9	2072.0	2096.9	2111.5
12.5°	2400.4	2358.8	2294.4	2242.4	2136.4	2092.8	2061.6	2053.3	2092.8	2101.1	2086.6
15°	2439.9	2433.6	2350.5	2234.1	2124.0	2072.0	2078.2	2061.6	2065.8	2045.0	2049.1
17.5°	2520.9	2450.3	2352.6	2207.1	2121.9	2109.4	2072.0	2005.5	1968.1	1951.5	1966.0
20°	2610.3	2541.7	2400.4	2217.5	2140.6	2107.3	1984.7	1903.7	1826.8	1785.2	1787.3
22.5°	2689.2	2604.0	2379.6	2221.6	2157.2	2020.1	1872.5	1712.5	1616.9	1552.4	1554.5
25°	2784.8	2664.3	2387.9	2230.0	2113.6	1880.8	1668.8	1513.0	1398.7	1355.0	1369.6
27.5°	2838.9	2701.7	2433.6	2248.7	1999.3	1683.4	1454.8	1309.3	1242.8	1222.0	1219.9
30°	3001.0	2784.8	2489.7	2211.3	1808.1	1471.4	1259.4	1170.1	1105.6	1086.9	1091.1
32.5°	3242.1	2936.6	2562.5	2113.6	1612.7	1282.3	1132.6	1066.1	1005.9	970.5	966.4
35°	3443.7	3196.3	2639.4	1961.9	1386.2	1136.8	1043.3	960.1	868.7	829.2	818.8
37.5°	3828.1	3489.4	2622.7	1733.3	1170.1	1028.7	947.7	845.8	766.9	712.8	706.6
40°	4339.4	3832.3	2541.7	1454.8	1010.0	933.1	845.8	748.2	650.5	604.8	600.6
42.5°	4960.8	4252.1	2394.1	1172.1	850.0	837.5	758.6	646.3	559.0	525.8	527.9
45°	5465.8	4611.6	2244.5	941.4	731.5	744.0	675.4	569.4	509.2	482.2	482.2
47.5°	5914.7	4854.8	2082.4	777.3	621.4	650.5	590.2	527.9	475.9	455.1	451.0
50°	6347.0	5102.1	1920.3	629.7	530.0	559.0	552.8	502.9	461.4	436.4	438.5
52.5°	6617.1	5141.6	1714.6	515.4	463.4	496.7	517.5	471.8	426.0	411.5	407.3
55°	6286.7	4632.4	1330.1	424.0	392.8	436.4	475.9	424.0	388.6	363.7	361.6
56°	5841.9	4141.9	1111.9	390.7	372.0	419.8	461.4	405.3	365.8	351.2	340.8
57.5°	4946.2	3389.6	820.9	347.1	345.0	390.7	438.5	386.6	340.8	328.4	328.4
60°	3084.1	1907.8	496.7	291.0	299.3	347.1	394.9	345.0	303.4	303.4	309.7
62.5°	1404.9	793.9	301.3	247.3	257.7	299.3	351.2	311.7	288.9	311.7	315.9
65°	478.0	342.9	218.2	197.4	203.7	247.3	301.3	315.9	313.8	328.4	336.7
67.5°	268.1	220.3	182.9	164.2	160.0	182.9	247.3	315.9	303.4	297.2	301.3
70°	226.5	187.0	162.1	145.5	139.2	147.6	191.2	239.0	214.1	207.8	203.7
72.5°	182.9	155.9	141.3	130.9	112.2	95.6	87.3	91.4	101.8	108.1	118.5
75°	128.9	118.5	118.5	106.0	81.1	60.3	47.8	39.5	27.0	18.7	20.8
77.5°	72.7	72.7	74.8	64.4	52.0	39.5	29.1	20.8	10.4	4.2	2.1
80°	49.9	54.0	58.2	52.0	43.6	35.3	24.9	14.5	6.2	0.0	0.0
82.5°	49.9	56.1	60.3	52.0	43.6	33.3	24.9	14.5	6.2	2.1	0.0
85°	10.4	12.5	14.5	16.6	24.9	24.9	18.7	12.5	6.2	2.1	0.0
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0	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)