

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: P456684

Luminaire Tested: **GALN-SA8A-722-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456684
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-722-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19638 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G4

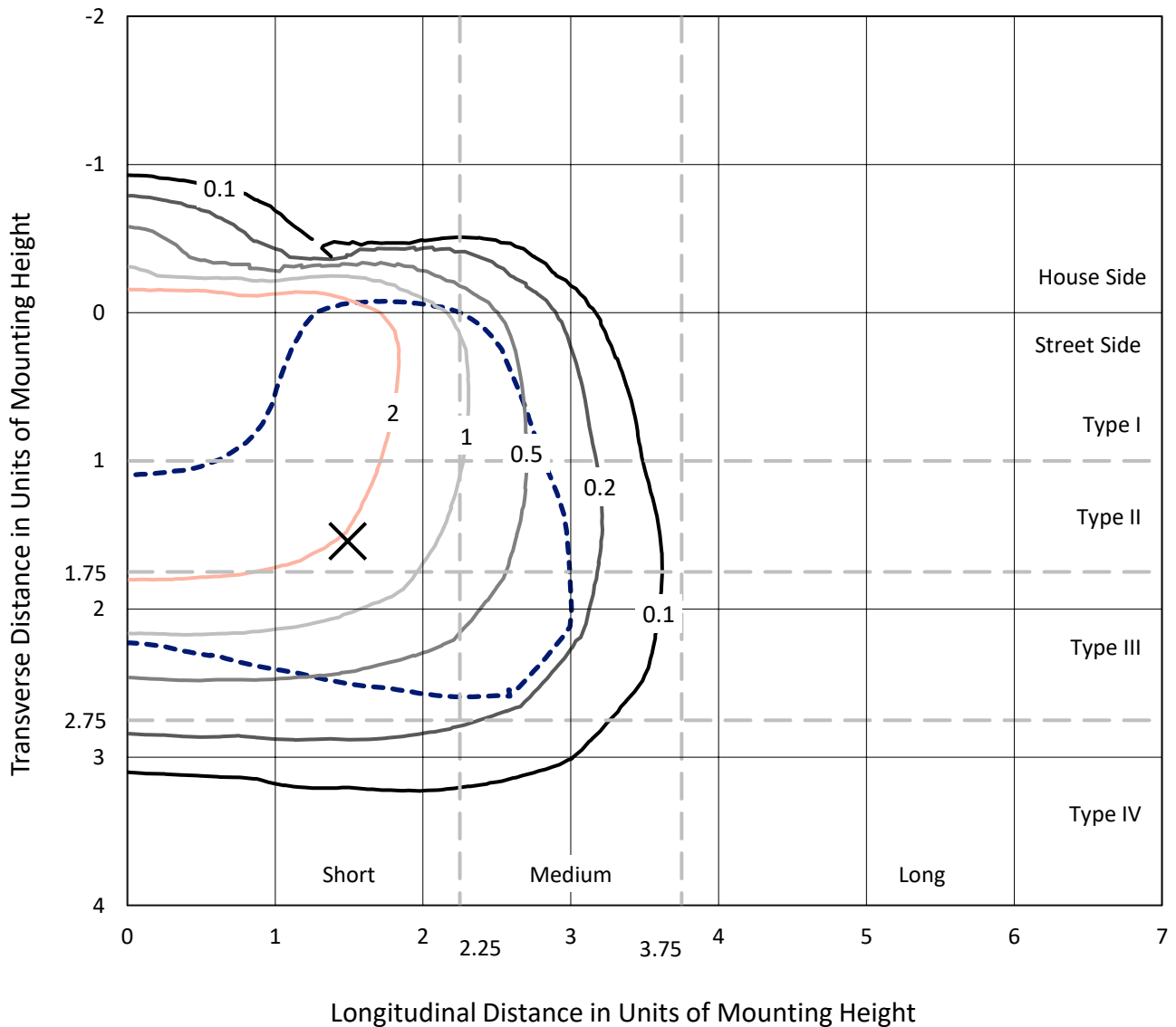
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

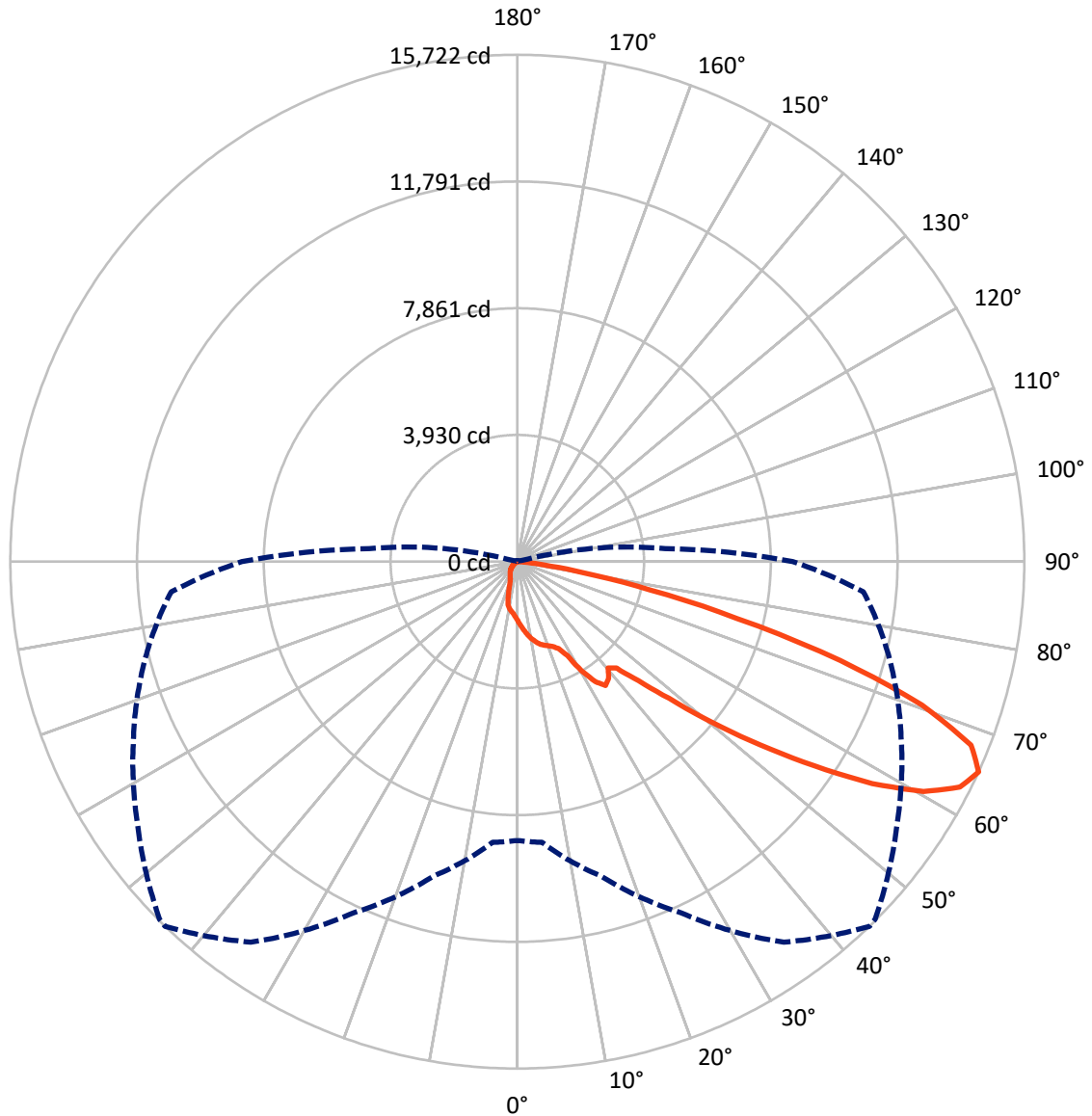
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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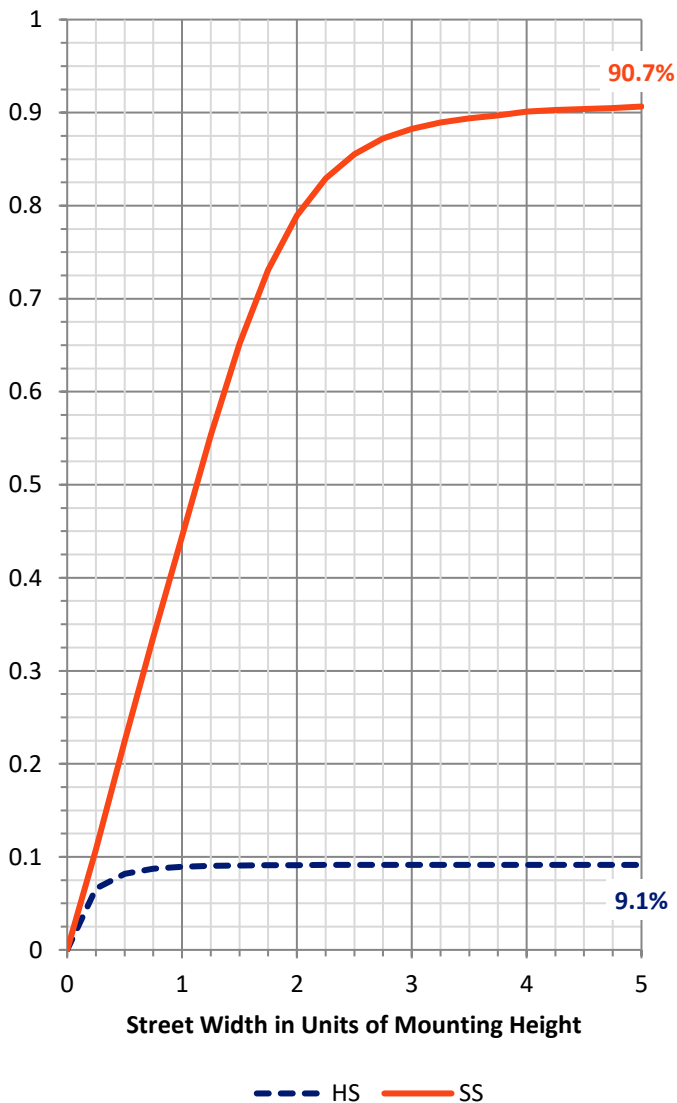
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1809.3	0.0	1809.3
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	17828.6	0.0	17828.6
	% Fixture	90.8	0.0	90.8
Total	Lumens	19638.0	0.0	19638.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.8	0.9
10°-20°	547.1	2.8
20°-30°	927.7	4.7
30°-40°	1542.5	7.9
40°-50°	2693.2	13.7
50°-60°	5261.5	26.8
60°-70°	6104.6	31.1
70°-80°	2223.0	11.3
80°-90°	156.6	0.8
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°	19638.0	100.0
0°-180°	19638.0	100.0



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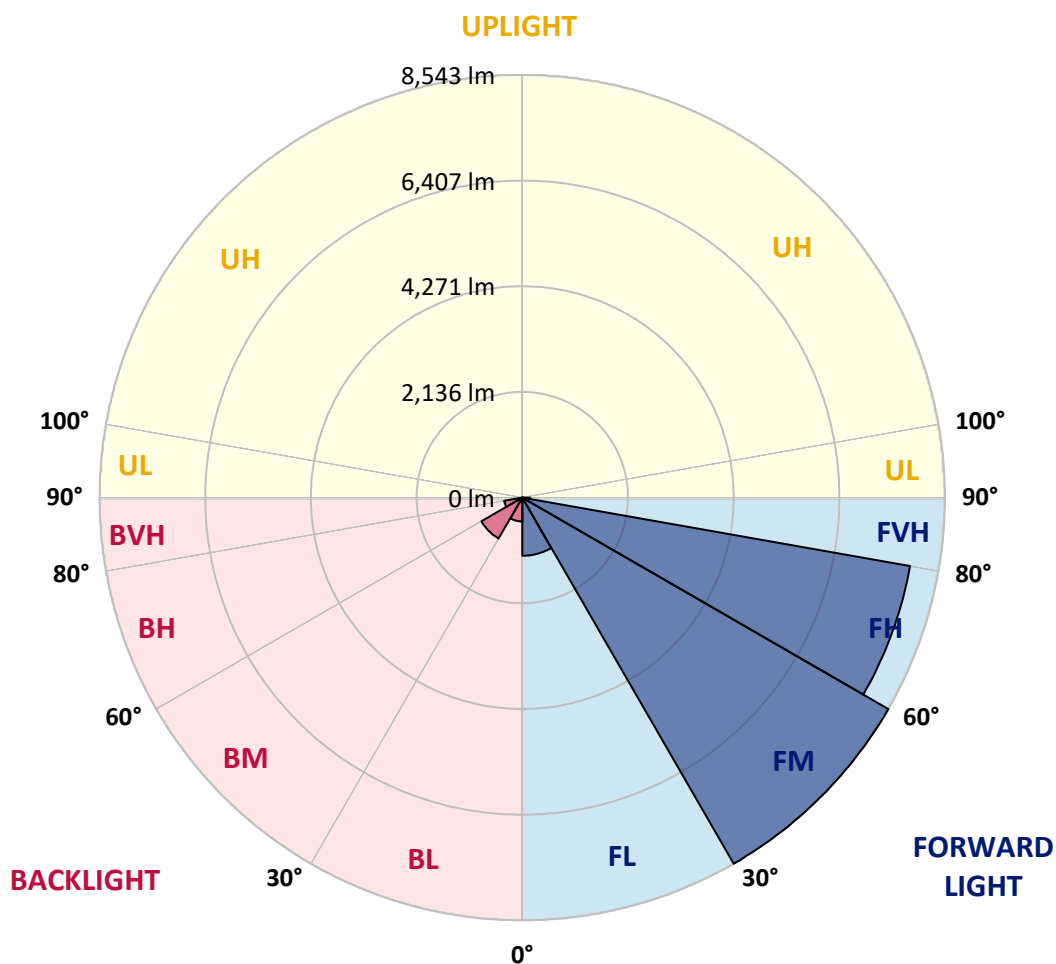
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1174.5	6.0			
FM (30°-60°)	8542.6	43.5			
FH (60°-80°)	7957.1	40.5			G4/12000
FVH (80°-90°)	154.5	0.8			G2/225
BL (0°-30°)	482.1	2.5	B1/500		
BM (30°-60°)	954.6	4.9	B1/1000		
BH (60°-80°)	370.5	1.9	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7
2.5°	2057.3	2048.3	2043.8	2019.8	2001.8	1979.3	1979.3	1950.8	1917.7	1881.7	1848.7
5°	2286.9	2271.9	2252.4	2231.4	2189.4	2129.3	2129.3	2069.3	2000.3	1938.8	1871.2
7.5°	2507.5	2494.0	2461.0	2420.4	2351.4	2288.4	2283.9	2196.9	2114.3	2021.3	1925.3
10°	2701.1	2690.5	2662.0	2584.0	2512.0	2429.4	2427.9	2330.4	2234.4	2120.3	2001.8
12.5°	2836.1	2837.6	2800.1	2725.1	2632.0	2554.0	2548.0	2452.0	2351.4	2228.4	2082.8
15°	2932.1	2932.1	2893.1	2809.1	2725.1	2656.0	2650.0	2566.0	2462.5	2328.9	2171.3
17.5°	2959.2	2968.2	2926.1	2851.1	2783.6	2723.6	2722.1	2651.5	2569.0	2440.0	2261.4
20°	2948.6	2957.7	2924.6	2866.1	2819.6	2785.1	2780.6	2752.1	2675.5	2554.0	2357.4
22.5°	2926.1	2935.1	2911.1	2876.6	2854.1	2864.6	2857.1	2881.1	2840.6	2693.5	2471.5
25°	2930.6	2939.6	2921.6	2902.1	2921.6	2986.2	3005.7	3109.2	3073.2	2870.6	2594.5
27.5°	3071.7	3089.7	3064.2	3073.2	3142.2	3292.3	3329.8	3508.4	3349.3	3095.7	2786.6
30°	3385.3	3373.3	3325.3	3368.8	3608.9	3927.0	3916.5	3888.0	3638.9	3355.3	3014.7
32.5°	3670.4	3659.9	3656.9	3844.5	4279.7	4434.2	4426.7	4150.6	3898.5	3652.4	3239.8
35°	3786.0	3745.5	3736.5	4191.1	4918.9	4714.8	4668.3	4258.7	4213.6	3976.5	3469.4
37.5°	4134.1	4105.6	3966.0	4248.2	4663.8	4596.3	4560.3	4444.7	4549.8	4263.2	3729.0
40°	4851.4	4771.9	4645.8	4369.7	4302.2	4330.7	4366.7	4683.3	4947.4	4654.8	4075.6
42.5°	5742.7	5724.7	5490.6	4975.9	4470.2	4509.3	4555.8	5181.5	5519.2	5244.5	4641.3
45°	6812.7	6838.2	6500.5	5892.8	5229.5	5262.6	5330.1	5916.8	6293.5	6161.4	5531.2
47.5°	7785.0	7765.5	7651.5	7019.7	6407.5	6334.0	6443.5	6860.7	7364.9	7385.9	6635.6
50°	8763.4	8867.0	8697.4	8449.8	7995.1	7840.6	7800.0	8004.1	8772.4	8671.9	7962.1
52.5°	10169.5	10223.5	9905.4	9842.3	9945.9	9444.7	9404.2	9453.7	10141.0	9795.8	8955.5
55°	11053.3	11021.8	10903.2	11395.4	11805.1	11179.4	11128.3	10928.8	11276.9	10589.6	9911.4
57.5°	11332.4	11377.4	11653.5	12543.4	13512.8	12981.6	12888.5	12321.3	12096.2	11329.4	10790.7
60°	11207.9	11290.4	11886.1	13209.6	14554.2	14474.6	14395.1	13442.2	12684.4	11947.7	11407.4
62.5°	10321.0	10436.6	11389.4	13091.1	14906.8	15403.5	15304.5	14141.5	13076.1	12247.8	11515.5
65°	8649.4	8734.9	10103.4	12015.2	14405.6	15721.6	15685.6	14360.6	13137.6	11973.2	10775.7
67.5°	6165.9	6457.0	7725.0	10125.9	12923.0	15178.4	15239.9	14098.0	12559.9	10786.2	8924.0
70°	3876.0	4074.1	4983.4	7249.3	10360.0	13316.2	13518.8	12896.0	10900.2	8407.8	5973.8
72.5°	1848.7	1995.8	2644.0	4588.8	7312.3	10477.1	10637.6	10586.6	8428.8	5297.1	3082.2
75°	823.8	879.3	1262.0	2342.4	4720.8	7042.2	7457.9	7526.9	5267.1	2591.5	1199.0
77.5°	420.2	421.7	591.2	1134.4	2357.4	4201.6	4284.2	4525.8	2855.6	1141.9	417.2
80°	223.6	238.6	313.6	535.7	1223.0	2069.3	2058.8	2262.9	1266.5	559.7	139.6
82.5°	100.5	111.0	177.1	280.6	597.2	784.8	846.3	925.9	543.2	357.1	61.5
85°	30.0	36.0	87.0	141.1	216.1	226.6	253.6	327.1	307.6	253.6	31.5
87.5°	4.5	4.5	36.0	39.0	31.5	40.5	42.0	46.5	99.0	93.0	16.5
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°	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7	1827.7
2.5°	1830.7	1820.2	1782.7	1751.2	1724.2	1707.7	1688.2	1676.2	1670.2	1665.6	1667.1
5°	1838.2	1812.7	1748.2	1697.2	1658.1	1616.1	1587.6	1571.1	1563.6	1551.6	1551.6
7.5°	1880.2	1839.7	1749.7	1671.7	1604.1	1547.1	1493.1	1473.6	1460.1	1457.1	1454.1
10°	1940.3	1889.2	1766.2	1658.1	1562.1	1484.1	1407.5	1340.0	1287.5	1256.0	1251.5
12.5°	2015.3	1941.8	1791.7	1649.1	1526.1	1388.0	1185.5	1048.9	957.4	928.9	933.4
15°	2084.3	2004.8	1817.2	1641.6	1460.1	1150.9	921.4	765.3	718.8	714.3	715.8
17.5°	2166.8	2072.3	1847.2	1631.1	1278.5	879.3	684.3	642.3	651.3	666.3	664.8
20°	2252.4	2144.3	1883.2	1568.1	1020.4	661.8	604.7	609.2	622.7	636.2	639.2
22.5°	2343.9	2226.9	1925.3	1416.6	778.8	576.2	573.2	579.2	592.7	607.7	610.7
25°	2470.0	2330.4	1956.8	1218.5	589.7	532.7	538.7	549.2	561.2	577.7	580.7
27.5°	2632.0	2470.0	1973.3	960.4	510.2	493.7	495.2	510.2	525.2	540.2	540.2
30°	2842.1	2636.5	1940.3	726.3	471.2	456.2	450.2	459.2	478.7	493.7	495.2
32.5°	3029.7	2794.1	1853.2	555.2	442.7	421.7	406.7	408.2	415.7	424.7	426.2
35°	3217.3	2947.1	1704.7	466.7	412.7	388.7	366.1	354.1	348.1	343.6	348.1
37.5°	3457.3	3137.7	1506.6	424.7	387.2	357.1	325.6	300.1	279.1	265.6	268.6
40°	3766.5	3401.8	1272.5	397.7	363.1	327.1	285.1	252.1	216.1	204.1	198.1
42.5°	4276.7	3802.5	1026.4	375.1	339.1	295.6	243.1	198.1	165.1	153.1	156.1
45°	5082.5	4308.2	790.8	351.1	315.1	261.1	204.1	156.1	129.1	123.0	126.0
47.5°	6150.9	4962.4	609.2	324.1	285.1	223.6	160.6	123.0	106.5	105.0	103.5
50°	7156.3	5571.7	508.7	294.1	249.1	186.1	132.1	103.5	93.0	91.5	91.5
52.5°	8065.6	6008.3	414.2	259.6	210.1	153.1	111.0	91.5	82.5	78.0	78.0
55°	8874.5	6293.5	336.1	217.6	165.1	121.5	96.0	82.5	72.0	66.0	64.5
57.5°	9485.2	6328.0	252.1	174.1	123.0	94.5	82.5	72.0	60.0	52.5	49.5
60°	9746.3	6029.3	186.1	132.1	91.5	75.0	66.0	58.5	45.0	37.5	36.0
62.5°	9483.7	5448.6	138.1	100.5	70.5	55.5	46.5	43.5	31.5	22.5	21.0
65°	8542.8	4609.8	109.5	76.5	52.5	40.5	30.0	28.5	19.5	10.5	9.0
67.5°	6844.2	3610.4	87.0	57.0	37.5	27.0	19.5	18.0	10.5	3.0	3.0
70°	4450.7	2307.9	70.5	42.0	24.0	18.0	12.0	9.0	6.0	1.5	0.0
72.5°	2201.4	1078.9	57.0	33.0	16.5	9.0	4.5	3.0	4.5	0.0	0.0
75°	853.8	384.1	42.0	22.5	9.0	4.5	3.0	0.0	1.5	0.0	0.0
77.5°	283.6	127.5	25.5	12.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0
80°	105.0	49.5	13.5	7.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	42.0	19.5	9.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.0	12.0	6.0	4.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.0	9.0	6.0	4.5	3.0	1.5	0.0	0.0	0.0	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)