

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: P453426

Luminaire Tested: **GALN-SA4C-722-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453426
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-722-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2200K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15284 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

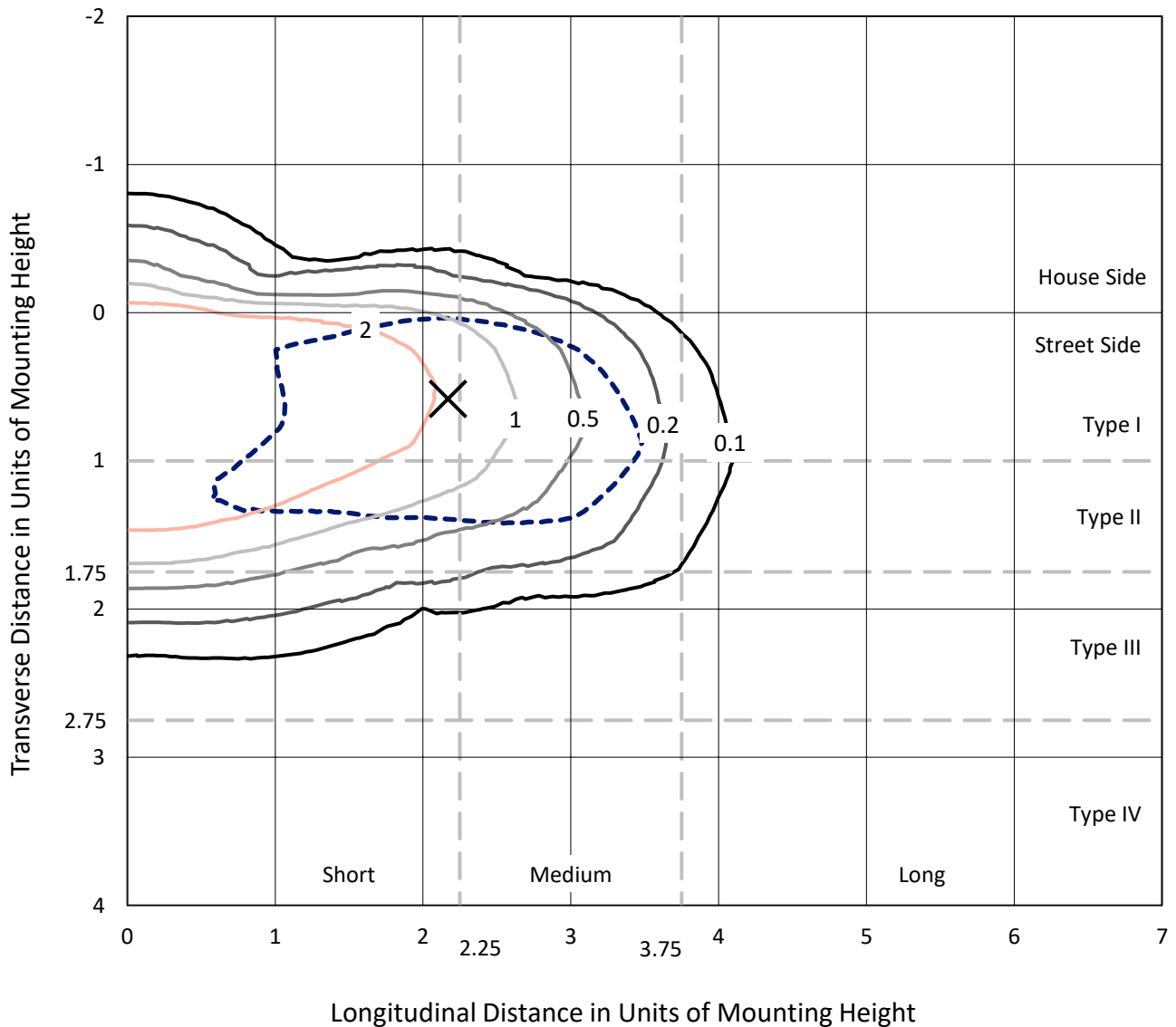
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

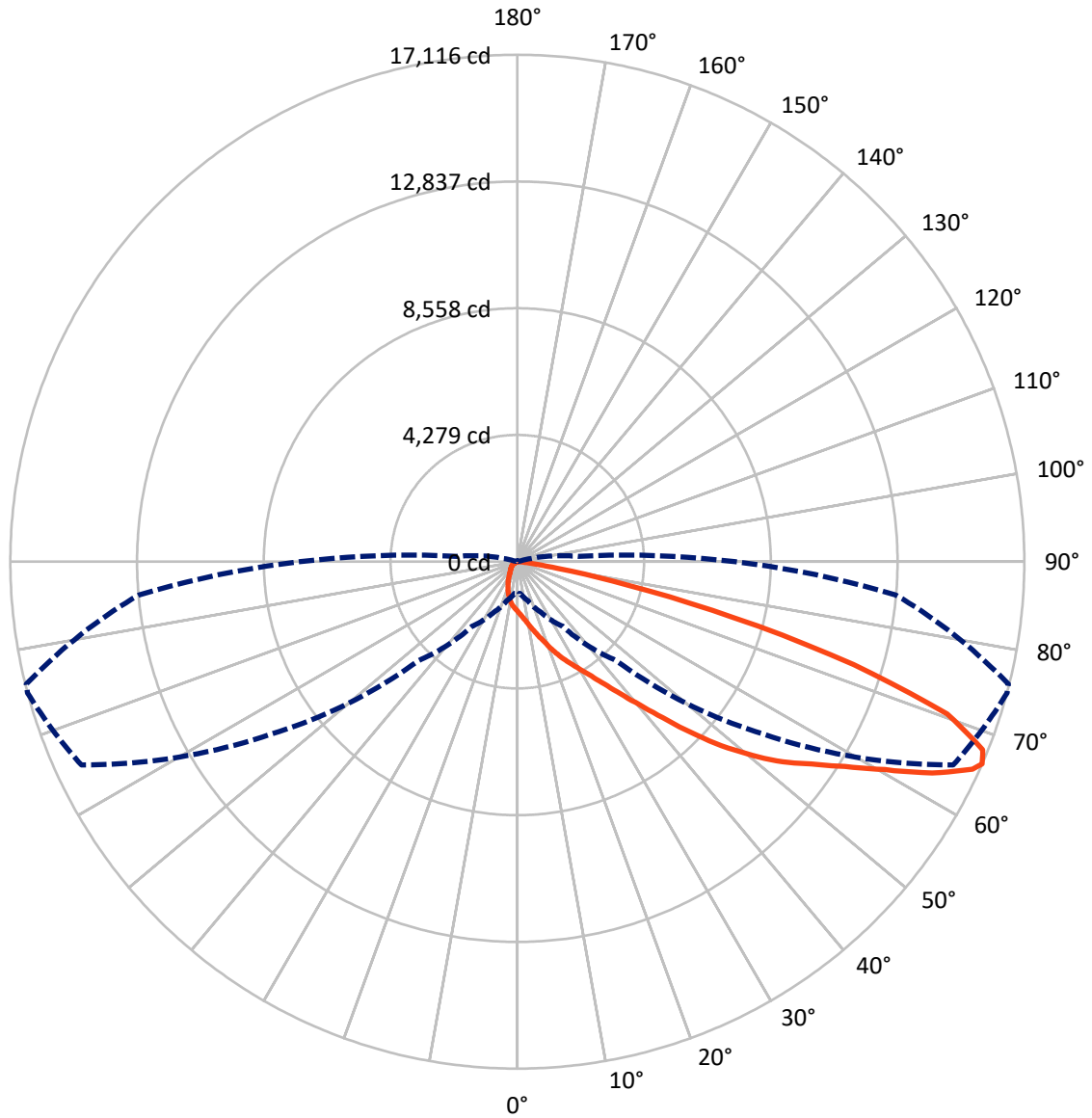
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical



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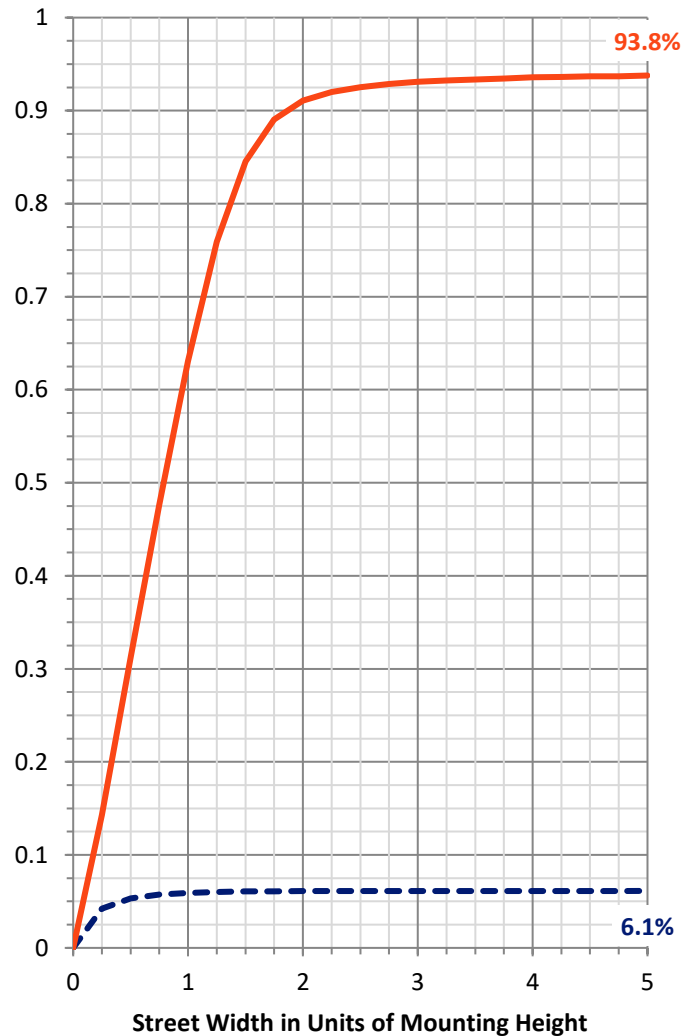
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	943.6	0.0	943.6
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	14340.4	0.0	14340.4
	% Fixture	93.8	0.0	93.8
Total	Lumens	15284.0	0.0	15284.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.2	1.1
10°-20°	474.5	3.1
20°-30°	819.3	5.4
30°-40°	1477.8	9.7
40°-50°	2669.7	17.5
50°-60°	4162.2	27.2
60°-70°	3953.9	25.9
70°-80°	1481.8	9.7
80°-90°	83.6	0.5
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°	15284.0	100.0
0°-180°	15284.0	100.0



--- HS — SS

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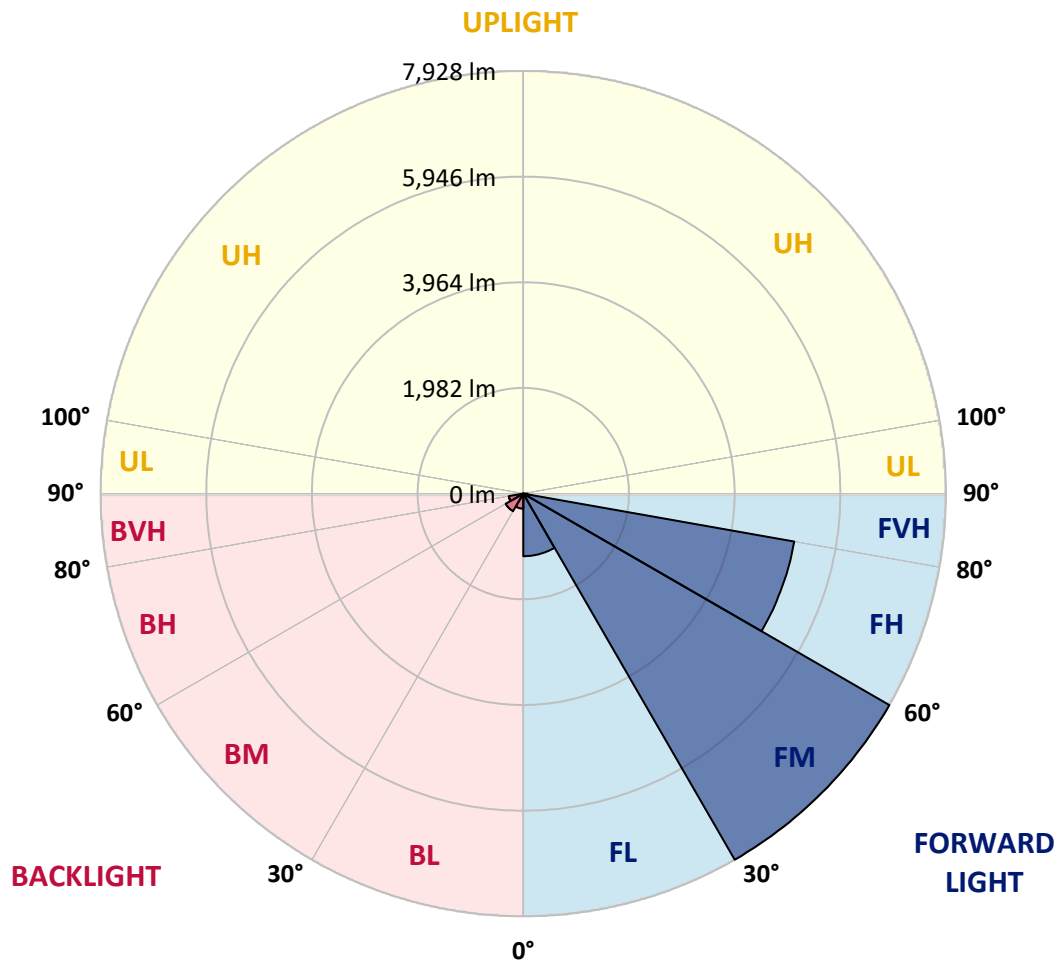
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1173.2	7.7			
FM (30°-60°)	7927.8	51.9			
FH (60°-80°)	5160.2	33.8			G3/7500
FVH (80°-90°)	79.3	0.5			G1/100
BL (0°-30°)	281.8	1.8	B1/500		
BM (30°-60°)	381.9	2.5	B1/1000		
BH (60°-80°)	275.5	1.8	B1/500		G1/500
BVH (80°-90°)	4.3	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1671.5	1671.5	1671.5	1671.5	1671.5	1671.5	1671.5	1671.5	1671.5	1671.5	1671.5
2.5°	1996.9	1972.1	1980.0	1968.7	1942.7	1904.3	1870.4	1821.8	1773.2	1765.3	1711.0
5°	2260.3	2253.5	2244.4	2211.7	2193.6	2134.8	2064.7	1981.1	1880.5	1862.4	1764.1
7.5°	2439.9	2436.6	2441.1	2424.1	2408.3	2355.2	2280.6	2166.5	2010.5	2000.3	1836.5
10°	2498.7	2507.7	2524.7	2551.8	2576.7	2559.7	2503.2	2360.8	2178.9	2149.5	1919.0
12.5°	2464.8	2475.0	2515.7	2588.0	2668.2	2714.6	2692.0	2588.0	2357.4	2333.7	2011.6
15°	2377.8	2390.2	2447.9	2559.7	2703.3	2834.4	2890.9	2816.3	2565.4	2527.0	2123.5
17.5°	2249.0	2267.0	2349.5	2497.6	2694.2	2920.2	3079.6	3054.7	2786.9	2750.7	2245.6
20°	2151.8	2165.3	2235.4	2404.9	2655.8	2967.7	3259.3	3329.4	3060.4	2998.2	2389.1
22.5°	2216.2	2220.7	2244.4	2346.1	2586.9	2980.1	3417.5	3615.3	3350.8	3295.4	2538.3
25°	2531.5	2486.3	2462.5	2439.9	2572.2	2968.8	3561.0	3913.6	3640.1	3581.4	2686.3
27.5°	3028.7	3008.4	2888.6	2728.1	2697.6	2983.5	3656.0	4196.2	3912.5	3849.2	2831.0
30°	3570.1	3535.0	3461.6	3226.5	2990.3	3087.5	3724.9	4470.8	4234.6	4151.0	2963.2
32.5°	4067.3	4089.9	3980.3	3738.5	3465.0	3309.0	3814.2	4770.3	4604.1	4500.2	3116.9
35°	4647.1	4692.3	4523.9	4292.2	3972.4	3709.1	3988.2	5108.2	5073.1	4942.0	3354.2
37.5°	5235.9	5263.0	5160.2	4834.7	4546.5	4217.6	4316.0	5525.2	5650.6	5538.7	3637.9
40°	5730.9	5768.2	5692.4	5403.1	5095.7	4806.4	4791.7	5979.5	6337.7	6222.5	4060.5
42.5°	6109.5	6137.7	6140.0	5935.4	5658.5	5527.4	5398.6	6559.3	7198.9	7065.5	4551.0
45°	6587.5	6628.2	6604.5	6465.5	6258.6	6234.9	6168.2	7259.9	8229.6	8061.2	5187.3
47.5°	7326.6	7353.7	7295.0	7131.1	6920.9	6958.2	6918.6	8045.4	9280.6	9135.9	5846.1
50°	7839.7	7884.9	7968.5	8034.1	7881.5	7743.6	7626.1	8778.8	10278.5	10148.5	6519.7
52.5°	7834.0	7908.6	8173.1	8503.1	8836.5	8794.6	8456.7	9589.1	11231.2	11070.7	7152.6
55°	7306.3	7450.9	7839.7	8425.1	9348.4	9808.4	9654.7	10527.1	12053.9	11945.4	7886.0
57.5°	6216.8	6305.0	6845.2	7663.4	9062.5	10285.3	11042.5	11798.5	13040.5	12989.7	9025.2
60°	4181.5	4221.0	4916.0	5927.5	7715.4	9809.5	12059.6	13336.6	14255.4	14230.5	10355.3
62.5°	2395.9	2412.8	2916.9	3770.1	5490.2	8313.2	12145.5	15234.1	15712.1	15725.7	11894.6
65°	1289.5	1298.5	1705.4	2212.8	3340.7	5925.3	10921.5	16273.8	16889.7	16915.7	12848.4
66°	1113.2	1070.2	1357.3	1886.2	2658.1	4716.0	10147.4	16236.5	17115.8	17087.5	12814.5
67.5°	846.5	884.9	1083.8	1450.0	1969.8	3353.1	8377.6	15514.4	16944.0	16855.8	12293.5
70°	605.7	621.6	771.9	1034.1	1341.5	1839.8	5353.4	12885.7	15400.2	15281.6	10710.2
72.5°	391.0	408.0	547.0	748.1	969.6	1004.7	2997.1	9310.0	11873.1	11856.2	8065.7
75°	279.1	295.0	361.6	535.7	728.9	621.6	1443.2	6274.5	7548.1	7497.3	4989.5
77.5°	202.3	210.2	241.8	350.3	521.0	445.3	669.0	3350.8	3757.7	3935.1	2204.9
80°	116.4	123.2	168.4	213.6	352.6	304.0	319.8	1344.9	1386.7	1320.0	689.4
82.5°	57.6	65.5	100.6	145.8	220.4	204.6	146.9	404.6	427.2	415.9	174.0
85°	13.6	17.0	56.5	96.1	107.4	91.5	71.2	118.7	146.9	143.5	66.7
87.5°	1.1	2.3	20.3	17.0	18.1	30.5	24.9	30.5	47.5	44.1	23.7
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°	1671.5	1671.5	1671.5	1671.5	1671.5	1671.5	1671.5	1671.5	1671.5	1671.5	1671.5
2.5°	1686.1	1664.7	1602.5	1541.5	1490.6	1437.5	1388.9	1360.7	1349.4	1336.9	1342.6
5°	1709.9	1657.9	1532.5	1424.0	1317.7	1227.3	1155.0	1108.7	1086.1	1082.7	1077.0
7.5°	1741.5	1652.2	1457.9	1288.3	1149.3	1048.8	966.3	899.6	879.2	861.2	846.5
10°	1779.9	1642.1	1365.2	1145.9	997.9	871.3	762.8	683.7	643.0	631.7	639.7
12.5°	1820.6	1622.9	1268.0	1014.9	844.2	682.6	582.0	542.5	531.2	526.6	527.8
15°	1861.3	1599.1	1166.3	888.3	672.4	544.7	498.4	488.2	483.7	481.4	479.2
17.5°	1898.6	1560.7	1052.1	765.1	544.7	465.6	448.7	439.6	430.6	427.2	421.5
20°	1942.7	1516.6	949.3	627.2	461.1	421.5	401.2	384.2	370.7	361.6	360.5
22.5°	1984.5	1460.1	841.9	519.9	420.4	378.6	345.8	327.7	311.9	300.6	304.0
25°	2007.1	1391.2	745.9	453.2	383.1	335.6	299.5	276.9	259.9	254.3	253.1
27.5°	2007.1	1306.4	652.1	414.8	349.2	297.2	259.9	238.5	227.2	219.2	220.4
30°	1991.3	1212.6	565.1	385.4	319.8	263.3	228.3	209.1	200.0	194.4	193.3
32.5°	1978.9	1123.3	490.5	357.1	289.3	233.9	203.4	188.7	179.7	174.0	174.0
35°	1998.1	1046.5	432.8	328.9	261.1	211.3	184.2	170.6	161.6	157.1	156.0
37.5°	2048.9	976.4	388.8	298.4	235.1	192.1	170.6	154.8	145.8	140.1	137.9
40°	2174.4	936.9	356.0	270.1	210.2	176.3	154.8	140.1	128.8	123.2	122.1
42.5°	2375.5	938.0	324.3	244.1	191.0	162.7	141.3	124.3	111.9	106.2	105.1
45°	2678.4	980.9	299.5	219.2	174.0	148.0	126.6	108.5	97.2	91.5	91.5
47.5°	3041.2	1064.6	278.0	197.8	158.2	134.5	111.9	93.8	82.5	78.0	78.0
50°	3434.5	1173.1	256.5	175.2	144.7	119.8	96.1	81.4	72.3	68.9	68.9
52.5°	3835.6	1304.2	235.1	157.1	130.0	104.0	82.5	72.3	64.4	62.2	61.0
55°	4362.3	1471.4	212.5	137.9	114.1	89.3	73.5	63.3	54.2	50.9	49.7
57.5°	5172.6	1723.4	187.6	120.9	93.8	74.6	63.3	53.1	42.9	37.3	36.2
60°	6150.1	2030.8	161.6	106.2	75.7	61.0	50.9	40.7	31.6	24.9	23.7
62.5°	7065.5	2226.3	136.7	89.3	59.9	46.3	36.2	30.5	22.6	15.8	14.7
65°	7470.1	2160.8	113.0	72.3	47.5	32.8	23.7	21.5	13.6	6.8	5.7
66°	7335.6	2063.6	104.0	65.5	42.9	28.3	20.3	18.1	10.2	3.4	3.4
67.5°	6939.0	1834.2	90.4	56.5	37.3	22.6	15.8	13.6	5.7	1.1	0.0
70°	5945.6	1483.9	71.2	41.8	27.1	15.8	9.0	6.8	3.4	0.0	0.0
72.5°	4566.8	1105.3	56.5	31.6	19.2	9.0	4.5	2.3	3.4	0.0	0.0
75°	2798.2	631.7	44.1	23.7	12.4	5.7	3.4	0.0	3.4	1.1	0.0
77.5°	1242.0	283.7	29.4	15.8	9.0	4.5	2.3	0.0	2.3	1.1	0.0
80°	314.2	92.7	17.0	11.3	6.8	3.4	1.1	0.0	2.3	2.3	1.1
82.5°	85.9	33.9	12.4	9.0	5.7	3.4	1.1	0.0	2.3	2.3	2.3
85°	33.9	15.8	11.3	9.0	6.8	3.4	1.1	0.0	2.3	2.3	2.3
87.5°	15.8	11.3	11.3	10.2	7.9	3.4	1.1	0.0	2.3	1.1	2.3
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)