

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: P528922

Luminaire Tested: **GALN-SA4A-735-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528922
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-735-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14712 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

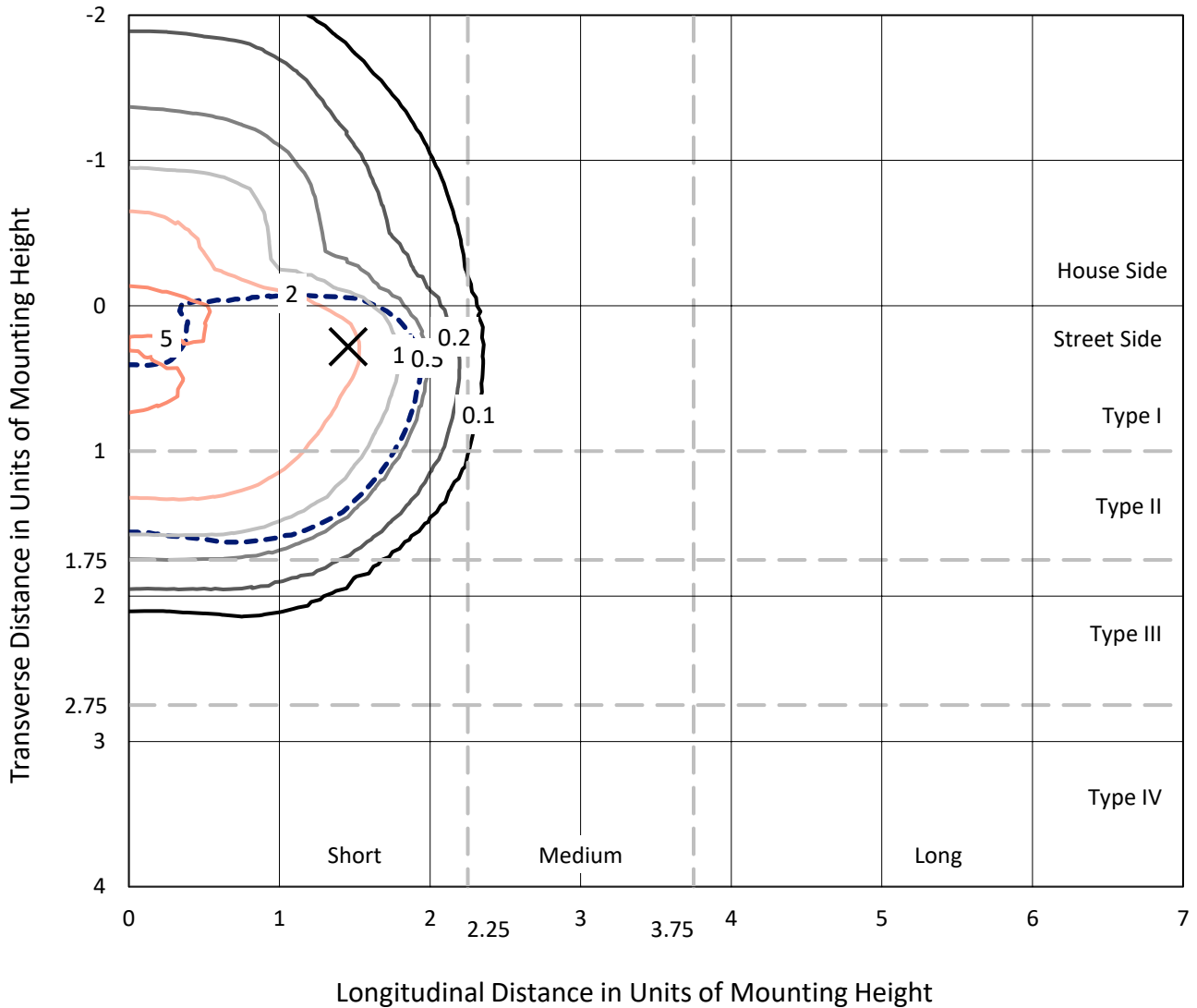
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

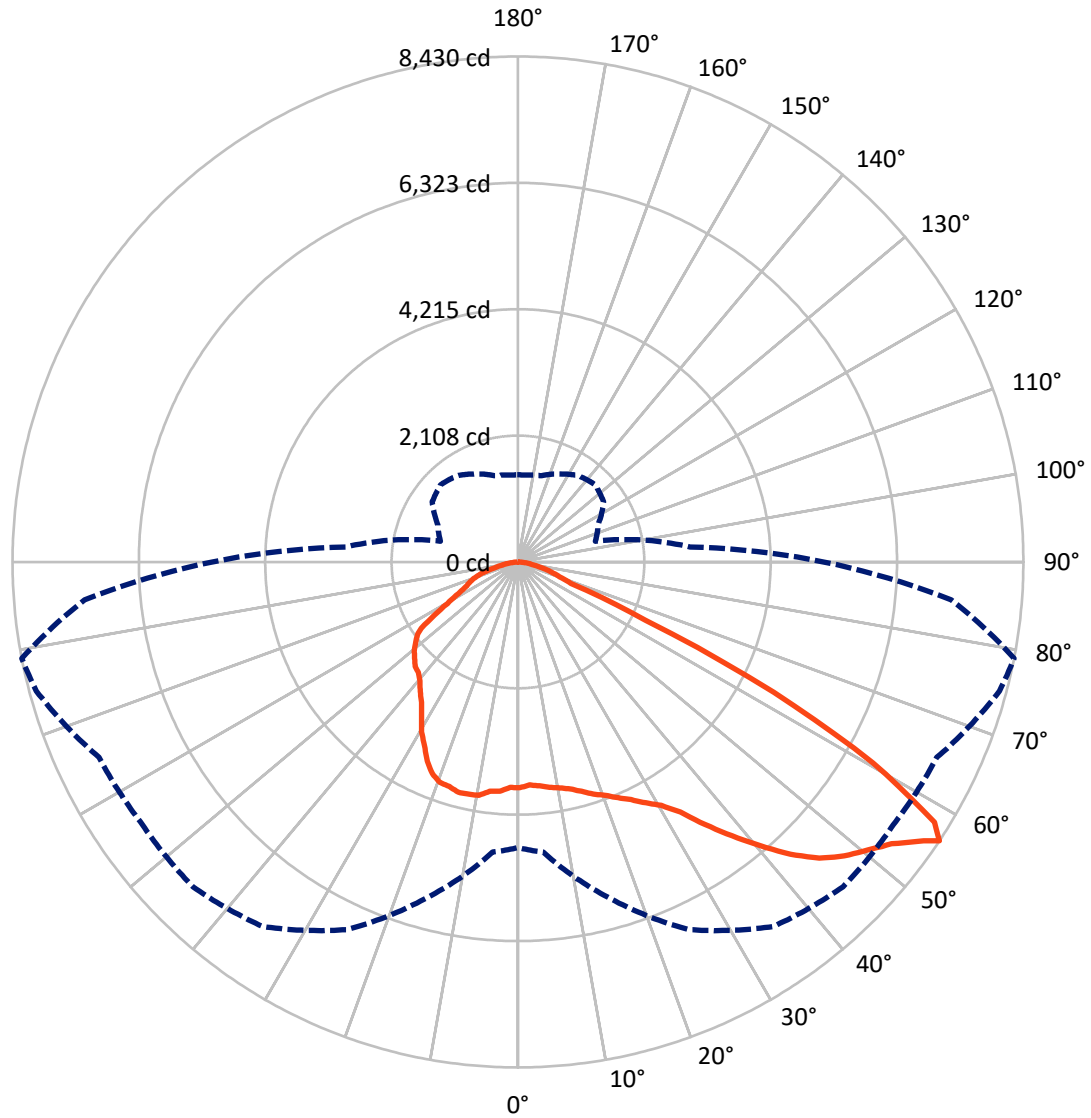
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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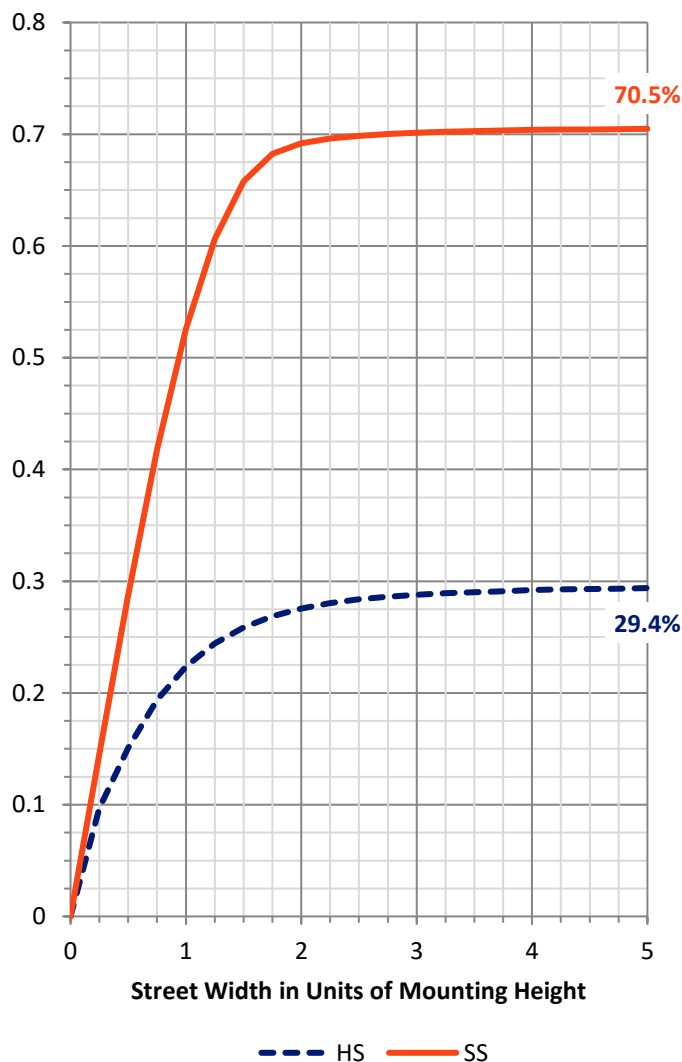
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4344.8	0.0	4344.8
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	10367.2	0.0	10367.2
	% Fixture	70.5	0.0	70.5
Total	Lumens	14712.0	0.0	14712.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.2	2.3
10°-20°	936.6	6.4
20°-30°	1602.4	10.9
30°-40°	2455.8	16.7
40°-50°	3319.0	22.6
50°-60°	3812.0	25.9
60°-70°	1737.6	11.8
70°-80°	428.4	2.9
80°-90°	77.9	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°	14712.0	100.0
0°-180°	14712.0	100.0

Coefficient of Utilization



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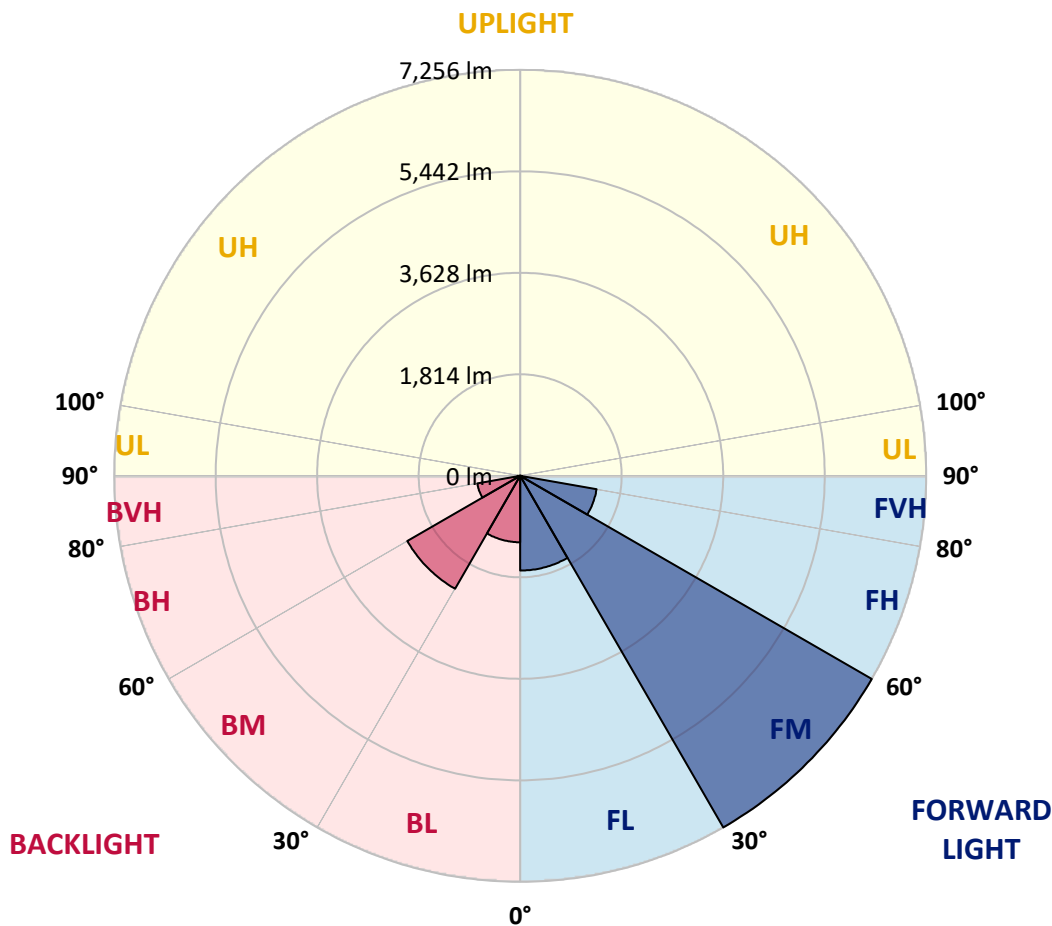
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1692.7	11.5			
FM (30°-60°)	7256.4	49.3			
FH (60°-80°)	1387.0	9.4			G1/1800
FVH (80°-90°)	31.1	0.2			G1/100
BL (0°-30°)	1188.5	8.1	B3/2500		
BM (30°-60°)	2330.5	15.8	B2/2500		
BH (60°-80°)	779.0	5.3	B2/1000		G2/1000
BVH (80°-90°)	46.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3764.2	3764.2	3764.2	3764.2	3764.2	3764.2	3764.2	3764.2	3764.2	3764.2	3764.2
2.5°	3581.0	3571.8	3593.8	3610.3	3630.4	3656.1	3668.9	3676.3	3740.4	3723.9	3773.4
5°	3504.0	3480.2	3496.7	3509.5	3544.3	3575.5	3610.3	3665.3	3723.9	3749.6	3810.0
7.5°	3436.2	3423.3	3419.7	3428.8	3476.5	3516.8	3577.3	3657.9	3753.2	3795.4	3830.2
10°	3324.4	3306.1	3333.6	3394.0	3406.9	3491.2	3560.8	3676.3	3758.7	3832.0	3934.7
12.5°	3274.9	3256.6	3262.1	3296.9	3386.7	3467.3	3549.8	3679.9	3854.0	3883.3	4020.8
15°	3353.7	3335.4	3340.9	3331.7	3417.9	3460.0	3590.1	3753.2	3920.0	3969.5	4116.1
17.5°	3533.3	3535.1	3511.3	3491.2	3471.0	3560.8	3650.6	3797.2	3945.6	4070.3	4180.2
20°	3876.0	3815.5	3767.9	3654.3	3623.1	3661.6	3775.2	3916.3	4050.1	4152.7	4277.4
22.5°	4139.9	4145.4	4077.6	3890.7	3822.9	3839.4	3936.5	4051.9	4198.6	4271.9	4414.8
25°	4522.9	4484.4	4411.1	4262.7	4110.6	4123.4	4194.9	4299.3	4339.7	4391.0	4546.8
27.5°	4873.0	4884.0	4739.2	4599.9	4411.1	4374.5	4502.8	4521.1	4453.3	4550.4	4603.6
30°	5228.5	5219.3	5124.0	4960.9	4775.8	4783.2	4840.0	4750.2	4656.7	4709.9	4746.5
32.5°	5596.8	5492.4	5488.7	5342.1	5201.0	5133.2	5063.6	5107.5	4962.8	4973.8	4938.9
35°	5891.9	5906.6	5822.3	5717.8	5648.2	5529.0	5338.4	5417.2	5389.8	5376.9	5226.7
37.5°	6106.3	6049.5	6091.7	6056.8	5990.9	5842.4	5644.5	5719.6	5732.5	5794.8	5620.7
40°	6282.2	6258.4	6370.2	6388.5	6342.7	6022.0	5666.5	5890.1	6082.5	6218.1	6011.0
42.5°	6366.6	6417.9	6535.2	6676.3	6573.6	6230.9	5780.1	6020.2	6449.0	6663.4	6381.2
45°	6480.2	6414.2	6588.3	6846.7	6848.5	6406.9	5890.1	6196.1	6734.9	7046.5	6634.1
47.5°	6364.7	6397.7	6577.3	6905.3	6989.6	6592.0	6187.0	6445.4	7050.1	7326.8	6868.7
50°	6106.3	6172.3	6500.3	6841.2	7095.9	6788.1	6527.8	6714.7	7341.5	7552.3	6907.2
52.5°	5836.9	5873.6	6386.7	6890.7	7143.6	7041.0	6984.1	7086.8	7697.0	7807.0	6954.8
55°	5103.9	5278.0	6011.0	6868.7	7376.3	7497.3	7453.3	7603.6	8100.2	8210.2	7215.1
56°	4764.8	4856.5	5785.6	6766.1	7422.1	7664.1	7642.1	7709.9	8314.6	8430.1	7255.4
57.5°	4138.1	4145.4	4933.4	6311.6	7249.9	7713.5	7691.5	7744.7	8272.5	8193.7	6901.7
60°	2589.5	2703.1	3357.4	4854.6	6165.0	7156.4	7281.0	6854.0	6975.0	6808.2	5369.6
62.5°	1341.5	1325.0	1759.3	2838.7	4092.3	5124.0	5239.5	5219.3	5032.4	4788.7	3507.7
65°	668.9	672.6	920.0	1405.6	2096.5	2683.0	3005.5	3040.3	2543.7	2340.3	1664.0
67.5°	485.6	504.0	661.6	859.5	987.8	1105.1	1354.3	1328.7	1006.1	956.6	887.0
70°	377.5	394.0	537.0	656.1	595.6	595.6	648.8	670.7	716.6	736.7	760.5
72.5°	274.9	287.7	410.5	452.7	390.3	419.7	485.6	537.0	584.6	591.9	619.4
75°	188.8	199.8	269.4	249.2	234.6	289.6	355.5	403.2	438.0	456.3	472.8
77.5°	122.8	126.5	153.9	130.1	150.3	186.9	230.9	271.2	306.0	320.7	324.4
80°	55.0	60.5	66.0	82.5	104.5	133.8	164.9	197.9	219.9	225.4	236.4
82.5°	31.2	31.2	40.3	58.6	77.0	97.1	119.1	142.9	168.6	174.1	172.3
85°	16.5	16.5	23.8	34.8	47.6	56.8	55.0	56.8	60.5	69.6	67.8
87.5°	5.5	5.5	7.3	7.3	9.2	11.0	9.2	12.8	16.5	16.5	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°	3764.2	3764.2	3764.2	3764.2	3764.2	3764.2	3764.2	3764.2	3764.2	3764.2	3764.2
2.5°	3758.7	3775.2	3753.2	3800.9	3800.9	3791.7	3745.9	3760.6	3771.5	3771.5	3780.7
5°	3830.2	3824.7	3839.4	3782.5	3747.7	3734.9	3659.8	3623.1	3592.0	3590.1	3562.6
7.5°	3870.5	3855.8	3850.4	3808.2	3654.3	3560.8	3399.5	3306.1	3285.9	3214.4	3241.9
10°	3934.7	3962.1	3934.7	3705.6	3491.2	3276.7	3119.1	2974.4	2917.5	2871.7	2844.2
12.5°	4066.6	4053.8	3894.3	3584.6	3284.1	3029.3	2794.8	2642.6	2585.8	2545.5	2541.9
15°	4178.4	4114.3	3870.5	3394.0	2961.5	2690.3	2497.9	2389.7	2364.1	2367.8	2384.2
17.5°	4216.9	4172.9	3745.9	3196.1	2721.5	2402.6	2312.8	2296.3	2320.1	2347.6	2354.9
20°	4277.4	4207.7	3694.6	2926.7	2424.6	2223.0	2217.5	2276.1	2320.1	2360.4	2365.9
22.5°	4403.8	4227.9	3527.8	2672.0	2221.1	2169.8	2223.0	2272.5	2340.3	2373.3	2343.9
25°	4440.5	4183.9	3293.2	2365.9	2092.9	2136.8	2193.7	2261.5	2309.1	2327.4	2340.3
27.5°	4471.6	4116.1	2976.2	2162.5	2052.5	2135.0	2193.7	2250.5	2276.1	2292.6	2307.3
30°	4559.6	4095.9	2701.3	2026.9	2026.9	2098.4	2173.5	2188.2	2223.0	2243.1	2268.8
32.5°	4603.6	3956.6	2419.1	1940.8	2001.2	2116.7	2122.2	2149.7	2151.5	2168.0	2140.5
35°	4719.0	3857.7	2157.0	1878.4	2012.2	2098.4	2125.8	2109.4	2019.6	1975.6	1984.7
37.5°	4803.3	3808.2	1968.2	1871.1	2014.1	2118.5	2133.2	2008.6	1915.1	1841.8	1860.1
40°	5030.6	3685.4	1825.3	1858.3	2030.6	2140.5	2100.2	1964.6	1796.0	1720.8	1708.0
42.5°	5204.7	3597.4	1735.5	1843.6	2043.4	2171.7	2083.7	1876.6	1704.3	1634.7	1653.0
45°	5406.3	3577.3	1687.9	1847.3	2065.4	2188.2	2063.5	1808.8	1625.5	1598.1	1592.6
47.5°	5477.7	3432.5	1636.5	1816.1	2059.9	2182.7	1995.7	1757.5	1596.2	1599.9	1614.5
50°	5358.6	3284.1	1598.1	1752.0	2023.2	2133.2	1889.4	1689.7	1579.7	1625.5	1651.2
52.5°	5206.5	3132.0	1519.2	1665.9	1948.1	2056.2	1840.0	1686.0	1563.2	1548.6	1554.1
55°	5252.3	3007.3	1409.3	1548.6	1827.1	1913.3	1785.0	1651.2	1522.9	1467.9	1486.3
56°	5103.9	2879.1	1337.8	1475.3	1744.7	1821.6	1757.5	1620.0	1489.9	1453.3	1453.3
57.5°	4684.2	2448.4	1244.4	1358.0	1570.6	1662.2	1704.3	1601.7	1453.3	1389.1	1391.0
60°	3454.5	1741.0	1116.1	1196.7	1301.2	1374.5	1570.6	1550.4	1361.6	1317.7	1301.2
62.5°	2129.5	1271.8	1024.4	1055.6	1108.7	1169.2	1370.8	1403.8	1264.5	1216.9	1205.9
65°	1193.0	973.1	954.8	967.6	993.3	1024.4	1138.1	1211.4	1116.1	1042.8	1039.1
67.5°	872.3	870.5	885.2	896.2	907.2	907.2	934.6	964.0	951.1	892.5	887.0
70°	775.2	780.7	791.7	793.5	797.2	784.4	762.4	753.2	767.9	731.2	723.9
72.5°	639.6	657.9	670.7	672.6	652.4	635.9	606.6	575.4	564.4	557.1	555.3
75°	491.1	504.0	509.5	507.6	500.3	476.5	441.7	410.5	390.3	368.4	379.4
77.5°	331.7	350.0	359.2	359.2	348.2	311.5	295.1	271.2	251.1	227.2	230.9
80°	232.7	245.6	260.2	258.4	240.1	221.7	197.9	175.9	159.4	141.1	139.3
82.5°	174.1	181.4	188.8	185.1	172.3	153.9	137.4	117.3	99.0	86.1	86.1
85°	62.3	67.8	82.5	86.1	93.5	93.5	78.8	66.0	53.1	44.0	44.0
87.5°	18.3	18.3	20.2	20.2	18.3	20.2	16.5	18.3	20.2	12.8	12.8
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)