

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: P528916

Luminaire Tested: **GALN-SA4A-735-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528916
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
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-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14136 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

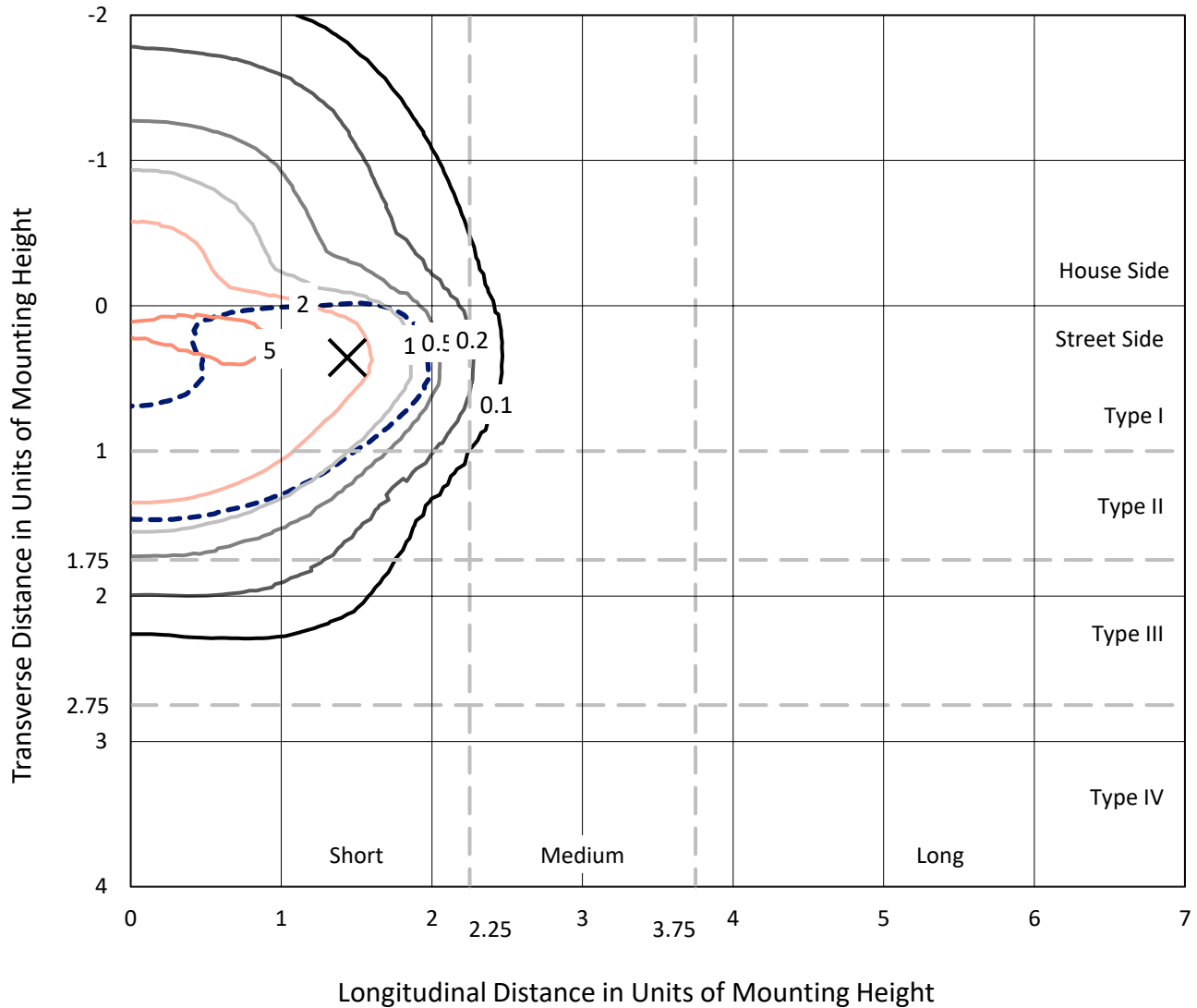
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

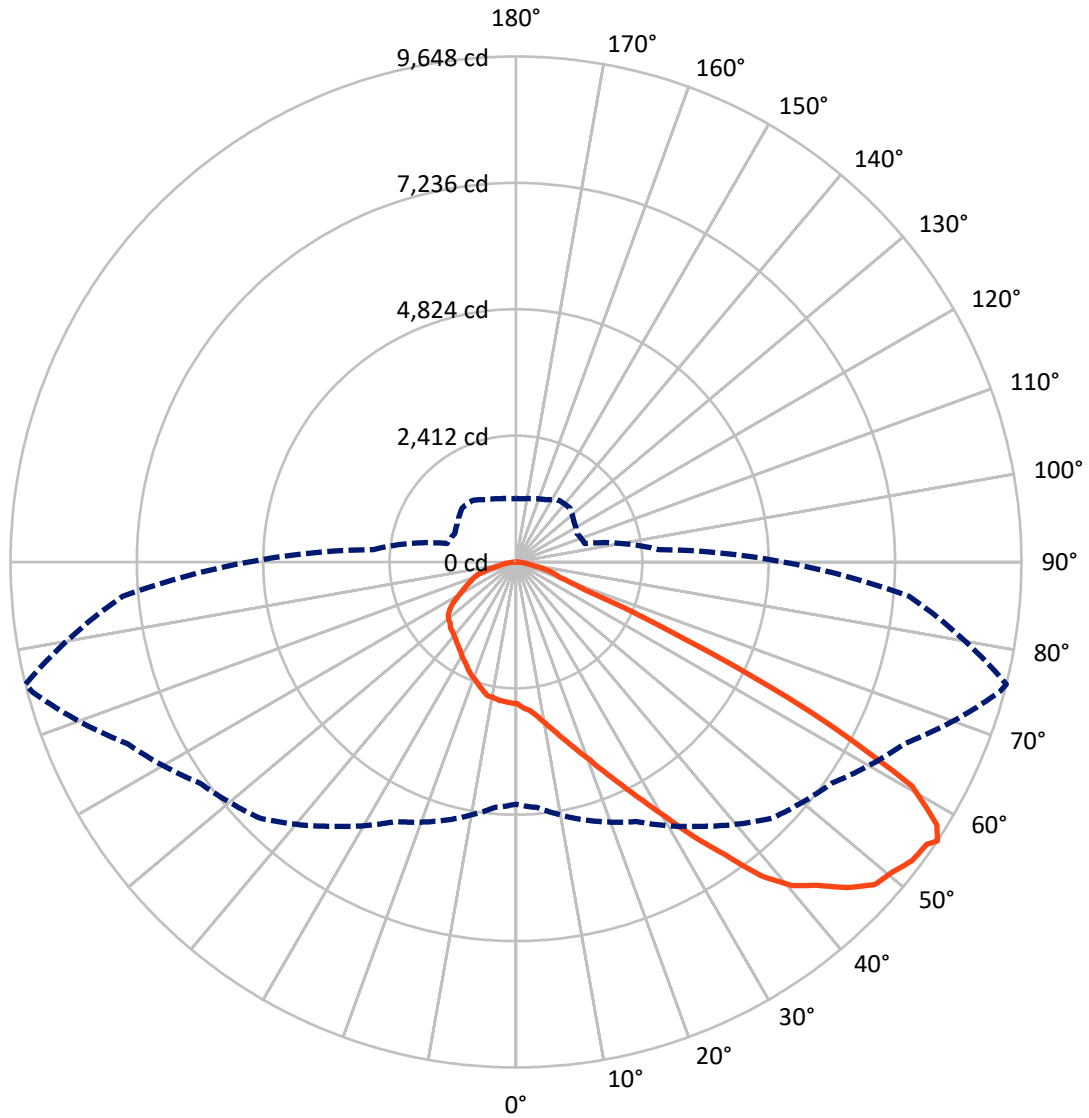
✕ Max cd
 - - - 1/2 Max cd



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 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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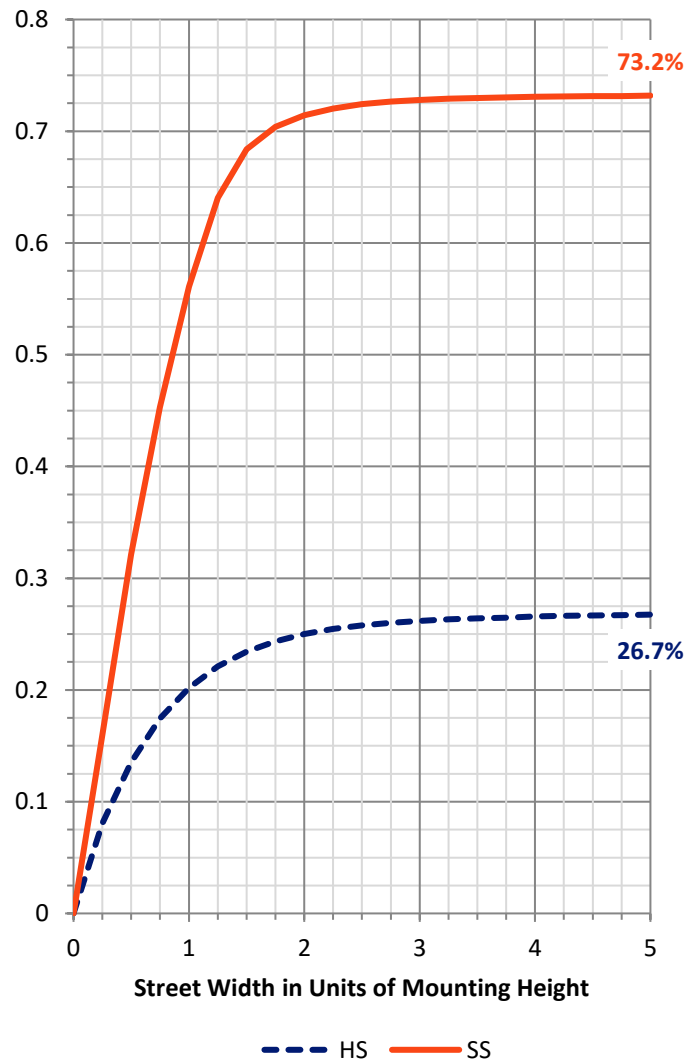
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3800.8	0.0	3800.8
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	10335.2	0.0	10335.2
	% Fixture	73.1	0.0	73.1
Total	Lumens	14136.0	0.0	14136.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.2	1.9
10°-20°	842.6	6.0
20°-30°	1473.6	10.4
30°-40°	2307.2	16.3
40°-50°	3356.3	23.7
50°-60°	3688.8	26.1
60°-70°	1646.5	11.6
70°-80°	475.6	3.4
80°-90°	77.1	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°	14136.0	100.0
0°-180°	14136.0	100.0



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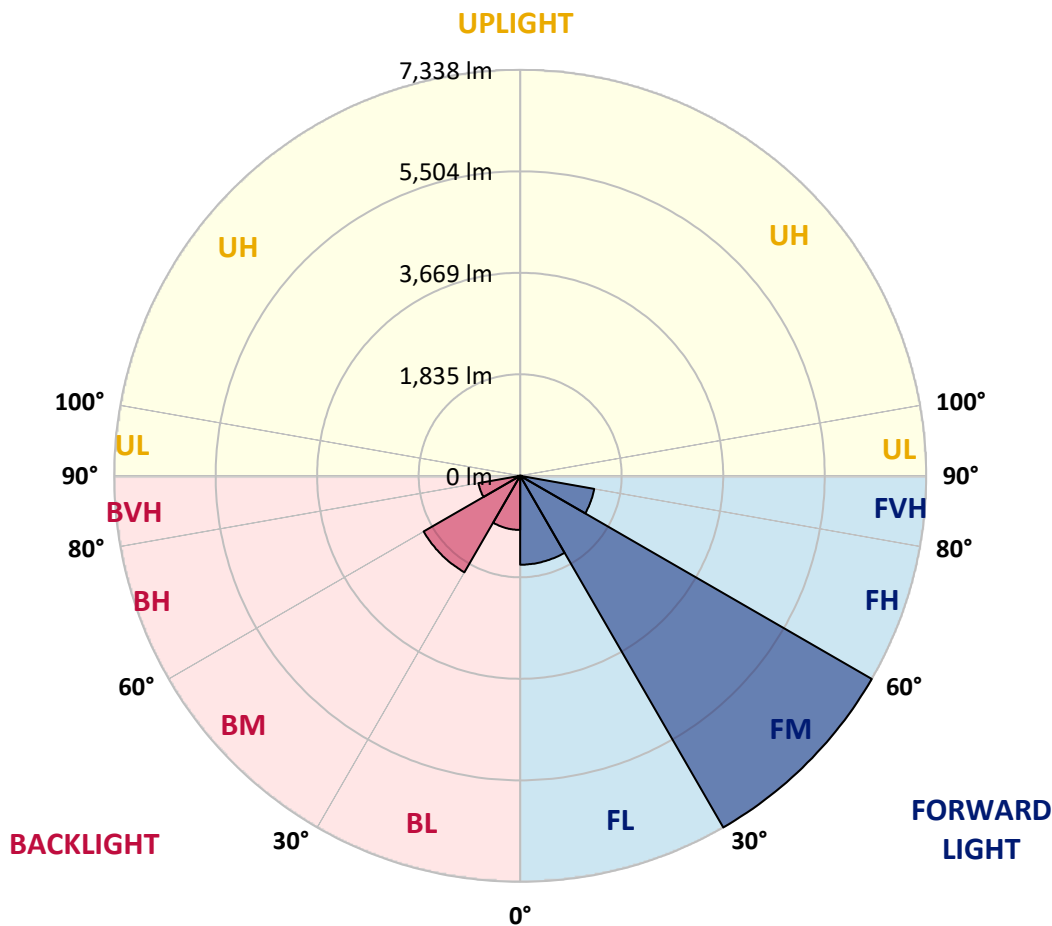
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1606.4	11.4			
FM (30°-60°)	7338.3	51.9			
FH (60°-80°)	1357.4	9.6			G1/1800
FVH (80°-90°)	33.2	0.2			G1/100
BL (0°-30°)	978.0	6.9	B2/1000		
BM (30°-60°)	2014.1	14.2	B2/2500		
BH (60°-80°)	764.7	5.4	B2/1000		G2/1000
BVH (80°-90°)	43.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2704.7	2704.7	2704.7	2704.7	2704.7	2704.7	2704.7	2704.7	2704.7	2704.7	2704.7
2.5°	2979.6	2932.0	2928.3	2915.5	2922.8	2889.8	2855.0	2809.2	2761.5	2790.9	2721.2
5°	3188.5	3124.4	3150.0	3106.1	3111.6	3067.6	2996.1	2943.0	2884.3	2849.5	2800.0
7.5°	3261.8	3267.3	3285.6	3278.3	3241.7	3241.7	3194.0	3100.6	2997.9	2977.8	2895.3
10°	3360.8	3362.6	3342.4	3347.9	3399.3	3375.4	3333.3	3293.0	3161.0	3137.2	2990.6
12.5°	3395.6	3362.6	3395.6	3424.9	3485.4	3518.4	3509.2	3479.9	3338.8	3322.3	3107.9
15°	3401.1	3380.9	3408.4	3474.4	3527.5	3666.8	3736.4	3716.3	3529.4	3531.2	3239.8
17.5°	3375.4	3402.9	3413.9	3470.7	3593.5	3723.6	3925.2	3952.7	3798.7	3774.9	3406.6
20°	3410.2	3390.1	3404.7	3456.1	3619.2	3822.6	4086.4	4267.8	4051.6	4035.1	3578.8
22.5°	3544.0	3516.5	3512.9	3545.9	3663.1	3873.9	4256.9	4583.0	4359.5	4368.6	3793.2
25°	3648.5	3663.1	3650.3	3648.5	3721.8	3950.8	4482.2	4958.7	4777.3	4724.1	4046.1
27.5°	3828.1	3862.9	3837.2	3872.0	3855.5	4066.3	4643.5	5374.7	5228.1	5156.6	4275.2
30°	4077.3	4095.6	4071.8	4071.8	4022.3	4227.5	4790.1	5809.0	5748.5	5651.4	4544.6
32.5°	4405.3	4432.8	4385.1	4357.6	4350.3	4467.6	5054.0	6237.8	6340.4	6257.9	4901.9
35°	4839.6	4823.1	4766.3	4740.6	4641.7	4835.9	5446.1	6730.7	7000.1	6853.5	5334.4
37.5°	5222.6	5196.9	5193.3	5050.3	5074.1	5233.6	5779.6	7104.5	7639.6	7597.5	5790.6
40°	5579.9	5603.7	5642.2	5561.6	5524.9	5700.8	6168.1	7390.4	8136.2	8119.7	6142.5
42.5°	5962.9	5940.9	6008.7	5940.9	5885.9	6135.1	6589.6	7588.3	8572.3	8436.7	6510.8
45°	6518.1	6448.5	6472.3	6477.8	6437.5	6529.1	6763.7	7731.2	8878.4	8863.7	6780.2
47.5°	6981.8	6983.6	6943.3	6912.1	6789.3	6881.0	6957.9	7821.0	9230.2	9206.4	6884.6
50°	7154.0	7130.2	7247.5	7315.3	7322.6	7135.7	7110.0	7870.5	9415.3	9310.8	6989.1
52.5°	6534.6	6556.6	6741.7	7144.8	7377.6	7397.7	7287.8	7973.1	9490.4	9468.4	7073.4
55°	5259.2	5365.5	5669.7	6135.1	6686.7	7293.3	7480.2	8079.4	9530.7	9512.4	7447.2
56°	4623.3	4705.8	5101.6	5466.3	6159.0	6914.0	7359.2	8193.0	9561.9	9648.0	7535.2
57.5°	3721.8	3817.1	4101.1	4515.2	5332.5	6192.0	7025.7	8053.8	9440.9	9473.9	7599.3
60°	2327.3	2336.4	2677.3	2950.3	3525.7	4365.0	5361.8	7007.4	8737.3	8689.6	6826.0
62.5°	1526.5	1528.3	1838.0	2061.5	2323.6	2516.0	3155.5	4647.2	6446.7	6362.4	4859.7
65°	1072.0	1095.8	1335.9	1634.6	1740.9	1640.1	1619.9	2450.0	3600.8	3479.9	2611.3
67.5°	784.3	786.1	998.7	1319.4	1473.3	1247.9	1013.4	1196.6	1425.7	1422.0	1209.4
70°	518.6	540.6	703.7	985.9	1161.8	1002.4	828.3	855.8	907.1	907.1	899.7
72.5°	302.4	322.5	430.6	624.9	652.4	626.7	656.0	733.0	766.0	764.1	755.0
75°	172.3	181.4	205.2	260.2	324.3	383.0	481.9	555.2	588.2	608.4	584.6
77.5°	100.8	106.3	120.9	148.4	168.6	207.1	262.0	313.4	357.3	351.8	355.5
80°	53.1	53.1	67.8	88.0	117.3	146.6	174.1	203.4	227.2	232.7	238.2
82.5°	31.2	33.0	44.0	64.1	84.3	104.5	133.8	153.9	175.9	177.8	181.4
85°	16.5	18.3	27.5	42.1	56.8	64.1	66.0	62.3	67.8	64.1	73.3
87.5°	5.5	5.5	9.2	7.3	7.3	9.2	11.0	11.0	14.7	14.7	14.7
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°	2704.7	2704.7	2704.7	2704.7	2704.7	2704.7	2704.7	2704.7	2704.7	2704.7	2704.7
2.5°	2719.4	2719.4	2688.2	2629.6	2620.4	2596.6	2574.6	2572.8	2556.3	2541.7	2534.3
5°	2770.7	2713.9	2668.1	2615.0	2552.6	2523.3	2490.3	2453.7	2439.0	2453.7	2451.9
7.5°	2829.4	2781.7	2644.3	2545.3	2473.8	2444.5	2407.9	2369.4	2373.1	2373.1	2347.4
10°	2886.2	2822.0	2602.1	2475.7	2371.2	2349.2	2329.1	2343.7	2362.1	2365.7	2349.2
12.5°	2981.4	2836.7	2582.0	2406.0	2340.1	2292.4	2305.3	2345.6	2384.1	2373.1	2385.9
15°	3052.9	2849.5	2490.3	2334.6	2252.1	2274.1	2319.9	2347.4	2411.5	2404.2	2417.0
17.5°	3122.5	2856.8	2400.6	2239.3	2204.5	2264.9	2299.8	2378.6	2398.7	2442.7	2459.2
20°	3265.5	2871.5	2308.9	2180.7	2169.7	2239.3	2299.8	2336.4	2380.4	2418.9	2418.9
22.5°	3338.8	2864.2	2248.5	2103.7	2138.5	2182.5	2237.5	2299.8	2299.8	2336.4	2338.2
25°	3430.4	2834.8	2153.2	2067.0	2092.7	2134.8	2197.1	2175.2	2199.0	2199.0	2228.3
27.5°	3534.9	2772.5	2070.7	2001.1	2052.4	2098.2	2107.4	2092.7	2065.2	2061.5	2050.5
30°	3619.2	2695.6	2010.2	1979.1	2021.2	2046.9	2017.6	1986.4	1938.8	1935.1	1909.4
32.5°	3734.6	2600.3	1935.1	1924.1	1971.7	1973.6	1964.4	1916.8	1847.1	1817.8	1788.5
35°	3928.8	2545.3	1878.3	1894.8	1909.4	1903.9	1887.5	1836.1	1766.5	1753.7	1742.7
37.5°	4071.8	2505.0	1819.7	1839.8	1852.6	1860.0	1810.5	1753.7	1755.5	1729.9	1722.5
40°	4233.0	2479.3	1772.0	1781.2	1783.0	1806.8	1746.4	1718.9	1731.7	1715.2	1726.2
42.5°	4440.1	2486.7	1722.5	1715.2	1750.0	1740.9	1711.5	1674.9	1682.2	1632.7	1640.1
45°	4550.1	2536.2	1693.2	1660.2	1698.7	1696.9	1658.4	1623.6	1579.6	1484.3	1488.0
47.5°	4623.3	2549.0	1623.6	1601.6	1641.9	1665.7	1621.7	1541.1	1478.8	1411.0	1394.5
50°	4698.5	2572.8	1590.6	1544.8	1561.3	1618.1	1563.1	1486.1	1425.7	1365.2	1374.4
52.5°	4764.5	2618.6	1526.5	1458.7	1488.0	1550.3	1521.0	1427.5	1361.5	1312.1	1297.4
55°	5057.6	2721.2	1418.3	1330.4	1400.0	1478.8	1462.3	1348.7	1277.2	1251.6	1247.9
56°	5103.5	2724.9	1361.5	1286.4	1350.5	1455.0	1434.8	1313.9	1249.8	1209.4	1211.3
57.5°	5110.8	2680.9	1280.9	1246.1	1301.1	1420.2	1394.5	1286.4	1198.4	1161.8	1150.8
60°	4496.9	2092.7	1180.1	1158.1	1222.3	1313.9	1304.7	1211.3	1112.3	1070.2	1090.3
62.5°	3065.7	1533.8	1101.3	1097.7	1130.6	1220.4	1196.6	1112.3	1029.9	1002.4	989.5
65°	1784.8	1163.6	1024.4	1009.7	1037.2	1084.8	1101.3	1013.4	927.2	908.9	903.4
67.5°	1053.7	962.1	925.4	901.6	892.4	921.7	934.6	883.3	797.1	771.5	793.5
70°	881.4	855.8	857.6	817.3	795.3	775.1	764.1	718.3	646.9	613.9	604.7
72.5°	760.5	749.5	742.2	705.5	685.3	639.5	591.9	546.1	492.9	465.5	467.3
75°	580.9	577.2	580.9	562.6	527.8	491.1	447.1	388.5	348.2	313.4	320.7
77.5°	346.3	357.3	362.8	355.5	340.8	307.9	280.4	241.9	203.4	175.9	172.3
80°	238.2	247.4	256.5	247.4	232.7	208.9	179.6	150.3	122.8	108.1	104.5
82.5°	181.4	190.6	196.1	186.9	168.6	142.9	122.8	102.6	80.6	66.0	62.3
85°	66.0	75.1	73.3	88.0	95.3	91.6	78.8	60.5	45.8	33.0	31.2
87.5°	18.3	16.5	18.3	18.3	18.3	16.5	14.7	14.7	14.7	9.2	7.3
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)