

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: P528240

Luminaire Tested: **GALN-SA3B-740-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528240
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-SA3B-740-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA 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: 14248 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

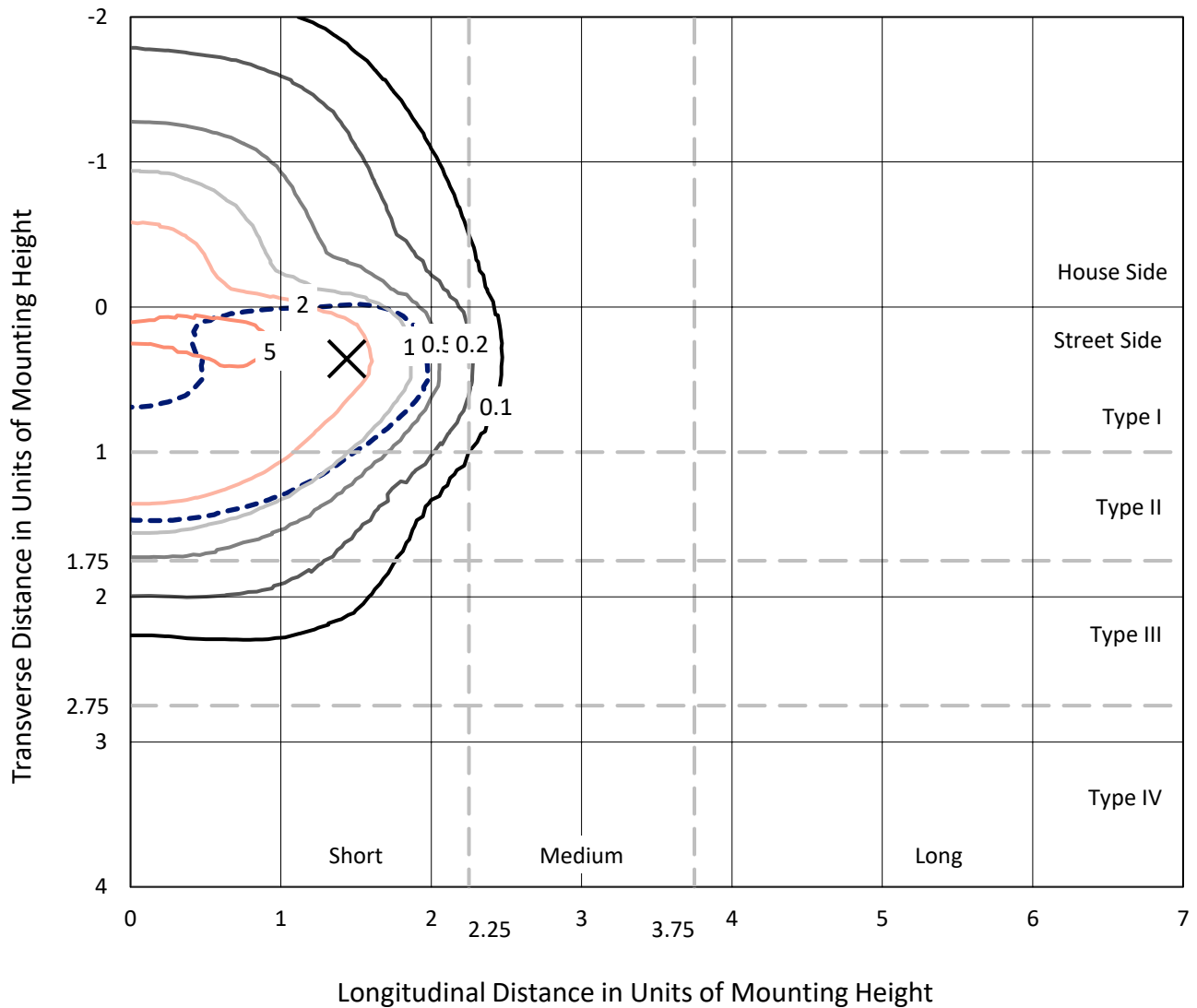
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

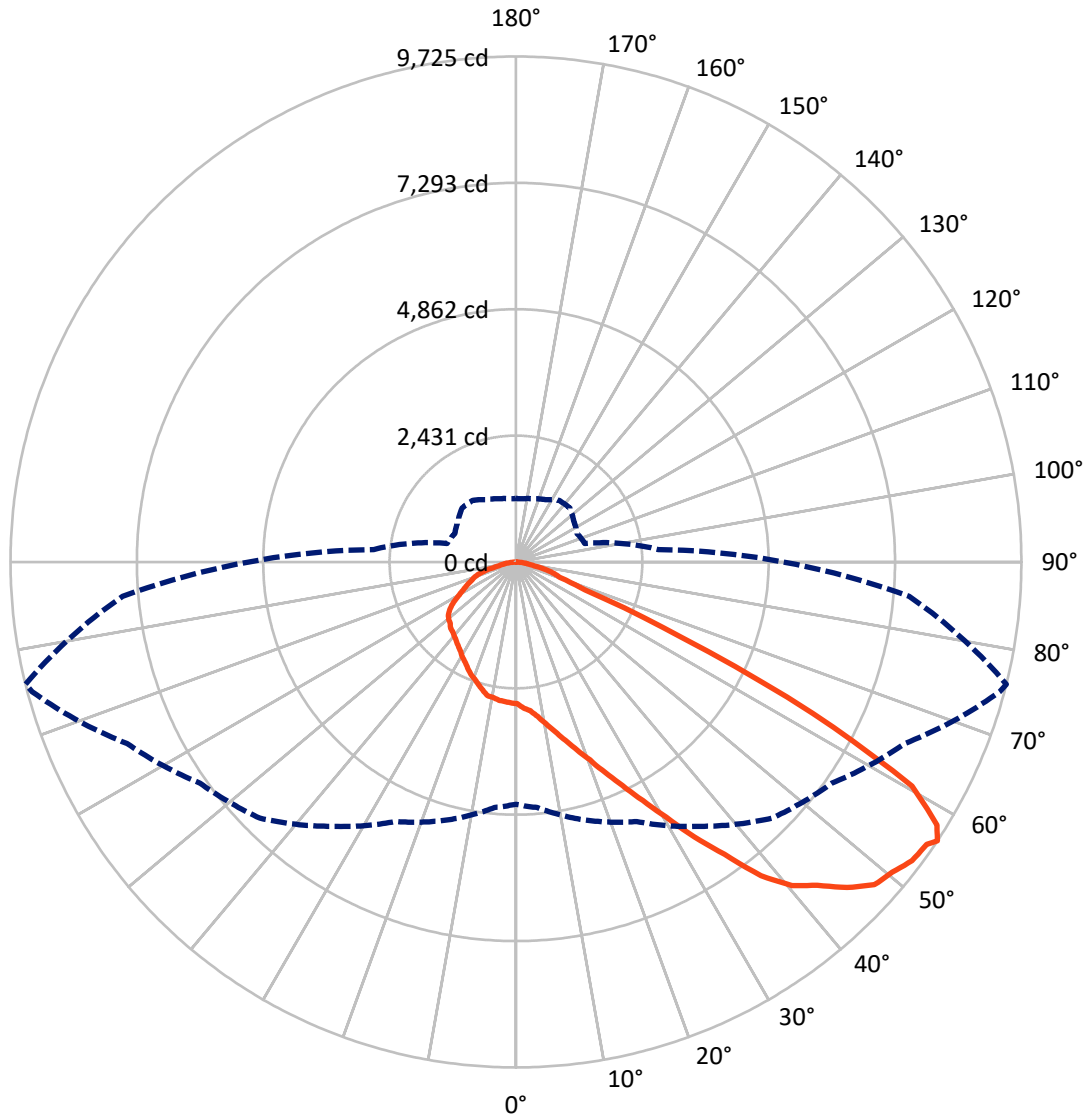
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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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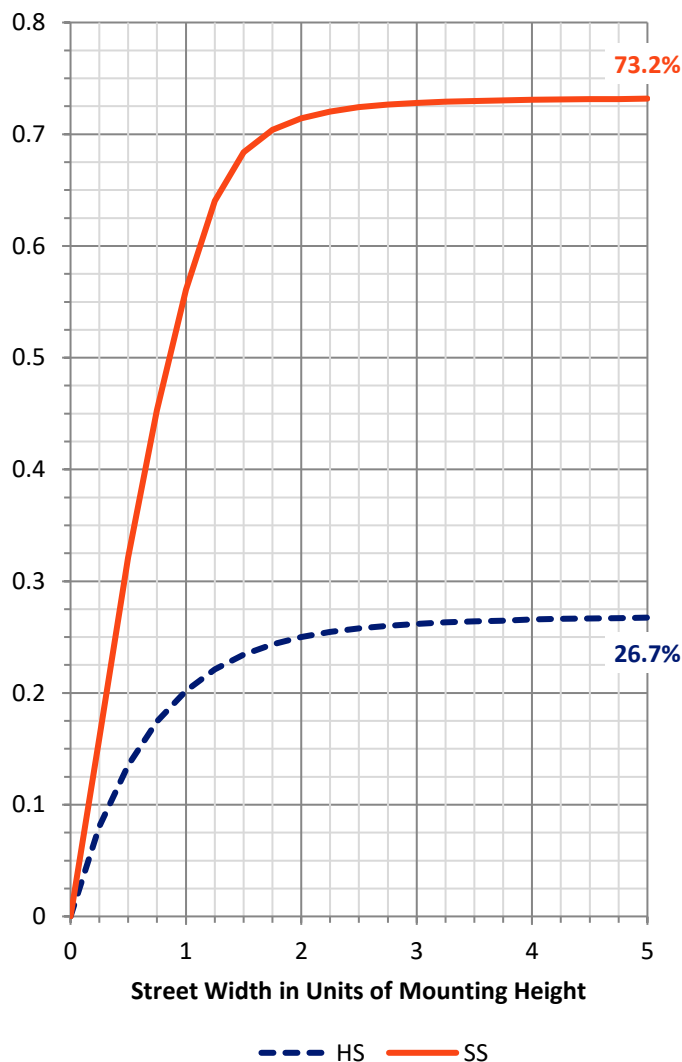
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3830.9	0.0	3830.9
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	10417.1	0.0	10417.1
	% Fixture	73.1	0.0	73.1
Total	Lumens	14248.0	0.0	14248.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.4	1.9
10°-20°	849.3	6.0
20°-30°	1485.3	10.4
30°-40°	2325.5	16.3
40°-50°	3382.9	23.7
50°-60°	3718.0	26.1
60°-70°	1659.6	11.6
70°-80°	479.3	3.4
80°-90°	77.8	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°	14248.0	100.0
0°-180°	14248.0	100.0

Coefficient of Utilization



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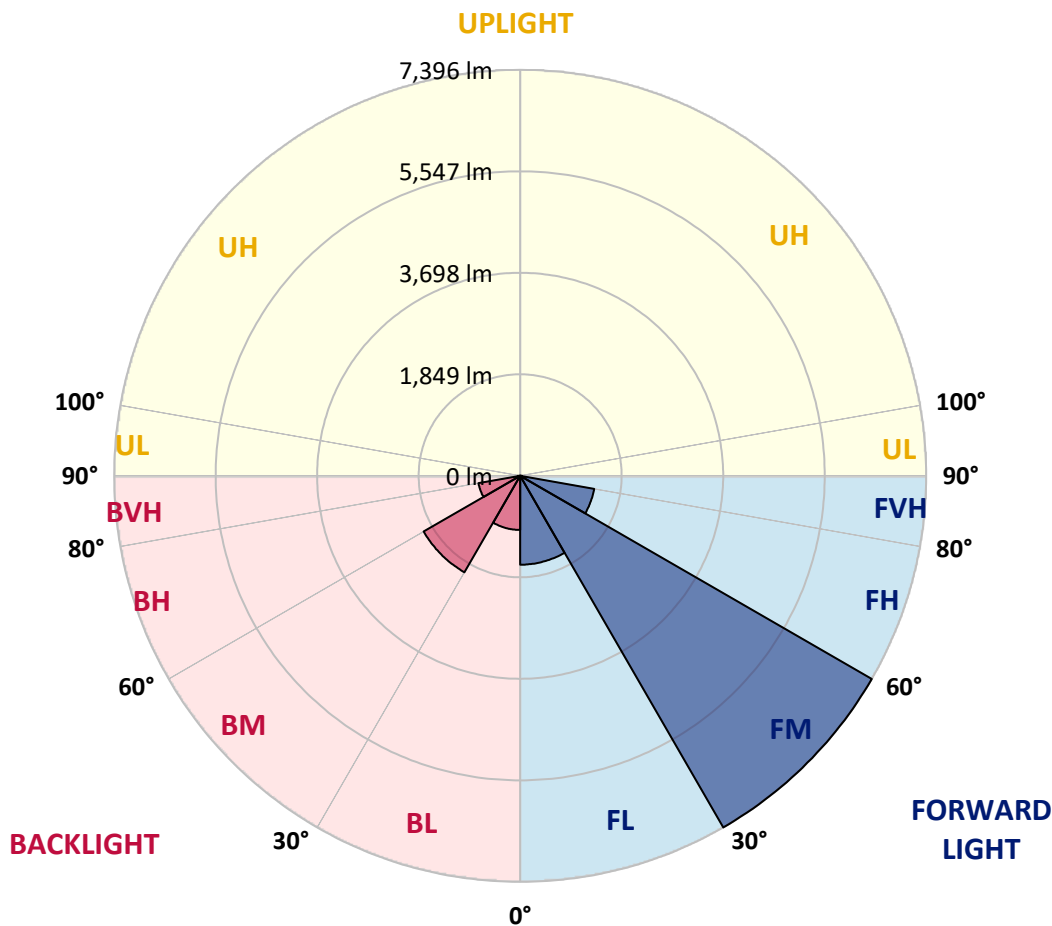
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1619.1	11.4			
FM (30°-60°)	7396.4	51.9			
FH (60°-80°)	1368.1	9.6			G1/1800
FVH (80°-90°)	33.5	0.2			G1/100
BL (0°-30°)	985.8	6.9	B2/1000		
BM (30°-60°)	2030.0	14.2	B2/2500		
BH (60°-80°)	770.8	5.4	B2/1000		G2/1000
BVH (80°-90°)	44.3	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°	2726.2	2726.2	2726.2	2726.2	2726.2	2726.2	2726.2	2726.2	2726.2	2726.2	2726.2
2.5°	3003.2	2955.2	2951.5	2938.6	2946.0	2912.7	2877.6	2831.5	2783.4	2813.0	2742.8
5°	3213.8	3149.1	3175.0	3130.7	3136.2	3091.9	3019.8	2966.3	2907.2	2872.1	2822.2
7.5°	3287.7	3293.2	3311.7	3304.3	3267.3	3267.3	3219.3	3125.1	3021.7	3001.4	2918.3
10°	3387.4	3389.2	3368.9	3374.5	3426.2	3402.2	3359.7	3319.1	3186.1	3162.1	3014.3
12.5°	3422.5	3389.2	3422.5	3452.0	3513.0	3546.2	3537.0	3507.5	3365.2	3348.6	3132.5
15°	3428.0	3407.7	3435.4	3501.9	3555.5	3695.8	3766.0	3745.7	3557.3	3559.2	3265.5
17.5°	3402.2	3429.9	3441.0	3498.2	3622.0	3753.1	3956.3	3984.0	3828.8	3804.8	3433.6
20°	3437.3	3416.9	3431.7	3483.4	3647.8	3852.8	4118.8	4301.7	4083.7	4067.1	3607.2
22.5°	3572.1	3544.4	3540.7	3573.9	3692.2	3904.6	4290.6	4619.3	4394.0	4403.2	3823.3
25°	3677.4	3692.2	3679.2	3677.4	3751.3	3982.1	4517.8	4998.0	4815.1	4761.6	4078.2
27.5°	3858.4	3893.5	3867.6	3902.7	3886.1	4098.5	4680.3	5417.3	5269.5	5197.5	4309.1
30°	4109.6	4128.0	4104.0	4104.0	4054.2	4261.0	4828.1	5855.0	5794.0	5696.1	4580.6
32.5°	4440.2	4467.9	4419.9	4392.2	4384.8	4503.0	5094.0	6287.2	6390.6	6307.5	4940.7
35°	4877.9	4861.3	4804.0	4778.2	4678.5	4874.2	5489.3	6784.0	7055.5	6907.8	5376.6
37.5°	5263.9	5238.1	5234.4	5090.3	5114.3	5275.0	5825.4	7160.8	7700.1	7657.7	5836.5
40°	5624.1	5648.1	5686.9	5605.6	5568.7	5746.0	6217.0	7449.0	8200.7	8184.1	6191.1
42.5°	6010.1	5988.0	6056.3	5988.0	5932.6	6183.8	6641.8	7648.4	8640.3	8503.6	6562.4
45°	6569.8	6499.6	6523.6	6529.1	6488.5	6580.9	6817.3	7792.5	8948.7	8933.9	6833.9
47.5°	7037.1	7038.9	6998.3	6966.9	6843.1	6935.5	7013.1	7883.0	9303.3	9279.3	6939.2
50°	7210.7	7186.7	7304.9	7373.2	7380.6	7192.2	7166.4	7932.9	9489.9	9384.6	7044.5
52.5°	6586.4	6608.6	6795.1	7201.5	7436.0	7456.3	7345.5	8036.3	9565.6	9543.4	7129.4
55°	5300.9	5408.0	5714.6	6183.8	6739.7	7351.1	7539.5	8143.4	9606.2	9587.8	7506.2
56°	4660.0	4743.1	5142.0	5509.6	6207.8	6968.7	7417.6	8257.9	9637.6	9724.5	7594.9
57.5°	3751.3	3847.3	4133.6	4551.0	5374.8	6241.0	7081.4	8117.6	9515.7	9549.0	7659.5
60°	2345.7	2354.9	2698.5	2973.7	3553.6	4399.6	5404.3	7062.9	8806.5	8758.5	6880.1
62.5°	1538.6	1540.4	1852.5	2077.9	2342.0	2535.9	3180.5	4684.0	6497.7	6412.8	4898.2
65°	1080.5	1104.5	1346.5	1647.5	1754.6	1653.1	1632.7	2469.4	3629.4	3507.5	2632.0
67.5°	790.5	792.4	1006.6	1329.8	1485.0	1257.8	1021.4	1206.1	1437.0	1433.3	1219.0
70°	522.7	544.9	709.2	993.7	1171.0	1010.3	834.8	862.5	914.3	914.3	906.9
72.5°	304.8	325.1	434.0	629.8	657.5	631.7	661.2	738.8	772.0	770.2	761.0
75°	173.6	182.9	206.9	262.3	326.9	386.0	485.8	559.6	592.9	613.2	589.2
77.5°	101.6	107.1	121.9	149.6	169.9	208.7	264.1	315.8	360.2	354.6	358.3
80°	53.6	53.6	68.3	88.7	118.2	147.8	175.5	205.0	229.0	234.6	240.1
82.5°	31.4	33.2	44.3	64.6	85.0	105.3	134.8	155.1	177.3	179.2	182.9
85°	16.6	18.5	27.7	42.5	57.3	64.6	66.5	62.8	68.3	64.6	73.9
87.5°	5.5	5.5	9.2	7.4	7.4	9.2	11.1	11.1	14.8	14.8	14.8
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°	2726.2	2726.2	2726.2	2726.2	2726.2	2726.2	2726.2	2726.2	2726.2	2726.2	2726.2
2.5°	2740.9	2740.9	2709.5	2650.4	2641.2	2617.2	2595.0	2593.2	2576.6	2561.8	2554.4
5°	2792.7	2735.4	2689.2	2635.7	2572.9	2543.3	2510.1	2473.1	2458.4	2473.1	2471.3
7.5°	2851.8	2803.7	2665.2	2565.5	2493.4	2463.9	2427.0	2388.2	2391.9	2391.9	2366.0
10°	2909.0	2844.4	2622.7	2495.3	2390.0	2367.9	2347.5	2362.3	2380.8	2384.5	2367.9
12.5°	3005.1	2859.2	2602.4	2425.1	2358.6	2310.6	2323.5	2364.2	2402.9	2391.9	2404.8
15°	3077.1	2872.1	2510.1	2353.1	2270.0	2292.1	2338.3	2366.0	2430.7	2423.3	2436.2
17.5°	3147.3	2879.5	2419.6	2257.0	2221.9	2282.9	2318.0	2397.4	2417.7	2462.1	2478.7
20°	3291.4	2894.2	2327.2	2197.9	2186.8	2257.0	2318.0	2354.9	2399.3	2438.0	2438.0
22.5°	3365.2	2886.9	2266.3	2120.4	2155.4	2199.8	2255.2	2318.0	2318.0	2354.9	2356.8
25°	3457.6	2857.3	2170.2	2083.4	2109.3	2151.8	2214.6	2192.4	2216.4	2216.4	2246.0
27.5°	3562.9	2794.5	2087.1	2016.9	2068.6	2114.8	2124.0	2109.3	2081.6	2077.9	2066.8
30°	3647.8	2716.9	2026.2	1994.8	2037.2	2063.1	2033.5	2002.1	1954.1	1950.4	1924.6
32.5°	3764.2	2620.9	1950.4	1939.3	1987.4	1989.2	1980.0	1932.0	1861.8	1832.2	1802.7
35°	3960.0	2565.5	1893.2	1909.8	1924.6	1919.0	1902.4	1850.7	1780.5	1767.6	1756.5
37.5°	4104.0	2524.8	1834.1	1854.4	1867.3	1874.7	1824.8	1767.6	1769.4	1743.6	1736.2
40°	4266.6	2499.0	1786.0	1795.3	1797.1	1821.1	1760.2	1732.5	1745.4	1728.8	1739.9
42.5°	4475.3	2506.4	1736.2	1728.8	1763.9	1754.6	1725.1	1688.2	1695.5	1645.7	1653.1
45°	4586.1	2556.2	1706.6	1673.4	1712.2	1710.3	1671.5	1636.4	1592.1	1496.1	1499.8
47.5°	4660.0	2569.2	1636.4	1614.3	1654.9	1678.9	1634.6	1553.3	1490.5	1422.2	1405.6
50°	4735.7	2593.2	1603.2	1557.0	1573.6	1630.9	1575.5	1497.9	1437.0	1376.0	1385.2
52.5°	4802.2	2639.4	1538.6	1470.2	1499.8	1562.6	1533.0	1438.8	1372.3	1322.5	1307.7
55°	5097.7	2742.8	1429.6	1340.9	1411.1	1490.5	1473.9	1359.4	1287.4	1261.5	1257.8
56°	5143.9	2746.5	1372.3	1296.6	1361.2	1466.5	1446.2	1324.3	1259.7	1219.0	1220.9
57.5°	5151.3	2702.2	1291.1	1256.0	1311.4	1431.4	1405.6	1296.6	1207.9	1171.0	1159.9
60°	4532.5	2109.3	1189.5	1167.3	1231.9	1324.3	1315.1	1220.9	1121.1	1078.6	1099.0
62.5°	3090.0	1545.9	1110.0	1106.4	1139.6	1230.1	1206.1	1121.1	1038.0	1010.3	997.4
65°	1799.0	1172.8	1032.5	1017.7	1045.4	1093.4	1110.0	1021.4	934.6	916.1	910.6
67.5°	1062.0	969.7	932.7	908.7	899.5	929.0	942.0	890.3	803.4	777.6	799.8
70°	888.4	862.5	864.4	823.8	801.6	781.3	770.2	724.0	652.0	618.7	609.5
72.5°	766.5	755.4	748.0	711.1	690.8	644.6	596.6	550.4	496.8	469.1	471.0
75°	585.5	581.8	585.5	567.0	531.9	495.0	450.7	391.6	350.9	315.8	323.2
77.5°	349.1	360.2	365.7	358.3	343.5	310.3	282.6	243.8	205.0	177.3	173.6
80°	240.1	249.3	258.6	249.3	234.6	210.6	181.0	151.5	123.7	109.0	105.3
82.5°	182.9	192.1	197.6	188.4	169.9	144.1	123.7	103.4	81.3	66.5	62.8
85°	66.5	75.7	73.9	88.7	96.0	92.3	79.4	61.0	46.2	33.2	31.4
87.5°	18.5	16.6	18.5	18.5	18.5	16.6	14.8	14.8	14.8	9.2	7.4
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)