

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: P527778

Luminaire Tested: **GALN-SA2D-740-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527778
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-SA2D-740-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1200mA 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: 13580 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

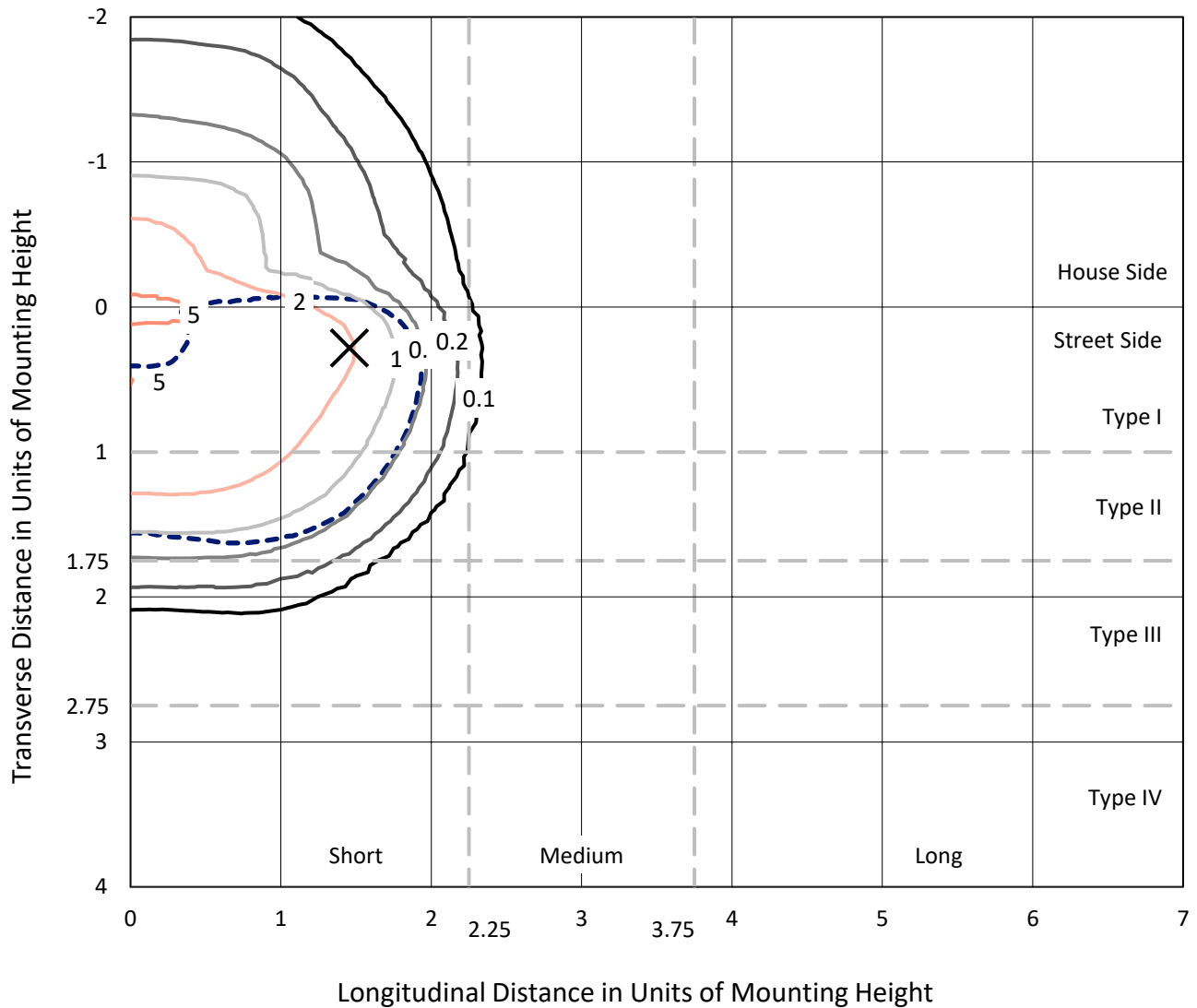
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

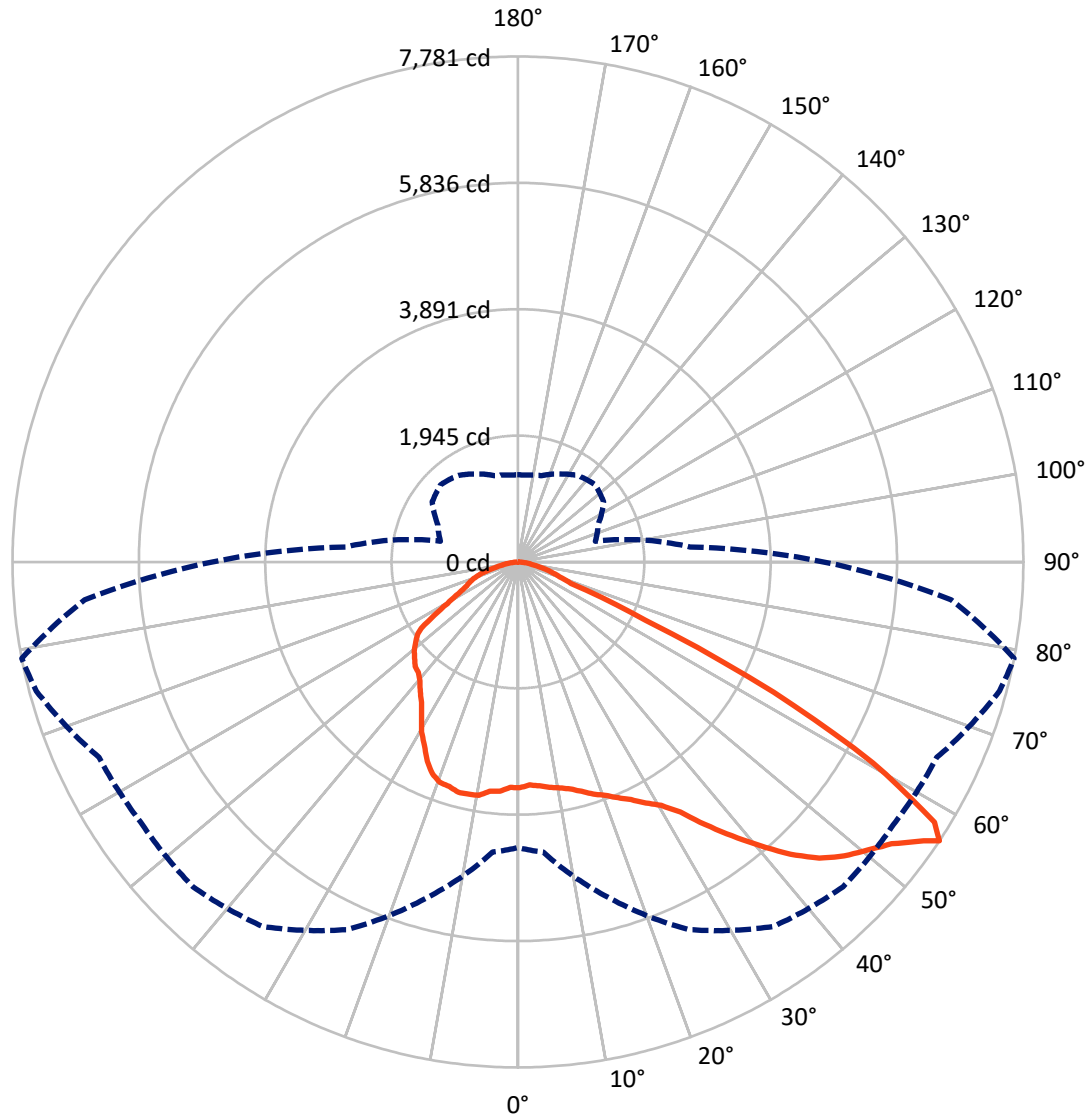
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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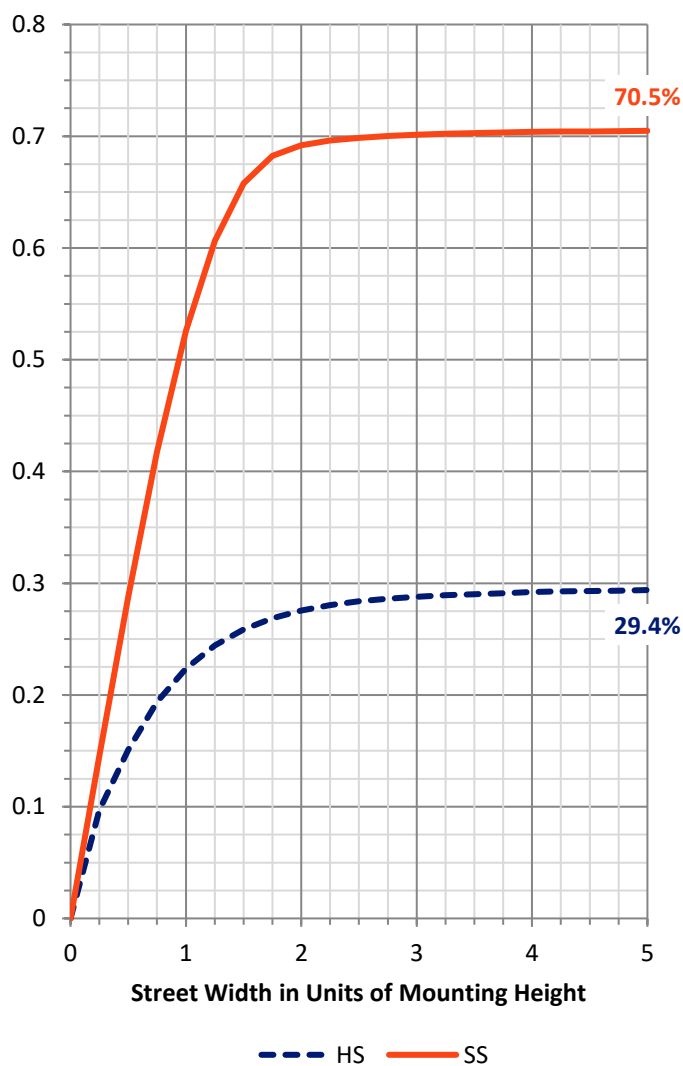
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4010.5	0.0	4010.5
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	9569.5	0.0	9569.5
	% Fixture	70.5	0.0	70.5
Total	Lumens	13580.0	0.0	13580.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.9	2.3
10°-20°	864.6	6.4
20°-30°	1479.1	10.9
30°-40°	2266.9	16.7
40°-50°	3063.7	22.6
50°-60°	3518.7	25.9
60°-70°	1603.9	11.8
70°-80°	395.5	2.9
80°-90°	71.9	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°	13580.0	100.0
0°-180°	13580.0	100.0

Coefficient of Utilization

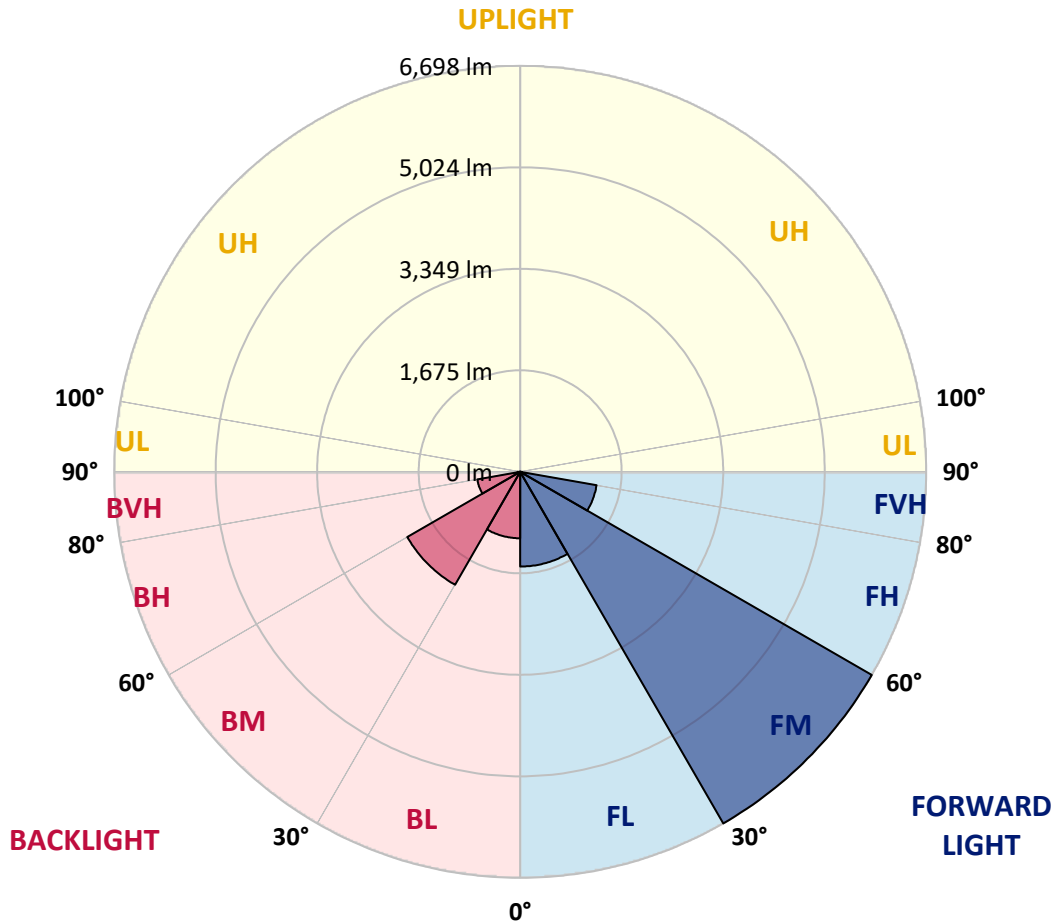


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1562.5	11.5			
FM (30°-60°)	6698.1	49.3			
FH (60°-80°)	1280.3	9.4			G1/1800
FVH (80°-90°)	28.7	0.2			G1/100
BL (0°-30°)	1097.0	8.1	B3/2500		
BM (30°-60°)	2151.2	15.8	B2/2500		
BH (60°-80°)	719.1	5.3	B2/1000		G2/1000
BVH (80°-90°)	43.2	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°	3474.6	3474.6	3474.6	3474.6	3474.6	3474.6	3474.6	3474.6	3474.6	3474.6	3474.6
2.5°	3305.4	3297.0	3317.3	3332.5	3351.1	3374.8	3386.6	3393.4	3452.6	3437.4	3483.0
5°	3234.4	3212.4	3227.6	3239.4	3271.6	3300.3	3332.5	3383.2	3437.4	3461.1	3516.9
7.5°	3171.8	3159.9	3156.6	3165.0	3209.0	3246.2	3302.0	3376.5	3464.4	3503.3	3535.5
10°	3068.6	3051.7	3077.1	3132.9	3144.7	3222.5	3286.8	3393.4	3469.5	3537.2	3631.9
12.5°	3022.9	3006.0	3011.1	3043.2	3126.1	3200.5	3276.7	3396.8	3557.5	3584.5	3711.4
15°	3095.7	3078.7	3083.8	3075.4	3154.9	3193.8	3313.9	3464.4	3618.4	3664.0	3799.4
17.5°	3261.4	3263.1	3241.1	3222.5	3203.9	3286.8	3369.7	3505.0	3642.1	3757.1	3858.6
20°	3577.8	3521.9	3478.0	3373.1	3344.3	3379.9	3484.7	3615.0	3738.5	3833.2	3948.2
22.5°	3821.4	3826.4	3763.9	3591.3	3528.7	3543.9	3633.6	3740.2	3875.5	3943.2	4075.1
25°	4174.9	4139.4	4071.7	3934.7	3794.3	3806.1	3872.1	3968.5	4005.8	4053.1	4196.9
27.5°	4498.0	4508.2	4374.5	4246.0	4071.7	4037.9	4156.3	4173.2	4110.6	4200.3	4249.3
30°	4826.2	4817.7	4729.8	4579.2	4408.4	4415.1	4467.6	4384.7	4298.4	4347.5	4381.3
32.5°	5166.2	5069.8	5066.4	4931.1	4800.8	4738.2	4673.9	4714.5	4580.9	4591.1	4558.9
35°	5438.6	5452.1	5374.3	5277.8	5213.6	5103.6	4927.7	5000.4	4975.0	4963.2	4824.5
37.5°	5636.5	5584.0	5622.9	5590.8	5529.9	5392.9	5210.2	5279.5	5291.4	5348.9	5188.2
40°	5798.9	5776.9	5880.1	5897.0	5854.7	5558.7	5230.5	5436.9	5614.5	5739.7	5548.5
42.5°	5876.7	5924.0	6032.3	6162.6	6067.8	5751.5	5335.4	5557.0	5952.8	6150.7	5890.2
45°	5981.6	5920.7	6081.4	6319.9	6321.6	5913.9	5436.9	5719.4	6216.7	6504.3	6123.7
47.5°	5875.0	5905.4	6071.2	6374.0	6451.8	6084.8	5710.9	5949.4	6507.7	6763.1	6340.2
50°	5636.5	5697.4	6000.2	6314.8	6549.9	6265.8	6025.5	6198.1	6776.6	6971.2	6375.7
52.5°	5387.8	5421.6	5895.3	6360.5	6593.9	6499.2	6446.8	6541.5	7104.8	7206.3	6419.7
55°	4711.2	4871.9	5548.5	6340.2	6808.8	6920.4	6879.8	7018.5	7477.0	7578.5	6659.9
56°	4398.2	4482.8	5340.4	6245.5	6851.1	7074.3	7054.0	7116.6	7674.9	7781.4	6697.1
57.5°	3819.7	3826.4	4553.8	5825.9	6692.0	7120.0	7099.7	7148.8	7636.0	7563.2	6370.6
60°	2390.3	2495.1	3099.0	4481.1	5690.6	6605.8	6720.8	6326.7	6438.3	6284.4	4956.4
62.5°	1238.3	1223.0	1624.0	2620.3	3777.4	4729.8	4836.3	4817.7	4645.2	4420.2	3237.8
65°	617.4	620.8	849.2	1297.5	1935.2	2476.5	2774.3	2806.4	2348.0	2160.2	1536.0
67.5°	448.3	465.2	610.7	793.4	911.8	1020.0	1250.1	1226.4	928.7	883.0	818.7
70°	348.5	363.7	495.6	605.6	549.8	549.8	598.8	619.1	661.4	680.0	702.0
72.5°	253.7	265.6	378.9	417.8	360.3	387.4	448.3	495.6	539.6	546.4	571.8
75°	174.2	184.4	248.7	230.1	216.5	267.3	328.2	372.2	404.3	421.2	436.4
77.5°	113.3	116.7	142.1	120.1	138.7	172.5	213.1	250.4	282.5	296.0	299.4
80°	50.7	55.8	60.9	76.1	96.4	123.5	152.2	182.7	203.0	208.1	218.2
82.5°	28.8	28.8	37.2	54.1	71.0	89.7	110.0	131.9	155.6	160.7	159.0
85°	15.2	15.2	22.0	32.1	44.0	52.4	50.7	52.4	55.8	64.3	62.6
87.5°	5.1	5.1	6.8	6.8	8.5	10.1	8.5	11.8	15.2	15.2	15.2
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°	3474.6	3474.6	3474.6	3474.6	3474.6	3474.6	3474.6	3474.6	3474.6	3474.6	3474.6
2.5°	3469.5	3484.7	3464.4	3508.4	3508.4	3500.0	3457.7	3471.2	3481.4	3481.4	3489.8
5°	3535.5	3530.4	3543.9	3491.5	3459.4	3447.5	3378.2	3344.3	3315.6	3313.9	3288.5
7.5°	3572.7	3559.2	3554.1	3515.2	3373.1	3286.8	3138.0	3051.7	3033.1	2967.1	2992.5
10°	3631.9	3657.3	3631.9	3420.5	3222.5	3024.6	2879.1	2745.5	2693.1	2650.8	2625.4
12.5°	3753.7	3741.9	3594.7	3308.8	3031.4	2796.2	2579.7	2439.3	2386.9	2349.7	2346.3
15°	3856.9	3797.7	3572.7	3132.9	2733.7	2483.3	2305.7	2205.9	2182.2	2185.6	2200.8
17.5°	3892.4	3851.8	3457.7	2950.2	2512.1	2217.7	2134.8	2119.6	2141.6	2167.0	2173.7
20°	3948.2	3884.0	3410.3	2701.5	2238.0	2051.9	2046.9	2101.0	2141.6	2178.8	2183.9
22.5°	4065.0	3902.6	3256.4	2466.4	2050.2	2002.9	2051.9	2097.6	2160.2	2190.6	2163.6
25°	4098.8	3862.0	3039.8	2183.9	1931.8	1972.4	2024.9	2087.5	2131.4	2148.4	2160.2
27.5°	4127.5	3799.4	2747.2	1996.1	1894.6	1970.7	2024.9	2077.3	2101.0	2116.2	2129.7
30°	4208.7	3780.8	2493.4	1870.9	1870.9	1936.9	2006.3	2019.8	2051.9	2070.5	2094.2
32.5°	4249.3	3652.2	2232.9	1791.4	1847.2	1953.8	1958.9	1984.3	1986.0	2001.2	1975.8
35°	4355.9	3560.9	1991.0	1733.9	1857.4	1936.9	1962.3	1947.1	1864.2	1823.6	1832.0
37.5°	4433.7	3515.2	1816.8	1727.1	1859.1	1955.5	1969.0	1854.0	1767.7	1700.1	1717.0
40°	4643.5	3401.8	1684.9	1715.3	1874.3	1975.8	1938.6	1813.4	1657.8	1588.4	1576.6
42.5°	4804.2	3320.6	1602.0	1701.8	1886.2	2004.6	1923.4	1732.2	1573.2	1508.9	1525.8
45°	4990.3	3302.0	1558.0	1705.2	1906.5	2019.8	1904.8	1669.6	1500.5	1475.1	1470.0
47.5°	5056.2	3168.4	1510.6	1676.4	1901.4	2014.7	1842.2	1622.3	1473.4	1476.8	1490.3
50°	4946.3	3031.4	1475.1	1617.2	1867.5	1969.0	1744.1	1559.7	1458.2	1500.5	1524.1
52.5°	4805.9	2891.0	1402.4	1537.7	1798.2	1898.0	1698.4	1556.3	1443.0	1429.4	1434.5
55°	4848.2	2775.9	1300.9	1429.4	1686.5	1766.0	1647.6	1524.1	1405.7	1355.0	1371.9
56°	4711.2	2657.5	1234.9	1361.8	1610.4	1681.5	1622.3	1495.4	1375.3	1341.5	1341.5
57.5°	4323.8	2260.0	1148.6	1253.5	1449.7	1534.3	1573.2	1478.5	1341.5	1282.2	1283.9
60°	3188.7	1607.0	1030.2	1104.6	1201.0	1268.7	1449.7	1431.1	1256.9	1216.3	1201.0
62.5°	1965.7	1174.0	945.6	974.4	1023.4	1079.3	1265.3	1295.8	1167.2	1123.2	1113.1
65°	1101.2	898.2	881.3	893.2	916.9	945.6	1050.5	1118.2	1030.2	962.5	959.1
67.5°	805.2	803.5	817.1	827.2	837.4	837.4	862.7	889.8	877.9	823.8	818.7
70°	715.6	720.6	730.8	732.5	735.9	724.0	703.7	695.3	708.8	675.0	668.2
72.5°	590.4	607.3	619.1	620.8	602.2	587.0	559.9	531.2	521.0	514.3	512.6
75°	453.4	465.2	470.3	468.6	461.8	439.8	407.7	378.9	360.3	340.0	350.2
77.5°	306.2	323.1	331.6	331.6	321.4	287.6	272.4	250.4	231.8	209.8	213.1
80°	214.8	226.7	240.2	238.5	221.6	204.7	182.7	162.4	147.2	130.3	128.6
82.5°	160.7	167.5	174.2	170.9	159.0	142.1	126.9	108.3	91.3	79.5	79.5
85°	57.5	62.6	76.1	79.5	86.3	86.3	72.7	60.9	49.1	40.6	40.6
87.5°	16.9	16.9	18.6	18.6	16.9	18.6	15.2	16.9	18.6	11.8	11.8
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)