

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: P528012

Luminaire Tested: **GALN-SA3A-740-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528012
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-SA3A-740-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 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: 11917 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

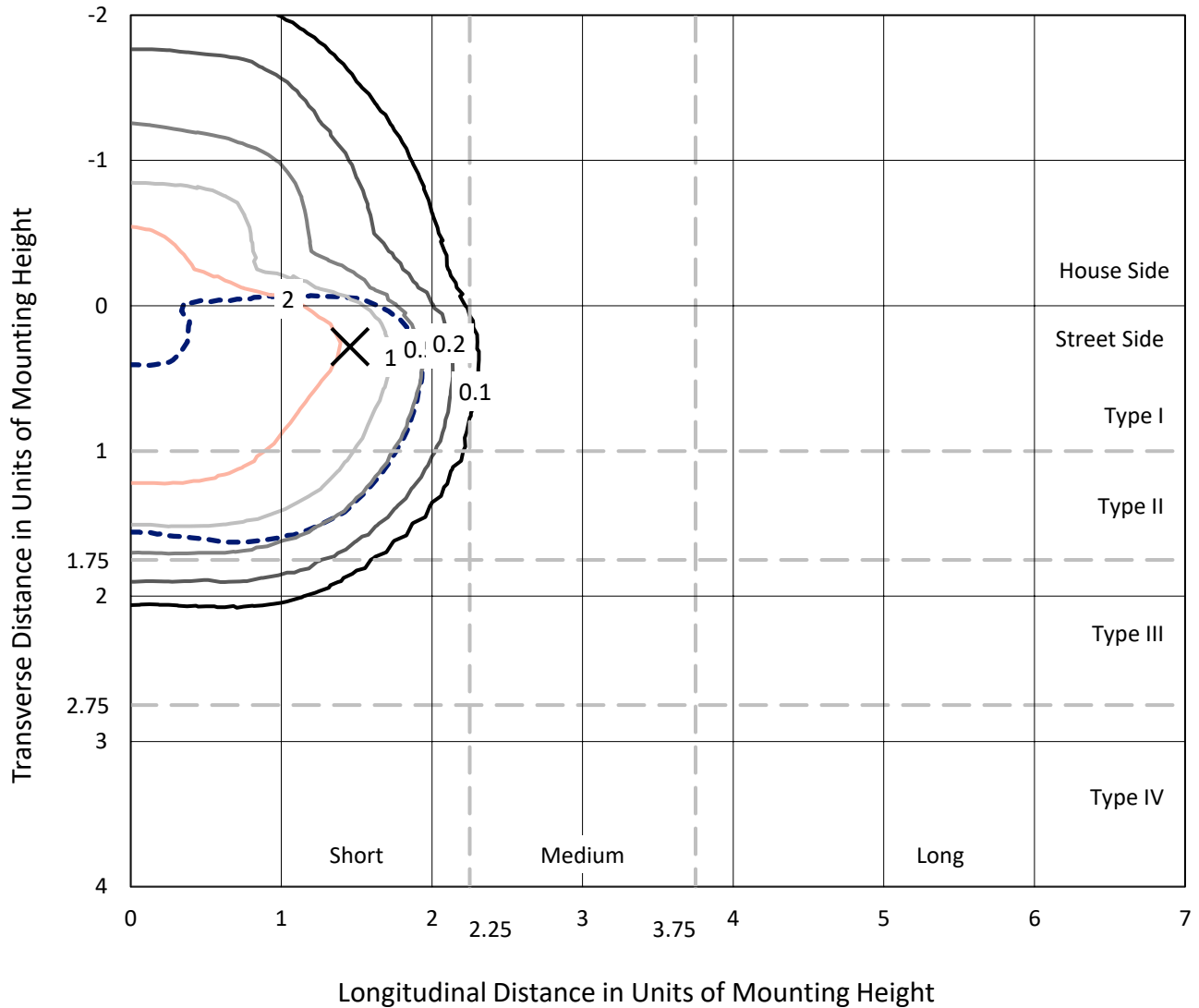
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

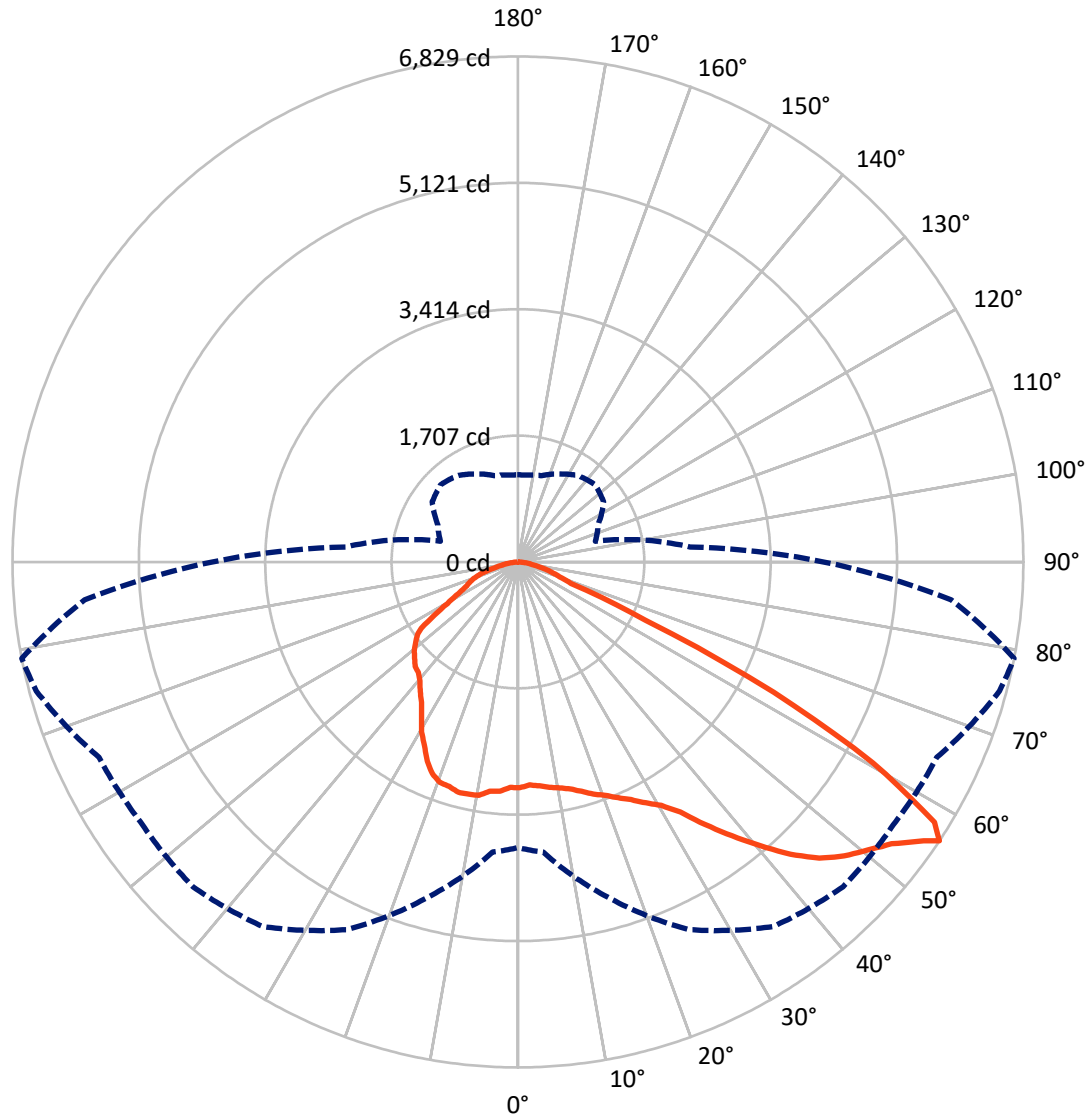
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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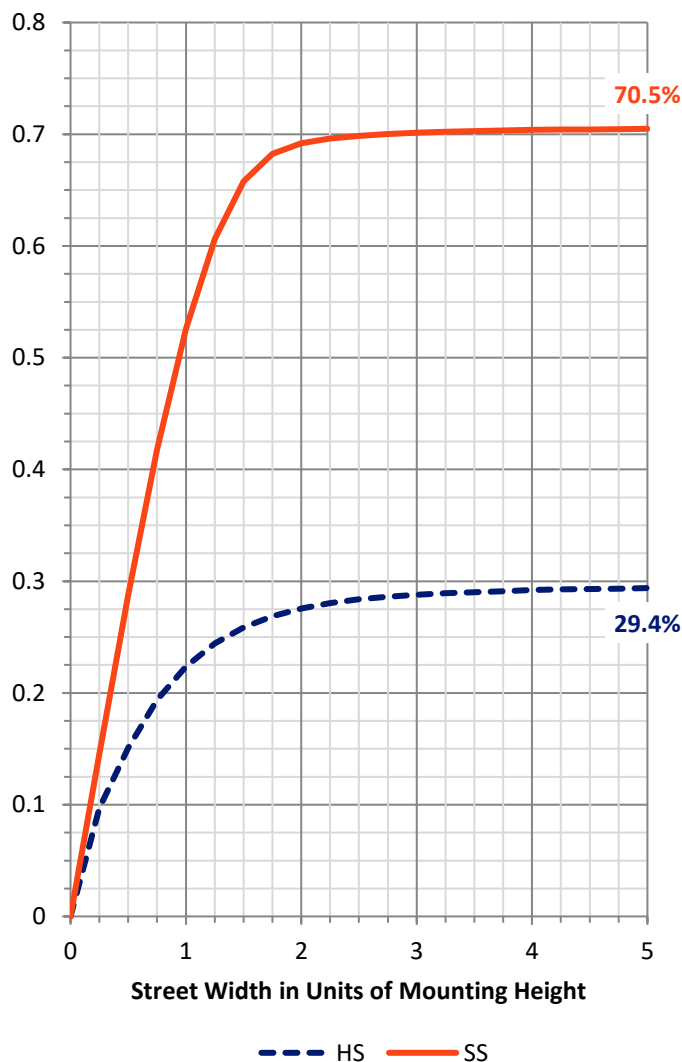
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3519.4	0.0	3519.4
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	8397.6	0.0	8397.6
	% Fixture	70.5	0.0	70.5
Total	Lumens	11917.0	0.0	11917.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.2	2.3
10°-20°	758.7	6.4
20°-30°	1297.9	10.9
30°-40°	1989.3	16.7
40°-50°	2688.5	22.6
50°-60°	3087.8	25.9
60°-70°	1407.5	11.8
70°-80°	347.0	2.9
80°-90°	63.1	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°	11917.0	100.0
0°-180°	11917.0	100.0

Coefficient of Utilization

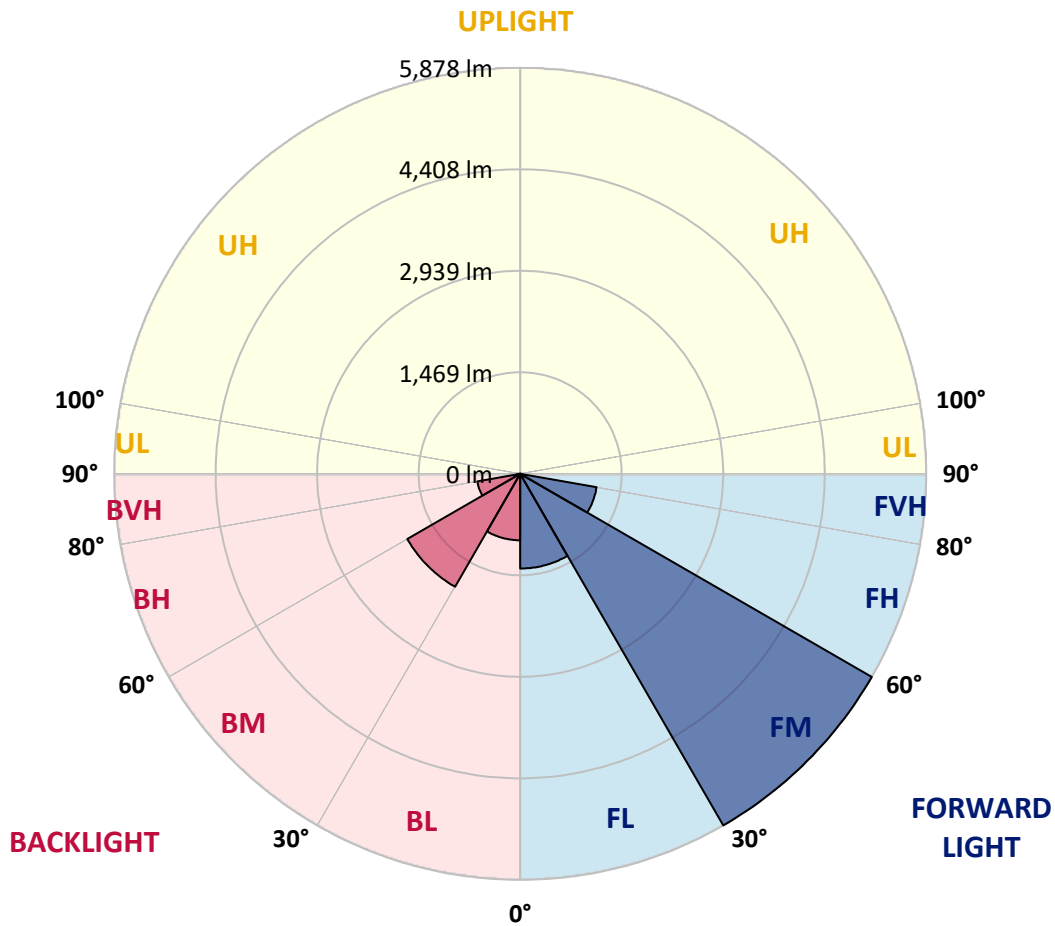


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1371.2	11.5			
FM (30°-60°)	5877.8	49.3			
FH (60°-80°)	1123.5	9.4			G1/1800
FVH (80°-90°)	25.2	0.2			G1/100
BL (0°-30°)	962.7	8.1	B2/1000		
BM (30°-60°)	1887.7	15.8	B2/2500		
BH (60°-80°)	631.0	5.3	B2/1000		G2/1000
BVH (80°-90°)	37.9	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°	79°	85°
0°	3049.1	3049.1	3049.1	3049.1	3049.1	3049.1	3049.1	3049.1	3049.1	3049.1	3049.1
2.5°	2900.6	2893.2	2911.0	2924.4	2940.7	2961.5	2971.9	2977.8	3029.8	3016.4	3056.5
5°	2838.3	2819.0	2832.4	2842.7	2871.0	2896.2	2924.4	2968.9	3016.4	3037.2	3086.2
7.5°	2783.4	2773.0	2770.0	2777.4	2816.0	2848.7	2897.7	2963.0	3040.2	3074.3	3102.5
10°	2692.8	2678.0	2700.2	2749.2	2759.6	2827.9	2884.3	2977.8	3044.6	3104.0	3187.1
12.5°	2652.7	2637.9	2642.3	2670.6	2743.3	2808.6	2875.4	2980.8	3121.8	3145.6	3256.9
15°	2716.6	2701.7	2706.2	2698.8	2768.5	2802.7	2908.1	3040.2	3175.3	3215.3	3334.1
17.5°	2862.0	2863.5	2844.2	2827.9	2811.6	2884.3	2957.1	3075.8	3196.1	3297.0	3386.1
20°	3139.6	3090.7	3052.1	2960.0	2934.8	2966.0	3058.0	3172.3	3280.7	3363.8	3464.7
22.5°	3353.4	3357.9	3302.9	3151.5	3096.6	3110.0	3188.6	3282.1	3400.9	3460.3	3576.1
25°	3663.7	3632.5	3573.1	3452.9	3329.7	3340.0	3397.9	3482.6	3515.2	3556.8	3683.0
27.5°	3947.2	3956.1	3838.8	3726.0	3573.1	3543.4	3647.3	3662.2	3607.2	3685.9	3729.0
30°	4235.2	4227.8	4150.6	4018.4	3868.5	3874.5	3920.5	3847.7	3772.0	3815.1	3844.8
32.5°	4533.6	4448.9	4446.0	4327.2	4212.9	4158.0	4101.6	4137.2	4019.9	4028.8	4000.6
35°	4772.6	4784.4	4716.1	4631.5	4575.1	4478.6	4324.2	4388.1	4365.8	4355.4	4233.7
37.5°	4946.2	4900.2	4934.4	4906.2	4852.7	4732.5	4572.1	4633.0	4643.4	4693.9	4552.9
40°	5088.7	5069.4	5160.0	5174.8	5137.7	4877.9	4590.0	4771.1	4926.9	5036.8	4869.0
42.5°	5157.0	5198.6	5293.6	5407.9	5324.8	5047.2	4682.0	4876.5	5223.8	5397.5	5168.9
45°	5249.1	5195.6	5336.6	5546.0	5547.4	5189.7	4771.1	5019.0	5455.4	5707.8	5373.8
47.5°	5155.5	5182.3	5327.7	5593.5	5661.7	5339.6	5011.5	5220.9	5710.7	5934.9	5563.8
50°	4946.2	4999.7	5265.4	5541.5	5747.8	5498.5	5287.7	5439.1	5946.8	6117.5	5594.9
52.5°	4728.0	4757.7	5173.4	5581.6	5786.4	5703.3	5657.3	5740.4	6234.7	6323.8	5633.5
55°	4134.2	4275.3	4869.0	5563.8	5975.0	6072.9	6037.3	6159.0	6561.3	6650.4	5844.3
56°	3859.6	3933.8	4686.5	5480.6	6012.1	6208.0	6190.2	6245.1	6735.0	6828.5	5877.0
57.5°	3351.9	3357.9	3996.2	5112.5	5872.5	6248.1	6230.3	6273.3	6700.9	6637.0	5590.5
60°	2097.5	2189.6	2719.5	3932.3	4993.7	5796.8	5897.8	5551.9	5649.9	5514.8	4349.5
62.5°	1086.6	1073.3	1425.1	2299.4	3314.8	4150.6	4244.1	4227.8	4076.3	3878.9	2841.3
65°	541.8	544.8	745.2	1138.6	1698.2	2173.3	2434.5	2462.7	2060.4	1895.7	1347.9
67.5°	393.4	408.2	535.9	696.2	800.1	895.1	1097.0	1076.2	815.0	774.9	718.5
70°	305.8	319.2	434.9	531.4	482.5	482.5	525.5	543.3	580.4	596.8	616.1
72.5°	222.7	233.1	332.5	366.7	316.2	339.9	393.4	434.9	473.5	479.5	501.7
75°	152.9	161.8	218.2	201.9	190.0	234.5	288.0	326.6	354.8	369.6	383.0
77.5°	99.5	102.4	124.7	105.4	121.7	151.4	187.0	219.7	247.9	259.8	262.8
80°	44.5	49.0	53.4	66.8	84.6	108.4	133.6	160.3	178.1	182.6	191.5
82.5°	25.2	25.2	32.7	47.5	62.3	78.7	96.5	115.8	136.6	141.0	139.5
85°	13.4	13.4	19.3	28.2	38.6	46.0	44.5	46.0	49.0	56.4	54.9
87.5°	4.5	4.5	5.9	5.9	7.4	8.9	7.4	10.4	13.4	13.4	13.4
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°	3049.1	3049.1	3049.1	3049.1	3049.1	3049.1	3049.1	3049.1	3049.1	3049.1	3049.1
2.5°	3044.6	3058.0	3040.2	3078.8	3078.8	3071.4	3034.2	3046.1	3055.0	3055.0	3062.4
5°	3102.5	3098.1	3110.0	3063.9	3035.7	3025.3	2964.5	2934.8	2909.5	2908.1	2885.8
7.5°	3135.2	3123.3	3118.9	3084.7	2960.0	2884.3	2753.7	2678.0	2661.6	2603.7	2626.0
10°	3187.1	3209.4	3187.1	3001.6	2827.9	2654.2	2526.6	2409.3	2363.3	2326.2	2303.9
12.5°	3294.0	3283.6	3154.5	2903.6	2660.2	2453.8	2263.8	2140.6	2094.6	2061.9	2059.0
15°	3384.6	3332.6	3135.2	2749.2	2398.9	2179.2	2023.3	1935.7	1915.0	1917.9	1931.3
17.5°	3415.8	3380.1	3034.2	2588.9	2204.4	1946.1	1873.4	1860.0	1879.3	1901.6	1907.5
20°	3464.7	3408.3	2992.7	2370.7	1963.9	1800.7	1796.2	1843.7	1879.3	1912.0	1916.4
22.5°	3567.2	3424.7	2857.6	2164.3	1799.2	1757.6	1800.7	1840.7	1895.7	1922.4	1898.6
25°	3596.9	3389.0	2667.6	1916.4	1695.3	1730.9	1776.9	1831.8	1870.4	1885.3	1895.7
27.5°	3622.1	3334.1	2410.8	1751.7	1662.6	1729.4	1776.9	1822.9	1843.7	1857.1	1868.9
30°	3693.3	3317.8	2188.1	1641.8	1641.8	1699.7	1760.6	1772.4	1800.7	1817.0	1837.8
32.5°	3729.0	3205.0	1959.5	1572.0	1621.0	1714.6	1719.0	1741.3	1742.8	1756.1	1733.9
35°	3822.5	3124.8	1747.2	1521.6	1629.9	1699.7	1722.0	1708.6	1635.9	1600.3	1607.7
37.5°	3890.8	3084.7	1594.3	1515.6	1631.4	1716.0	1727.9	1627.0	1551.3	1491.9	1506.7
40°	4074.9	2985.3	1478.5	1505.2	1644.8	1733.9	1701.2	1591.3	1454.8	1393.9	1383.5
42.5°	4215.9	2914.0	1405.8	1493.4	1655.2	1759.1	1687.8	1520.1	1380.6	1324.1	1339.0
45°	4379.2	2897.7	1367.2	1496.3	1673.0	1772.4	1671.5	1465.2	1316.7	1294.5	1290.0
47.5°	4437.1	2780.4	1325.6	1471.1	1668.5	1768.0	1616.6	1423.6	1293.0	1295.9	1307.8
50°	4340.6	2660.2	1294.5	1419.1	1638.8	1727.9	1530.5	1368.7	1279.6	1316.7	1337.5
52.5°	4217.4	2536.9	1230.6	1349.4	1578.0	1665.6	1490.4	1365.7	1266.2	1254.4	1258.8
55°	4254.5	2436.0	1141.6	1254.4	1480.0	1549.8	1445.9	1337.5	1233.6	1189.1	1203.9
56°	4134.2	2332.1	1083.7	1195.0	1413.2	1475.6	1423.6	1312.3	1206.9	1177.2	1177.2
57.5°	3794.3	1983.2	1008.0	1100.0	1272.2	1346.4	1380.6	1297.4	1177.2	1125.2	1126.7
60°	2798.2	1410.2	904.0	969.4	1054.0	1113.3	1272.2	1255.9	1103.0	1067.3	1054.0
62.5°	1724.9	1030.2	829.8	855.1	898.1	947.1	1110.4	1137.1	1024.3	985.7	976.8
65°	966.4	788.3	773.4	783.8	804.6	829.8	921.9	981.2	904.0	844.7	841.7
67.5°	706.6	705.1	717.0	725.9	734.8	734.8	757.1	780.8	770.4	722.9	718.5
70°	627.9	632.4	641.3	642.8	645.7	635.4	617.5	610.1	622.0	592.3	586.4
72.5°	518.1	532.9	543.3	544.8	528.5	515.1	491.4	466.1	457.2	451.3	449.8
75°	397.8	408.2	412.7	411.2	405.3	386.0	357.8	332.5	316.2	298.4	307.3
77.5°	268.7	283.5	291.0	291.0	282.0	252.4	239.0	219.7	203.4	184.1	187.0
80°	188.5	198.9	210.8	209.3	194.5	179.6	160.3	142.5	129.1	114.3	112.8
82.5°	141.0	147.0	152.9	149.9	139.5	124.7	111.3	95.0	80.2	69.8	69.8
85°	50.5	54.9	66.8	69.8	75.7	75.7	63.8	53.4	43.0	35.6	35.6
87.5°	14.8	14.8	16.3	16.3	14.8	16.3	13.4	14.8	16.3	10.4	10.4
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)