

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: P528870

Luminaire Tested: **GALN-SA4A-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528870
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-727-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 13208 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

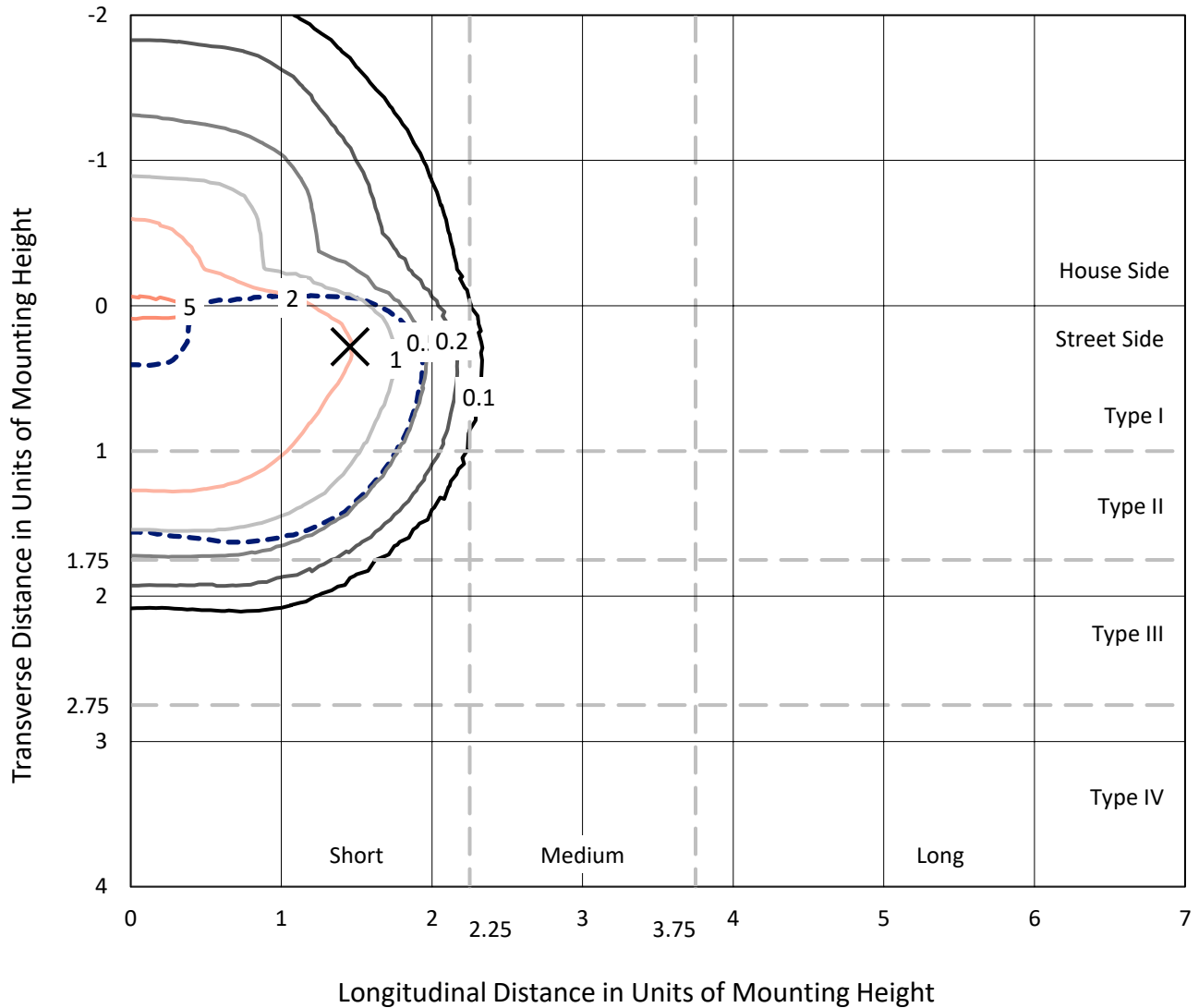
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

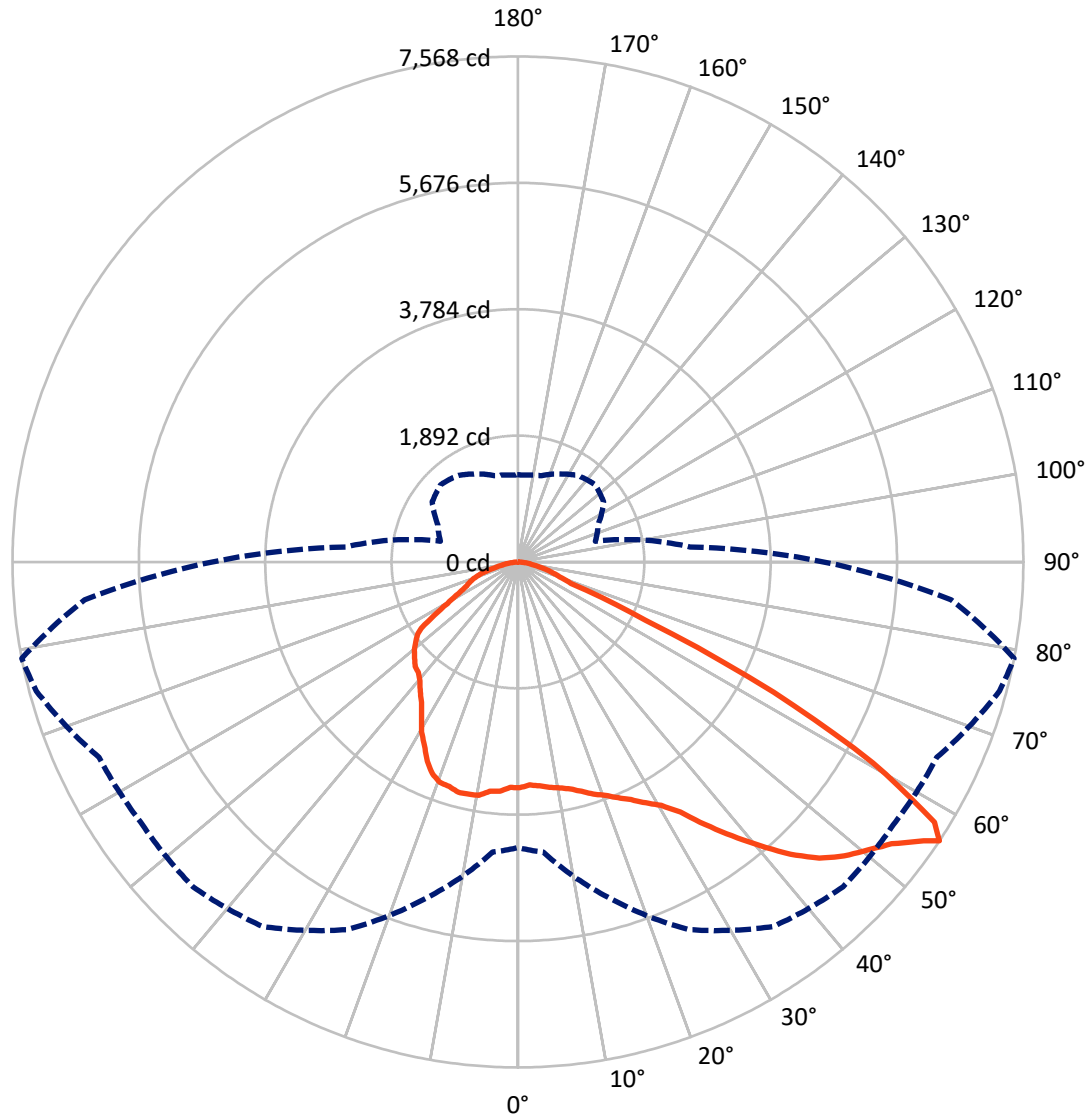
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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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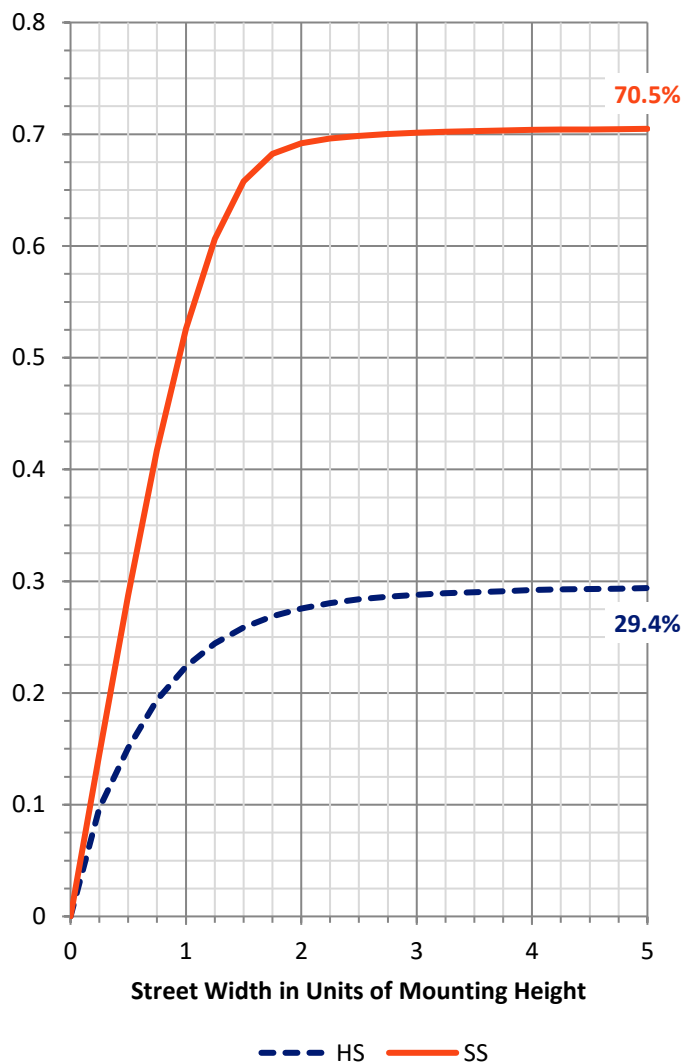
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3900.6	0.0	3900.6
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	9307.4	0.0	9307.4
	% Fixture	70.5	0.0	70.5
Total	Lumens	13208.0	0.0	13208.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.3	2.3
10°-20°	840.9	6.4
20°-30°	1438.6	10.9
30°-40°	2204.8	16.7
40°-50°	2979.7	22.6
50°-60°	3422.3	25.9
60°-70°	1560.0	11.8
70°-80°	384.6	2.9
80°-90°	69.9	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°	13208.0	100.0
0°-180°	13208.0	100.0

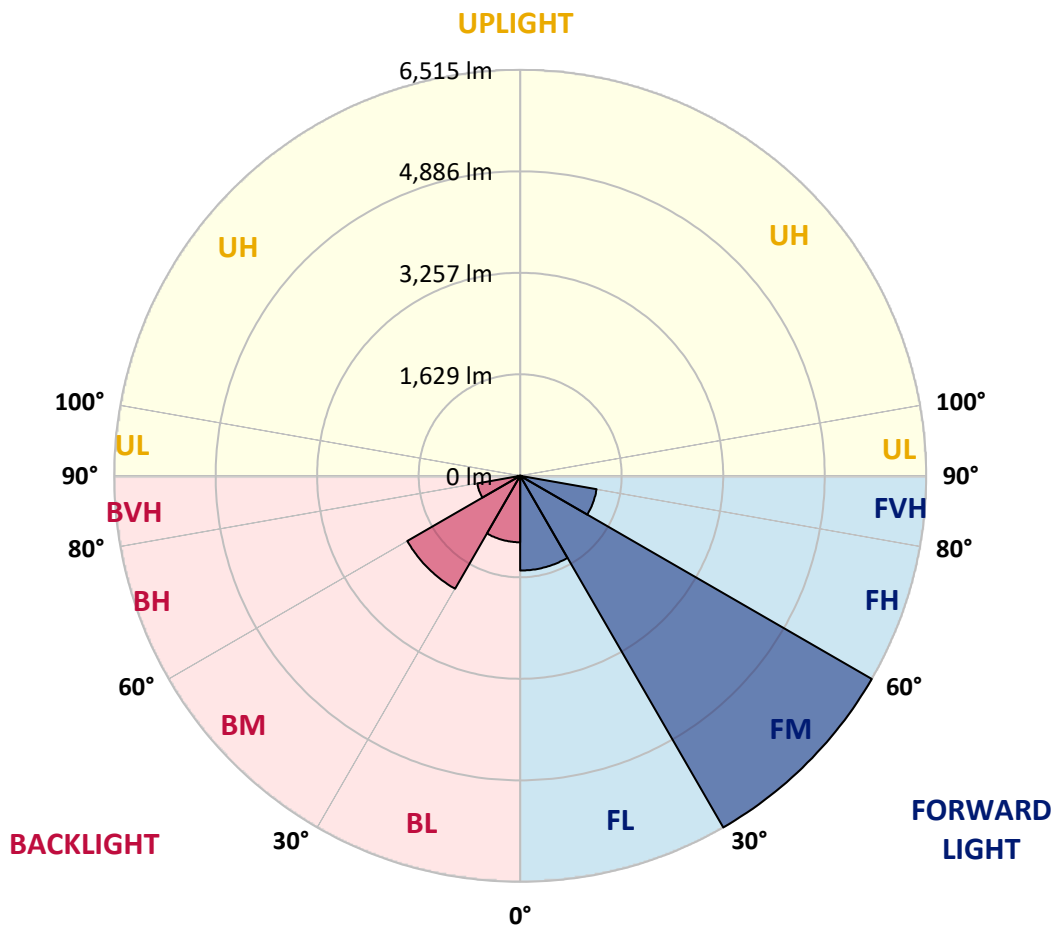


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1519.7	11.5			
FM (30°-60°)	6514.6	49.3			
FH (60°-80°)	1245.2	9.4			G1/1800
FVH (80°-90°)	27.9	0.2			G1/100
BL (0°-30°)	1067.0	8.1	B3/2500		
BM (30°-60°)	2092.2	15.8	B2/2500		
BH (60°-80°)	699.4	5.3	B2/1000		G2/1000
BVH (80°-90°)	42.0	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°	3379.4	3379.4	3379.4	3379.4	3379.4	3379.4	3379.4	3379.4	3379.4	3379.4	3379.4
2.5°	3214.9	3206.6	3226.4	3241.2	3259.3	3282.3	3293.8	3300.4	3358.0	3343.2	3387.6
5°	3145.8	3124.4	3139.2	3150.7	3182.0	3209.9	3241.2	3290.6	3343.2	3366.2	3420.5
7.5°	3084.9	3073.4	3070.1	3078.3	3121.1	3157.3	3211.6	3284.0	3369.5	3407.4	3438.6
10°	2984.5	2968.1	2992.8	3047.1	3058.6	3134.3	3196.8	3300.4	3374.5	3440.3	3532.4
12.5°	2940.1	2923.7	2928.6	2959.9	3040.5	3112.9	3186.9	3303.7	3460.0	3486.3	3609.7
15°	3010.9	2994.4	2999.3	2991.1	3068.4	3106.3	3223.1	3369.5	3519.3	3563.7	3695.3
17.5°	3172.1	3173.7	3152.4	3134.3	3116.2	3196.8	3277.4	3409.0	3542.3	3654.2	3752.9
20°	3479.8	3425.5	3382.7	3280.7	3252.7	3287.3	3389.3	3516.0	3636.1	3728.2	3840.1
22.5°	3716.7	3721.6	3660.7	3492.9	3432.1	3446.9	3534.1	3637.7	3769.3	3835.1	3963.5
25°	4060.5	4026.0	3960.2	3826.9	3690.4	3701.9	3766.0	3859.8	3896.0	3942.1	4081.9
27.5°	4374.8	4384.7	4254.7	4129.7	3960.2	3927.3	4042.5	4058.9	3998.0	4085.2	4132.9
30°	4694.0	4685.8	4600.2	4453.8	4287.6	4294.2	4345.2	4264.6	4180.7	4228.4	4261.3
32.5°	5024.7	4930.9	4927.6	4796.0	4669.3	4608.4	4545.9	4585.4	4455.4	4465.3	4434.0
35°	5289.6	5302.7	5227.1	5133.3	5070.8	4963.8	4792.7	4863.4	4838.8	4827.3	4692.3
37.5°	5482.1	5431.1	5468.9	5437.6	5378.4	5245.2	5067.5	5134.9	5146.4	5202.4	5046.1
40°	5640.0	5618.6	5719.0	5735.4	5694.3	5406.4	5087.2	5287.9	5460.7	5582.4	5396.5
42.5°	5715.7	5761.8	5867.1	5993.8	5901.6	5594.0	5189.2	5404.7	5789.7	5982.2	5728.9
45°	5817.7	5758.5	5914.8	6146.8	6148.4	5751.9	5287.9	5562.7	6046.4	6326.1	5955.9
47.5°	5714.1	5743.7	5904.9	6199.4	6275.1	5918.1	5554.5	5786.4	6329.4	6577.8	6166.5
50°	5482.1	5541.3	5835.8	6141.8	6370.5	6094.1	5860.5	6028.3	6591.0	6780.2	6201.1
52.5°	5240.2	5273.1	5733.8	6186.3	6413.3	6321.2	6270.2	6362.3	6910.2	7008.9	6243.8
55°	4582.1	4738.4	5396.5	6166.5	6622.3	6730.8	6691.4	6826.3	7272.1	7370.9	6477.5
56°	4277.7	4360.0	5194.1	6074.4	6663.4	6880.6	6860.8	6921.7	7464.6	7568.3	6513.7
57.5°	3715.0	3721.6	4429.1	5666.3	6508.7	6925.0	6905.2	6953.0	7426.8	7356.0	6196.1
60°	2324.8	2426.8	3014.2	4358.3	5534.7	6424.8	6536.7	6153.3	6261.9	6112.2	4820.7
62.5°	1204.3	1189.5	1579.5	2548.5	3673.9	4600.2	4703.9	4685.8	4517.9	4299.1	3149.1
65°	600.5	603.8	825.9	1261.9	1882.2	2408.7	2698.3	2729.5	2283.6	2101.0	1493.9
67.5°	436.0	452.5	593.9	771.6	886.8	992.1	1215.9	1192.8	903.3	858.8	796.3
70°	338.9	353.7	482.1	589.0	534.7	534.7	582.4	602.2	643.3	661.4	682.8
72.5°	246.8	258.3	368.5	406.4	350.4	376.8	436.0	482.1	524.8	531.4	556.1
75°	169.5	179.3	241.9	223.8	210.6	260.0	319.2	362.0	393.2	409.7	424.5
77.5°	110.2	113.5	138.2	116.8	134.9	167.8	207.3	243.5	274.8	287.9	291.2
80°	49.4	54.3	59.2	74.0	93.8	120.1	148.1	177.7	197.4	202.4	212.2
82.5°	28.0	28.0	36.2	52.6	69.1	87.2	106.9	128.3	151.4	156.3	154.7
85°	14.8	14.8	21.4	31.3	42.8	51.0	49.4	51.0	54.3	62.5	60.9
87.5°	4.9	4.9	6.6	6.6	8.2	9.9	8.2	11.5	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°	3379.4	3379.4	3379.4	3379.4	3379.4	3379.4	3379.4	3379.4	3379.4	3379.4	3379.4
2.5°	3374.5	3389.3	3369.5	3412.3	3412.3	3404.1	3363.0	3376.1	3386.0	3386.0	3394.2
5°	3438.6	3433.7	3446.9	3395.9	3364.6	3353.1	3285.6	3252.7	3224.7	3223.1	3198.4
7.5°	3474.8	3461.7	3456.7	3418.9	3280.7	3196.8	3052.0	2968.1	2950.0	2885.8	2910.5
10°	3532.4	3557.1	3532.4	3326.8	3134.3	2941.8	2800.3	2670.3	2619.3	2578.2	2553.5
12.5°	3650.9	3639.4	3496.2	3218.2	2948.3	2719.6	2509.1	2372.5	2321.5	2285.3	2282.0
15°	3751.2	3693.7	3474.8	3047.1	2658.8	2415.3	2242.5	2145.4	2122.4	2125.7	2140.5
17.5°	3785.8	3746.3	3363.0	2869.4	2443.2	2157.0	2076.3	2061.5	2082.9	2107.6	2114.2
20°	3840.1	3777.6	3316.9	2627.5	2176.7	1995.7	1990.8	2043.4	2082.9	2119.1	2124.1
22.5°	3953.6	3795.7	3167.2	2398.8	1994.1	1948.0	1995.7	2040.1	2101.0	2130.6	2104.3
25°	3986.5	3756.2	2956.6	2124.1	1878.9	1918.4	1969.4	2030.3	2073.1	2089.5	2101.0
27.5°	4014.5	3695.3	2671.9	1941.4	1842.7	1916.8	1969.4	2020.4	2043.4	2058.2	2071.4
30°	4093.5	3677.2	2425.1	1819.7	1819.7	1883.8	1951.3	1964.5	1995.7	2013.8	2036.9
32.5°	4132.9	3552.2	2171.8	1742.4	1796.6	1900.3	1905.2	1929.9	1931.6	1946.4	1921.7
35°	4236.6	3463.3	1936.5	1686.4	1806.5	1883.8	1908.5	1893.7	1813.1	1773.6	1781.8
37.5°	4312.3	3418.9	1767.0	1679.8	1808.2	1901.9	1915.1	1803.2	1719.3	1653.5	1670.0
40°	4516.3	3308.7	1638.7	1668.3	1823.0	1921.7	1885.5	1763.7	1612.4	1544.9	1533.4
42.5°	4672.6	3229.7	1558.1	1655.2	1834.5	1949.7	1870.7	1684.8	1530.1	1467.6	1484.0
45°	4853.6	3211.6	1515.3	1658.4	1854.2	1964.5	1852.6	1623.9	1459.4	1434.7	1429.7
47.5°	4917.7	3081.6	1469.2	1630.5	1849.3	1959.5	1791.7	1577.8	1433.0	1436.3	1449.5
50°	4810.8	2948.3	1434.7	1572.9	1816.4	1915.1	1696.3	1516.9	1418.2	1459.4	1482.4
52.5°	4674.2	2811.8	1363.9	1495.6	1748.9	1846.0	1651.9	1513.7	1403.4	1390.3	1395.2
55°	4715.4	2699.9	1265.2	1390.3	1640.3	1717.7	1602.5	1482.4	1367.2	1317.9	1334.3
56°	4582.1	2584.7	1201.1	1324.5	1566.3	1635.4	1577.8	1454.4	1337.6	1304.7	1304.7
57.5°	4205.3	2198.1	1117.1	1219.2	1410.0	1492.3	1530.1	1438.0	1304.7	1247.1	1248.8
60°	3101.4	1563.0	1002.0	1074.4	1168.1	1234.0	1410.0	1391.9	1222.4	1183.0	1168.1
62.5°	1911.8	1141.8	919.7	947.7	995.4	1049.7	1230.7	1260.3	1135.2	1092.5	1082.6
65°	1071.1	873.6	857.2	868.7	891.7	919.7	1021.7	1087.5	1002.0	936.2	932.9
67.5°	783.2	781.5	794.7	804.5	814.4	814.4	839.1	865.4	853.9	801.3	796.3
70°	696.0	700.9	710.8	712.4	715.7	704.2	684.4	676.2	689.4	656.5	649.9
72.5°	574.2	590.7	602.2	603.8	585.7	570.9	544.6	516.6	506.7	500.2	498.5
75°	440.9	452.5	457.4	455.7	449.2	427.8	396.5	368.5	350.4	330.7	340.6
77.5°	297.8	314.2	322.5	322.5	312.6	279.7	264.9	243.5	225.4	204.0	207.3
80°	209.0	220.5	233.6	232.0	215.5	199.1	177.7	157.9	143.1	126.7	125.0
82.5°	156.3	162.9	169.5	166.2	154.7	138.2	123.4	105.3	88.8	77.3	77.3
85°	55.9	60.9	74.0	77.3	83.9	83.9	70.7	59.2	47.7	39.5	39.5
87.5°	16.5	16.5	18.1	18.1	16.5	18.1	14.8	16.5	18.1	11.5	11.5
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)