

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: P652305

Luminaire Tested: **GALN-SA3B-840-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652305
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-SA3B-840-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 800mA 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: 12470.3 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

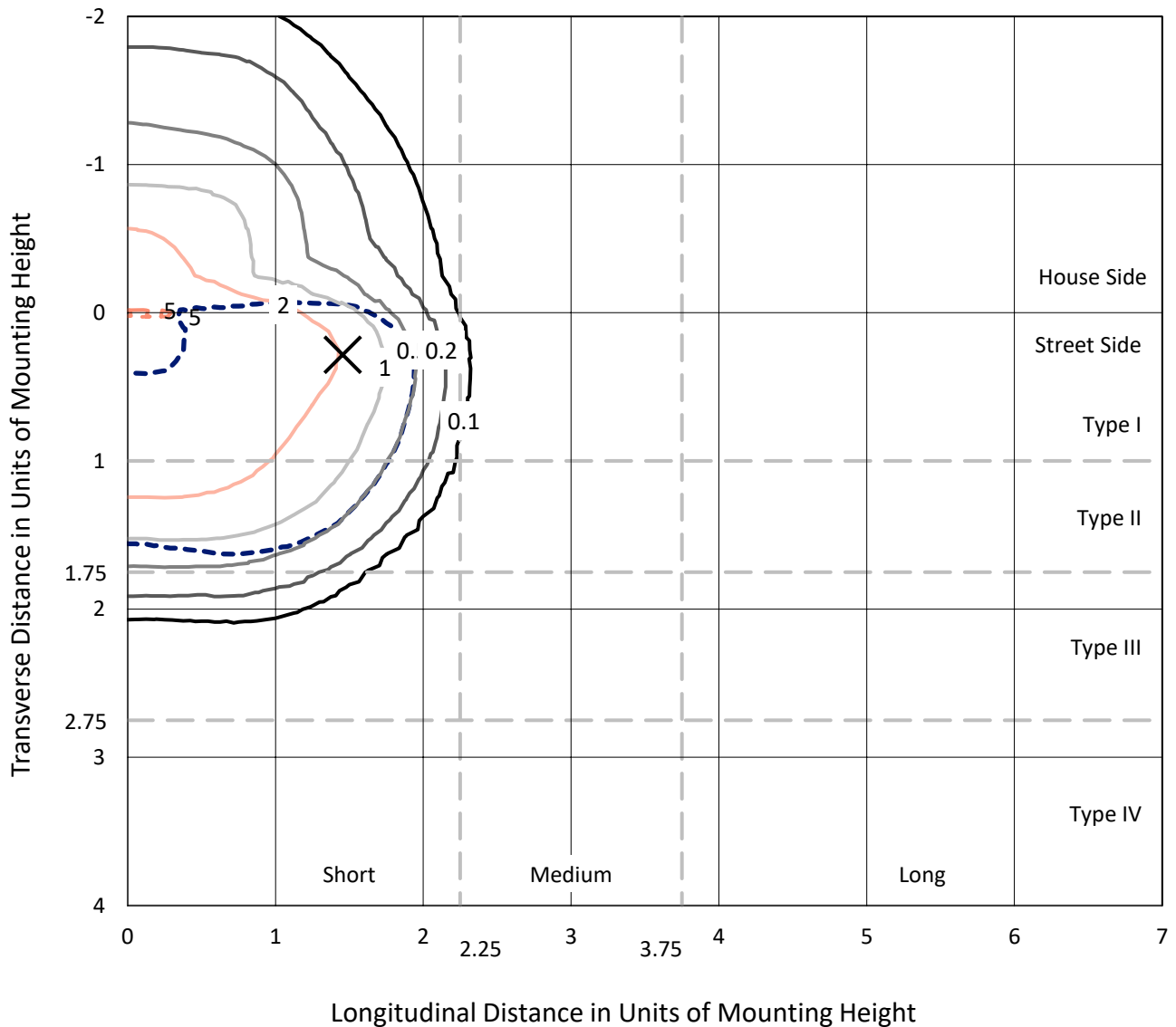
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

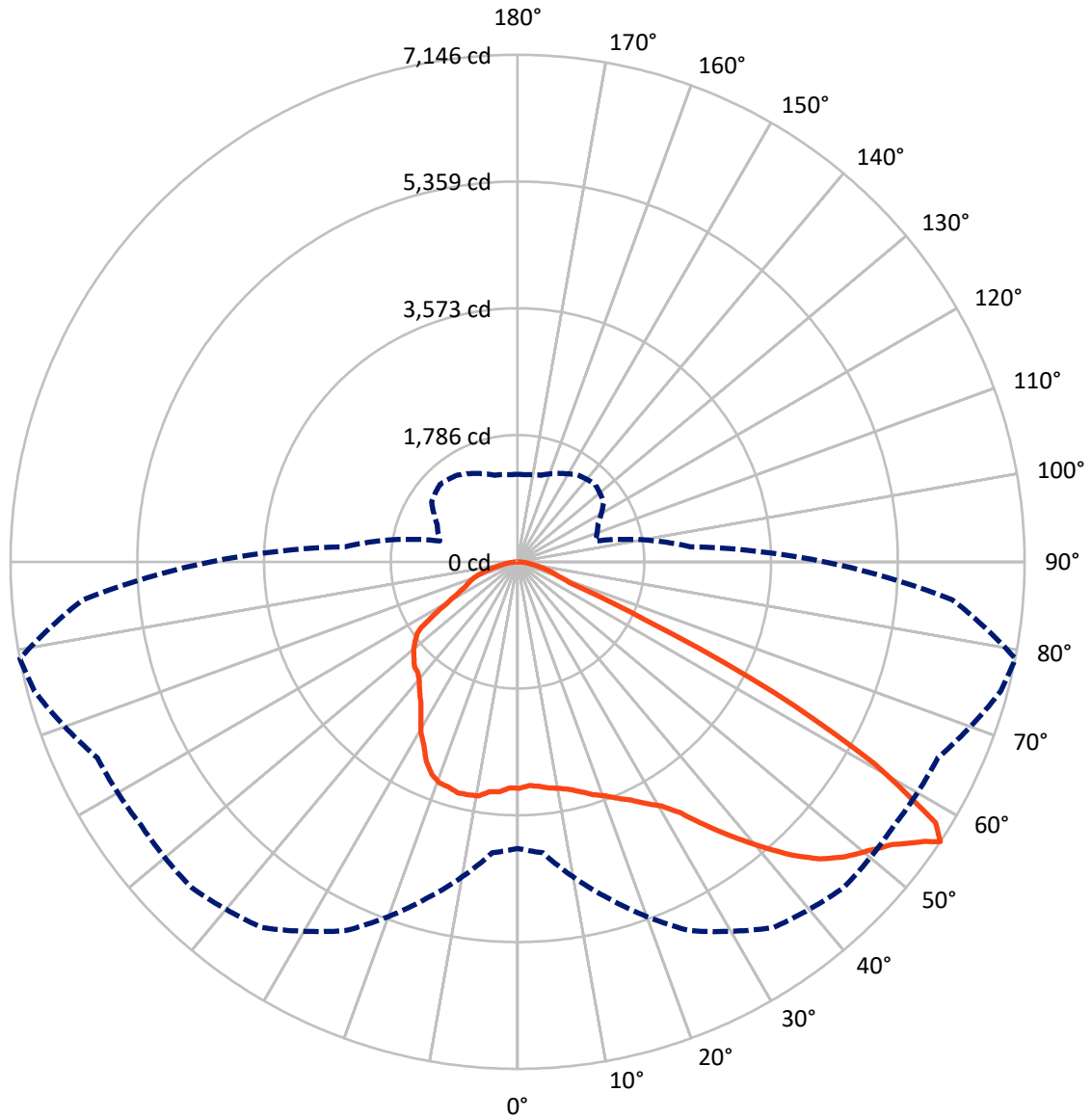
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	3682.7	0.0	3682.7
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	8787.6	0.0	8787.6
	% Fixture	70.5	0.0	70.5
Total	Lumens	12470.3	0.0	12470.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.1	2.3
10°-20°	793.9	6.4
20°-30°	1358.2	10.9
30°-40°	2081.6	16.7
40°-50°	2813.3	22.6
50°-60°	3231.2	25.9
60°-70°	1472.9	11.8
70°-80°	363.1	2.9
80°-90°	66.0	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°	12470.3	100.0
0°-180°	12470.3	100.0



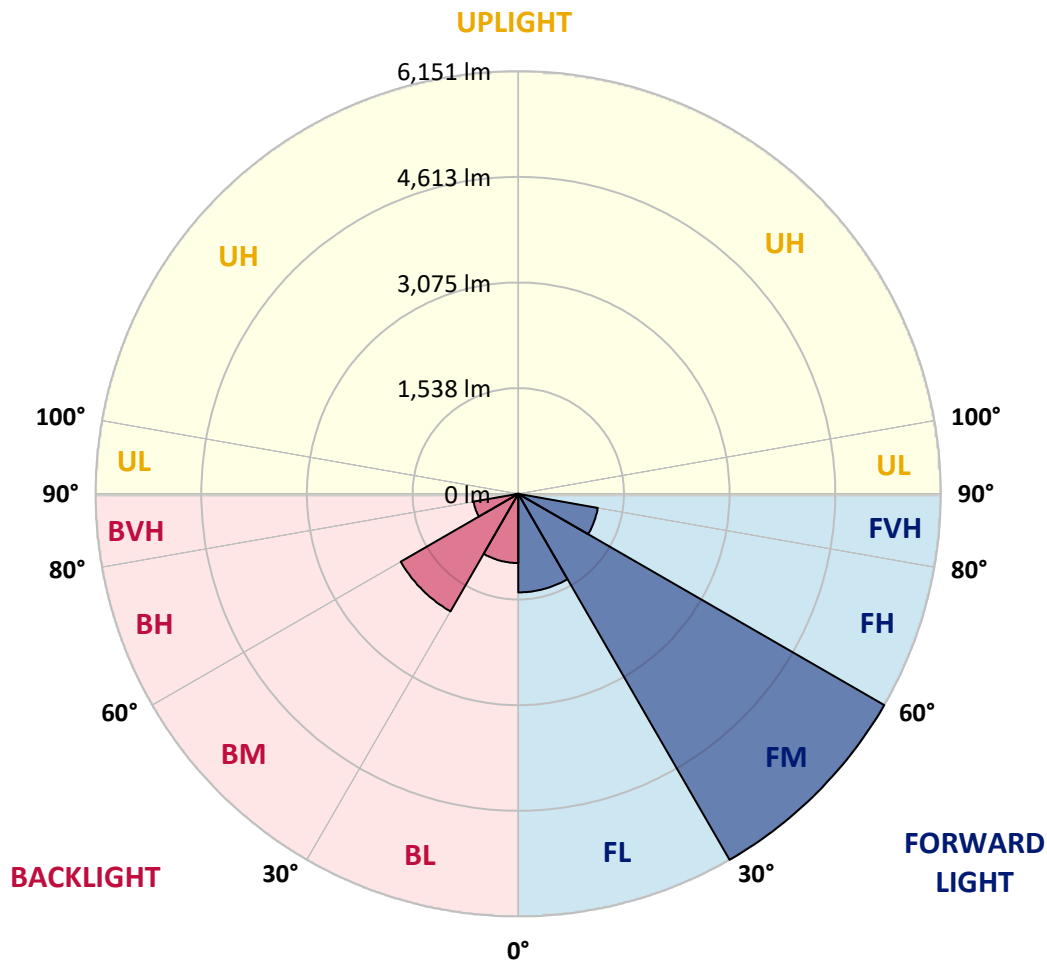
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1434.8	11.5			
FM (30°-60°)	6150.7	49.3			
FH (60°-80°)	1175.7	9.4			G1/1800
FVH (80°-90°)	26.4	0.2			G1/100
BL (0°-30°)	1007.4	8.1	B3/2500		
BM (30°-60°)	1975.4	15.8	B2/2500		
BH (60°-80°)	660.3	5.3	B2/1000		G2/1000
BVH (80°-90°)	39.6	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°	3190.7	3190.7	3190.7	3190.7	3190.7	3190.7	3190.7	3190.7	3190.7	3190.7	3190.7
2.5°	3035.3	3027.6	3046.2	3060.1	3077.3	3099.0	3109.8	3116.1	3170.5	3156.5	3198.4
5°	2970.1	2949.9	2963.9	2974.8	3004.2	3030.6	3060.1	3106.8	3156.5	3178.2	3229.5
7.5°	2912.6	2901.7	2898.6	2906.4	2946.8	2980.9	3032.2	3100.6	3181.3	3217.1	3246.6
10°	2817.9	2802.3	2825.6	2876.9	2887.7	2959.2	3018.3	3116.1	3186.0	3248.1	3335.2
12.5°	2775.9	2760.4	2765.0	2794.6	2870.7	2939.0	3008.9	3119.2	3266.8	3291.7	3408.2
15°	2842.7	2827.2	2831.8	2824.1	2897.1	2932.8	3043.1	3181.3	3322.7	3364.7	3488.9
17.5°	2995.0	2996.5	2976.3	2959.2	2942.2	3018.3	3094.4	3218.6	3344.5	3450.1	3543.3
20°	3285.5	3234.1	3193.8	3097.5	3071.1	3103.7	3200.0	3319.6	3433.0	3520.0	3625.6
22.5°	3509.1	3513.8	3456.3	3297.8	3240.4	3254.3	3336.7	3434.6	3558.9	3620.9	3742.1
25°	3833.8	3801.2	3739.0	3613.2	3484.3	3495.1	3555.7	3644.2	3678.4	3721.9	3854.0
27.5°	4130.5	4139.8	4017.0	3899.0	3739.0	3708.0	3816.7	3832.2	3774.7	3857.1	3902.2
30°	4431.8	4424.1	4343.3	4205.0	4048.2	4054.4	4102.5	4026.4	3947.1	3992.2	4023.3
32.5°	4744.1	4655.5	4652.4	4528.1	4408.5	4351.1	4292.0	4329.3	4206.6	4215.9	4186.4
35°	4994.2	5006.6	4935.2	4846.6	4787.6	4686.6	4525.0	4591.9	4568.6	4557.6	4430.3
37.5°	5175.9	5127.7	5163.5	5134.0	5078.0	4952.2	4784.4	4848.1	4859.0	4911.9	4764.3
40°	5325.0	5304.9	5399.6	5415.1	5376.3	5104.4	4803.1	4992.6	5155.8	5270.6	5095.1
42.5°	5396.4	5440.0	5539.4	5659.0	5572.0	5281.6	4899.4	5102.9	5466.4	5648.2	5408.9
45°	5492.8	5436.9	5584.4	5803.5	5805.0	5430.7	4992.6	5252.0	5708.7	5972.8	5623.3
47.5°	5394.9	5422.9	5575.2	5853.2	5924.7	5587.5	5244.2	5463.3	5975.9	6210.4	5822.1
50°	5175.9	5231.9	5509.9	5798.8	6014.7	5753.8	5533.2	5691.6	6222.9	6401.5	5854.7
52.5°	4947.5	4978.6	5413.6	5840.7	6055.1	5968.2	5920.0	6007.0	6524.2	6617.5	5895.2
55°	4326.2	4473.8	5095.1	5822.1	6252.4	6354.9	6317.7	6445.0	6866.0	6959.2	6115.7
56°	4038.8	4116.5	4904.0	5735.1	6291.3	6496.3	6477.6	6535.2	7047.7	7145.6	6149.9
57.5°	3507.6	3513.8	4181.7	5349.9	6145.2	6538.3	6519.6	6564.7	7012.0	6945.2	5850.1
60°	2194.9	2291.2	2845.8	4114.9	5225.6	6066.0	6171.6	5809.7	5912.2	5770.9	4551.4
62.5°	1137.1	1123.1	1491.3	2406.2	3468.7	4343.3	4441.2	4424.1	4265.6	4059.0	2973.2
65°	567.0	570.1	779.8	1191.4	1777.1	2274.1	2547.6	2577.1	2156.1	1983.7	1410.4
67.5°	411.7	427.1	560.8	728.6	837.3	936.7	1148.0	1126.2	852.8	810.9	751.9
70°	320.0	334.0	455.1	556.2	504.9	504.9	549.9	568.5	607.4	624.4	644.6
72.5°	233.0	243.9	347.9	383.7	330.8	355.7	411.7	455.1	495.5	501.7	525.0
75°	160.0	169.3	228.3	211.3	198.8	245.4	301.3	341.8	371.3	386.8	400.7
77.5°	104.1	107.1	130.5	110.3	127.4	158.4	195.7	229.9	259.4	271.8	274.9
80°	46.6	51.3	55.9	69.9	88.6	113.4	139.8	167.8	186.4	191.1	200.4
82.5°	26.4	26.4	34.1	49.7	65.3	82.3	101.0	121.2	142.9	147.6	146.0
85°	14.0	14.0	20.2	29.5	40.4	48.2	46.6	48.2	51.3	59.0	57.4
87.5°	4.6	4.6	6.2	6.2	7.7	9.3	7.7	10.8	14.0	14.0	14.0
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°	3190.7	3190.7	3190.7	3190.7	3190.7	3190.7	3190.7	3190.7	3190.7	3190.7	3190.7
2.5°	3186.0	3200.0	3181.3	3221.7	3221.7	3214.0	3175.1	3187.6	3196.9	3196.9	3204.6
5°	3246.6	3242.0	3254.3	3206.2	3176.7	3165.8	3102.1	3071.1	3044.7	3043.1	3019.8
7.5°	3280.7	3268.4	3263.7	3227.9	3097.5	3018.3	2881.5	2802.3	2785.2	2724.7	2748.0
10°	3335.2	3358.4	3335.2	3141.0	2959.2	2777.5	2643.9	2521.1	2473.0	2434.2	2410.9
12.5°	3447.0	3436.1	3300.9	3038.4	2783.7	2567.7	2368.9	2240.0	2191.8	2157.7	2154.6
15°	3541.7	3487.4	3280.7	2876.9	2510.3	2280.4	2117.3	2025.6	2003.9	2007.0	2020.9
17.5°	3574.3	3537.1	3175.1	2709.1	2306.8	2036.5	1960.4	1946.4	1966.6	1989.9	1996.1
20°	3625.6	3566.6	3131.6	2480.8	2055.2	1884.3	1879.6	1929.3	1966.6	2000.7	2005.4
22.5°	3732.8	3583.7	2990.3	2264.8	1882.7	1839.2	1884.3	1926.2	1983.7	2011.7	1986.8
25°	3763.9	3546.4	2791.4	2005.4	1774.0	1811.3	1859.5	1916.9	1957.3	1972.8	1983.7
27.5°	3790.3	3488.9	2522.7	1833.0	1739.8	1809.7	1859.5	1907.6	1929.3	1943.3	1955.7
30°	3864.8	3471.8	2289.7	1718.1	1718.1	1778.6	1842.3	1854.7	1884.3	1901.3	1923.1
32.5°	3902.2	3353.7	2050.4	1645.1	1696.3	1794.2	1798.8	1822.1	1823.7	1837.7	1814.4
35°	4000.0	3269.9	1828.3	1592.3	1705.6	1778.6	1801.9	1788.0	1711.9	1674.5	1682.3
37.5°	4071.4	3227.9	1668.4	1586.0	1707.1	1795.7	1808.2	1702.5	1623.3	1561.1	1576.7
40°	4264.0	3123.9	1547.2	1575.1	1721.2	1814.4	1780.2	1665.3	1522.3	1458.6	1447.8
42.5°	4411.6	3049.3	1471.1	1562.7	1732.0	1840.8	1766.2	1590.7	1444.7	1385.6	1401.2
45°	4582.5	3032.2	1430.7	1565.9	1750.7	1854.7	1749.1	1533.2	1377.9	1354.6	1349.9
47.5°	4643.1	2909.5	1387.1	1539.5	1746.0	1850.1	1691.7	1489.7	1353.0	1356.1	1368.6
50°	4542.2	2783.7	1354.6	1485.0	1715.0	1808.2	1601.5	1432.2	1339.0	1377.9	1399.6
52.5°	4413.1	2654.8	1287.7	1412.0	1651.2	1742.9	1559.6	1429.1	1325.1	1312.6	1317.3
55°	4452.0	2549.2	1194.6	1312.6	1548.7	1621.7	1513.0	1399.6	1290.9	1244.3	1259.8
56°	4326.2	2440.4	1134.0	1250.5	1478.8	1544.1	1489.7	1373.2	1262.9	1231.8	1231.8
57.5°	3970.4	2075.3	1054.8	1151.1	1331.2	1408.9	1444.7	1357.6	1231.8	1177.5	1179.0
60°	2928.1	1475.7	946.0	1014.3	1102.9	1165.0	1331.2	1314.1	1154.2	1116.8	1102.9
62.5°	1805.0	1078.1	868.3	894.7	939.8	991.0	1161.9	1189.9	1071.9	1031.5	1022.2
65°	1011.2	824.9	809.3	820.2	841.9	868.3	964.6	1026.8	946.0	883.9	880.8
67.5°	739.4	737.9	750.3	759.6	768.9	768.9	792.2	817.1	806.2	756.5	751.9
70°	657.1	661.8	671.0	672.6	675.7	664.8	646.2	638.4	650.8	619.8	613.6
72.5°	542.1	557.7	568.5	570.1	553.0	539.0	514.2	487.8	478.4	472.2	470.7
75°	416.3	427.1	431.9	430.3	424.1	403.8	374.3	347.9	330.8	312.3	321.5
77.5°	281.1	296.7	304.4	304.4	295.1	264.1	250.1	229.9	212.8	192.6	195.7
80°	197.3	208.1	220.6	219.0	203.5	188.0	167.8	149.1	135.1	119.6	118.1
82.5°	147.6	153.8	160.0	156.9	146.0	130.5	116.5	99.4	83.8	73.0	73.0
85°	52.8	57.4	69.9	73.0	79.2	79.2	66.8	55.9	45.1	37.3	37.3
87.5°	15.6	15.6	17.1	17.1	15.6	17.1	14.0	15.6	17.1	10.8	10.8
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)