

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: P651482

Luminaire Tested: **GALN-SA6D-840-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651482
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-840-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39479.9 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

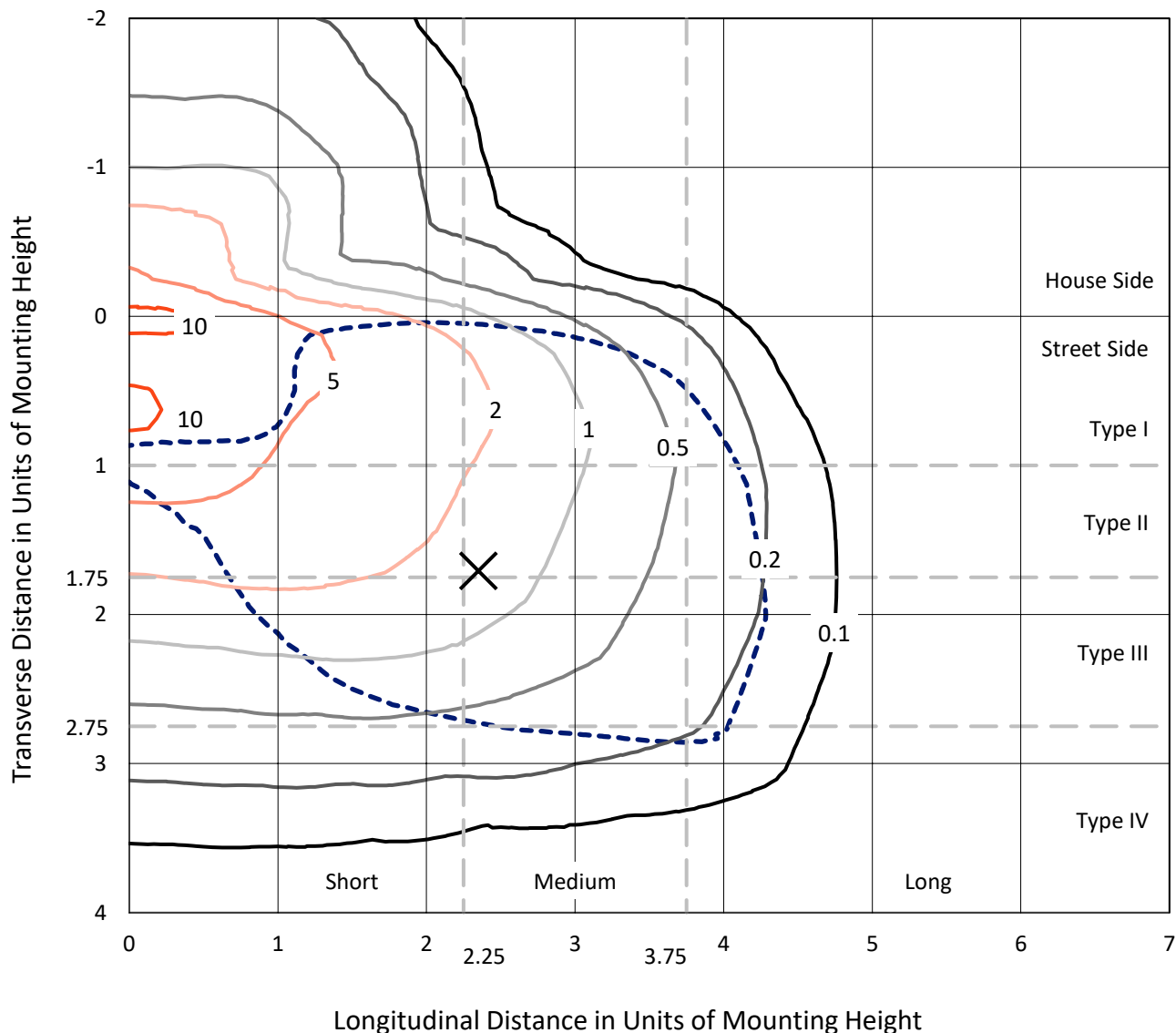
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

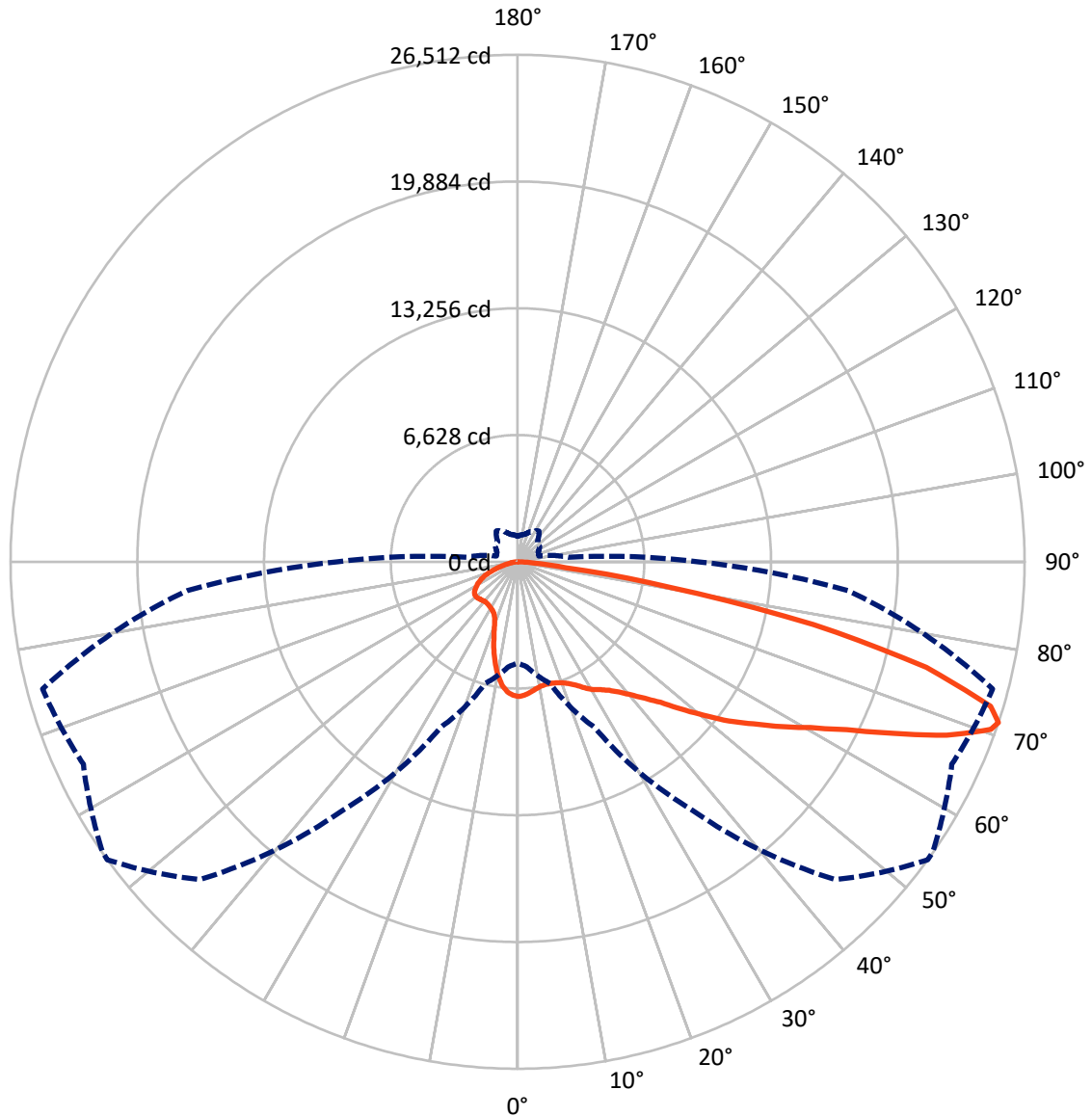
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7127.9	0.0	7127.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	32352.1	0.0	32352.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	39479.9	0.0	39479.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	627.7	1.6
10°-20°	1657.5	4.2
20°-30°	2759.7	7.0
30°-40°	4080.8	10.3
40°-50°	5747.9	14.6
50°-60°	7696.7	19.5
60°-70°	9701.1	24.6
70°-80°	6625.8	16.8
80°-90°	582.7	1.5
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°	39479.9	100.0
0°-180°	39479.9	100.0

Coefficient of Utilization

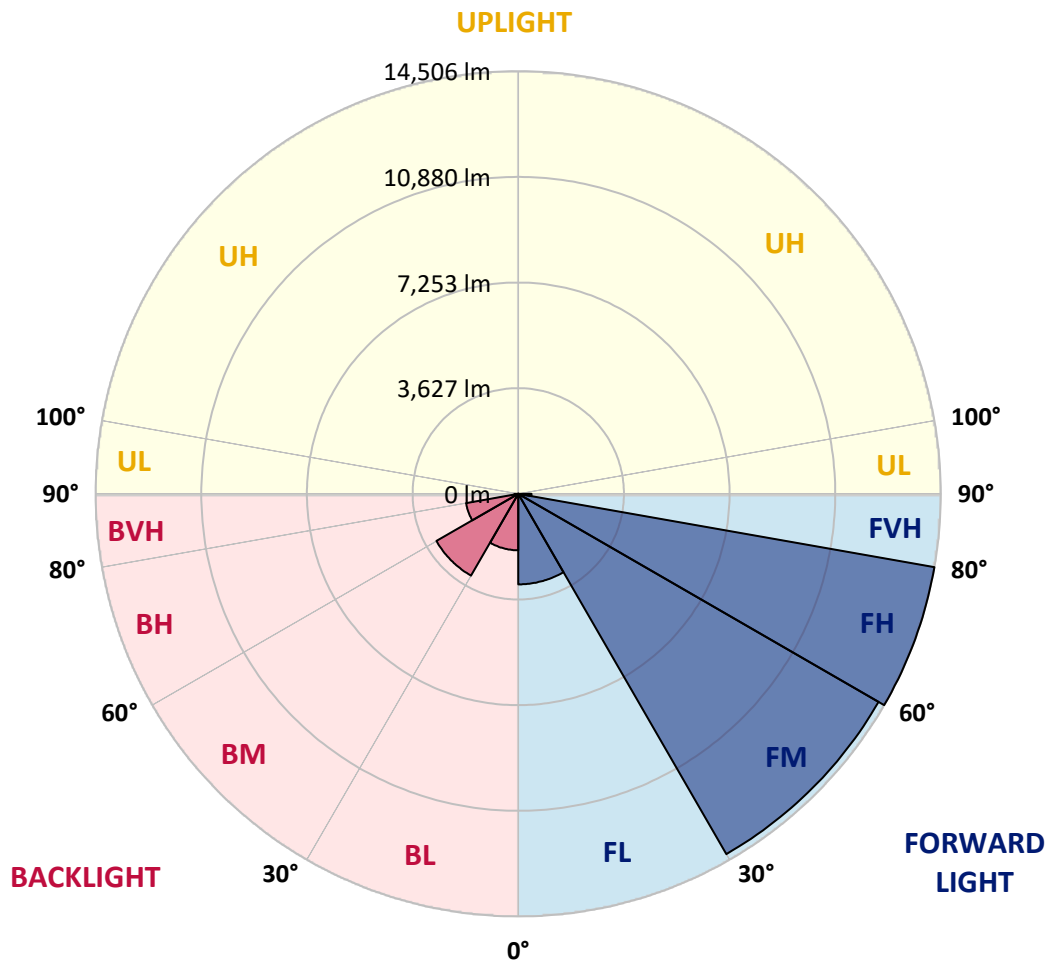


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3107.7	7.9			
FM (30°-60°)	14282.4	36.2			
FH (60°-80°)	14506.5	36.7			G5
FVH (80°-90°)	455.5	1.2			G3/500
BL (0°-30°)	1937.2	4.9	B3/2500		
BM (30°-60°)	3243.0	8.2	B3/5000		
BH (60°-80°)	1820.4	4.6	B3/2500		G3/2500
BVH (80°-90°)	127.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7043.8	7043.8	7043.8	7043.8	7043.8	7043.8	7043.8	7043.8	7043.8	7043.8	7043.8
2.5°	6805.0	6836.9	6845.5	6866.8	6911.6	6947.8	6984.1	6979.8	7031.0	7052.3	7071.5
5°	6502.1	6510.7	6542.6	6585.3	6664.2	6764.4	6862.6	6864.7	6990.5	7090.7	7139.8
7.5°	6280.3	6308.1	6329.4	6374.2	6457.4	6566.1	6721.8	6734.6	6958.5	7156.8	7261.3
10°	6135.3	6167.3	6190.8	6246.2	6329.4	6451.0	6619.4	6642.9	6935.1	7261.3	7444.7
12.5°	6003.1	6035.1	6056.5	6129.0	6237.7	6387.0	6576.8	6604.5	6943.5	7382.9	7645.2
15°	6084.1	6109.8	6101.2	6122.6	6195.1	6365.6	6593.9	6621.5	6975.6	7500.2	7843.5
17.5°	6444.6	6465.9	6395.5	6314.5	6280.3	6406.1	6647.2	6677.0	7039.5	7621.7	8046.1
20°	6975.6	7033.1	6879.6	6698.3	6534.1	6551.2	6758.0	6790.1	7129.1	7743.3	8253.0
22.5°	7666.5	7709.2	7521.5	7222.9	6920.1	6764.4	6924.4	6943.5	7263.5	7901.1	8479.0
25°	8479.0	8504.6	8244.4	7860.6	7423.4	7129.1	7152.5	7186.7	7485.2	8080.2	8679.5
27.5°	9268.1	9349.1	9048.4	8579.2	8003.5	7513.0	7466.1	7487.3	7726.2	8180.4	8818.1
30°	10204.3	10197.8	9880.1	9336.3	8598.4	7931.0	7762.4	7758.2	7856.3	8229.5	8918.3
32.5°	10950.7	11038.0	10726.7	10133.9	9278.7	8363.8	7967.2	7958.6	7956.5	8314.8	9067.6
35°	11799.4	11812.2	11526.4	10929.3	10014.5	8907.6	8253.0	8210.3	8161.2	8498.2	9270.2
37.5°	12558.6	12618.3	12356.0	11686.4	10737.4	9472.8	8645.3	8617.6	8468.4	8816.0	9594.3
40°	13151.4	13196.2	13038.4	12400.7	11449.6	10082.7	9144.4	9093.1	8911.9	9336.3	10027.2
42.5°	13345.5	13437.2	13499.0	13185.5	12268.5	10805.6	9758.5	9694.5	9555.9	10125.3	10526.2
45°	13360.4	13505.5	13831.7	13846.6	13091.7	11671.4	10475.1	10430.3	10419.7	11136.2	11227.9
47.5°	13247.3	13394.5	13942.6	14239.0	13825.3	12545.8	11509.3	11438.9	11445.3	12385.8	12014.8
50°	12974.4	13149.3	13814.6	14490.7	14398.9	13454.2	12601.2	12577.7	12709.9	13812.5	12831.6
52.5°	12460.5	12671.6	13682.4	14648.5	14825.5	14236.9	13842.4	13776.3	14111.1	15360.7	13725.0
55°	11038.0	11355.8	13198.3	14735.9	15230.7	14985.4	14959.8	15079.2	15522.8	17049.7	14708.2
57.5°	10295.9	10534.8	12147.0	14750.8	15742.4	15855.5	16264.9	16294.8	17071.0	18843.2	15819.2
60°	9890.7	10101.8	11571.2	14652.7	16456.9	16932.4	17599.9	17706.5	18583.0	20785.9	16970.8
62.5°	9536.8	9718.0	11225.8	14313.7	17263.0	18529.7	19329.4	19380.6	20299.7	22931.3	18107.5
65°	8702.9	8909.8	10530.5	13974.6	17958.2	20525.8	21624.0	21564.3	22127.3	24782.3	18819.7
67.5°	7579.1	7841.4	9231.8	12803.8	18301.5	22707.3	24208.7	24134.0	23931.4	25995.7	19024.4
70°	6143.8	6284.6	7570.5	10780.0	16930.3	23852.5	26249.5	26170.6	25048.8	26155.7	18056.3
71°	5286.6	5506.2	6591.7	9575.1	15789.4	23502.8	26511.9	26490.5	25051.0	25714.2	17327.0
72.5°	4126.5	4260.8	5220.5	7419.1	13420.1	21515.2	25863.5	25944.5	24507.2	24488.0	15823.5
75°	2610.2	2669.9	3275.6	4367.5	7363.7	15237.1	22078.3	22297.9	21760.5	20043.8	11767.4
77.5°	1516.2	1593.0	1962.0	2574.0	3181.8	8270.0	15797.9	16036.8	15119.8	11035.9	4817.4
80°	882.9	968.2	1292.4	1494.9	1460.8	3068.7	8044.0	8451.3	6546.9	2787.2	1352.1
82.5°	490.5	548.1	908.4	910.6	778.3	1002.3	2531.3	2648.6	1868.1	1123.8	552.4
85°	356.2	403.1	586.4	531.0	373.2	430.8	880.8	923.4	754.9	473.4	179.1
87.5°	125.8	179.1	322.0	255.9	102.3	89.6	253.8	206.9	191.9	132.2	40.5
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°	7043.8	7043.8	7043.8	7043.8	7043.8	7043.8	7043.8	7043.8	7043.8	7043.8	7043.8
2.5°	7082.1	7086.4	7065.2	7026.7	6988.4	6939.3	6883.8	6841.2	6822.0	6819.9	6817.7
5°	7158.9	7169.6	7088.6	6969.2	6836.9	6674.8	6536.3	6378.5	6337.9	6273.9	6293.1
7.5°	7282.6	7276.2	7116.3	6862.6	6553.3	6209.9	5920.0	5751.5	5576.6	5527.6	5529.7
10°	7459.7	7419.1	7116.3	6645.0	6129.0	5619.2	5214.1	4958.2	4819.5	4704.4	4661.7
12.5°	7647.3	7544.9	7048.1	6340.0	5583.0	4958.2	4523.2	4177.7	4088.1	3994.2	3996.4
15°	7826.4	7655.9	6913.7	5911.4	4994.4	4252.3	3830.1	3623.2	3595.4	3606.1	3604.0
17.5°	7988.5	7734.8	6709.0	5433.7	4307.8	3646.7	3422.7	3437.7	3512.3	3565.6	3572.0
20°	8152.7	7781.7	6404.0	4794.0	3659.4	3279.8	3288.4	3405.7	3518.7	3591.2	3601.8
22.5°	8308.4	7803.0	6045.8	4175.6	3190.2	3124.1	3250.0	3375.9	3486.7	3557.1	3567.8
25°	8410.8	7753.9	5538.2	3529.3	2960.0	3068.7	3200.9	3307.6	3401.4	3473.9	3491.0
27.5°	8438.5	7596.2	4909.1	3006.9	2853.3	3015.4	3137.0	3215.9	3288.4	3356.6	3369.4
30°	8423.5	7363.7	4218.2	2699.8	2791.5	2953.6	3047.4	3105.0	3192.4	3245.8	3256.4
32.5°	8400.1	7092.8	3497.4	2535.6	2740.3	2896.0	2951.4	3002.6	3000.5	2979.2	2994.1
35°	8408.7	6768.7	2913.1	2437.5	2695.6	2853.3	2900.3	2836.3	2652.9	2644.4	2635.9
37.5°	8453.4	6448.8	2488.7	2369.3	2672.1	2847.0	2872.5	2578.3	2416.2	2341.5	2322.3
40°	8568.5	6075.6	2209.3	2318.0	2669.9	2896.0	2746.7	2448.2	2136.8	1991.8	1981.1
42.5°	8722.1	5708.8	2038.8	2286.1	2695.6	2970.7	2695.6	2264.7	1925.7	1840.4	1827.6
45°	8950.3	5288.7	1944.9	2271.1	2733.9	2998.3	2678.5	2130.4	1840.4	1772.2	1772.2
47.5°	9208.4	4887.8	1893.7	2260.5	2783.0	2979.2	2527.0	2087.8	1799.9	1808.4	1848.9
50°	9464.3	4540.2	1855.3	2237.1	2825.6	2968.5	2465.2	2085.6	1810.5	1919.3	1991.8
52.5°	9760.6	4295.0	1808.4	2198.6	2825.6	2900.3	2446.0	2128.3	1840.4	1872.4	1904.4
55°	10118.9	4218.2	1748.7	2115.5	2774.5	2729.6	2435.4	2190.1	1861.7	1787.0	1799.9
57.5°	10592.4	4341.8	1691.1	2011.0	2657.1	2552.7	2431.1	2207.2	1812.7	1750.8	1738.0
60°	11142.6	4587.1	1674.0	1904.4	2497.2	2401.2	2405.5	2158.2	1744.4	1680.5	1691.1
62.5°	11528.5	4734.2	1663.4	1823.3	2322.3	2234.9	2343.7	2098.5	1714.5	1659.1	1669.8
65°	11528.5	4555.1	1565.3	1699.7	2096.3	2034.5	2269.0	2023.8	1676.2	1612.2	1601.5
67.5°	11091.4	4032.7	1416.0	1514.1	1846.8	1806.3	2164.6	1934.2	1618.6	1569.6	1544.0
70°	9952.6	3058.0	1228.4	1296.6	1531.2	1567.5	2030.2	1812.7	1522.6	1462.9	1424.6
71°	9451.4	2663.5	1149.5	1185.7	1409.6	1462.9	1966.2	1761.5	1480.0	1394.7	1326.4
72.5°	8485.4	2243.5	1030.1	1044.9	1204.9	1300.9	1831.9	1663.4	1398.9	1277.4	1200.6
75°	6446.7	1637.8	829.6	821.1	891.4	1032.2	1550.4	1482.1	1226.2	1062.0	1017.2
77.5°	2785.1	891.4	620.6	627.0	605.6	782.6	1219.8	1273.1	1051.3	863.7	823.2
80°	844.4	513.9	424.4	432.9	405.2	524.6	859.4	998.0	844.4	671.8	616.3
82.5°	432.9	307.0	290.1	285.8	258.0	296.5	520.3	682.4	603.5	420.1	371.0
85°	187.6	164.2	142.9	138.6	121.5	106.6	185.5	341.2	319.9	234.6	224.0
87.5°	46.9	42.6	27.8	25.6	15.0	2.1	0.0	0.0	0.0	0.0	0.0
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)