

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: P522895

Luminaire Tested: **GALN-SA8D-735-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522895
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58234 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

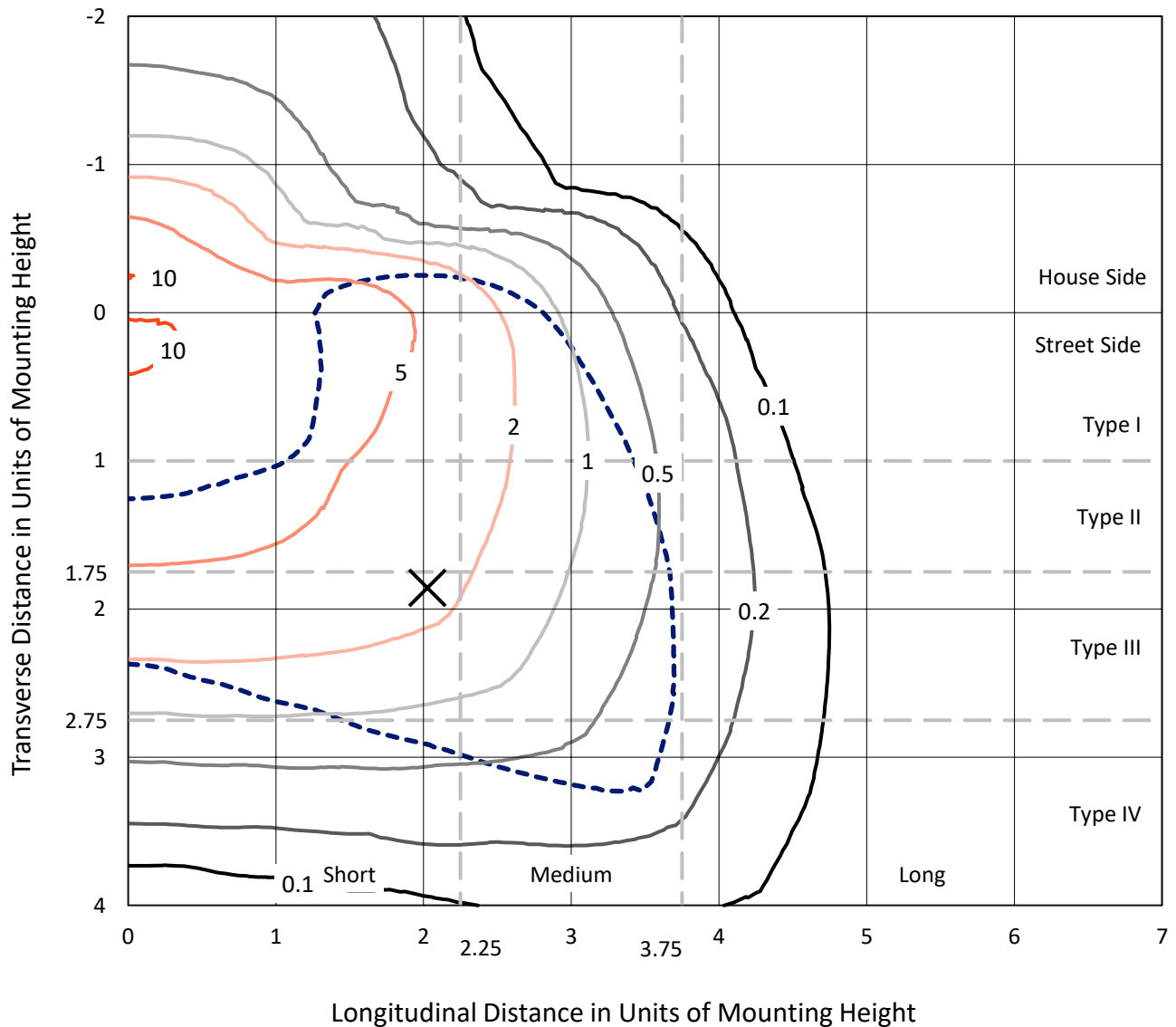
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

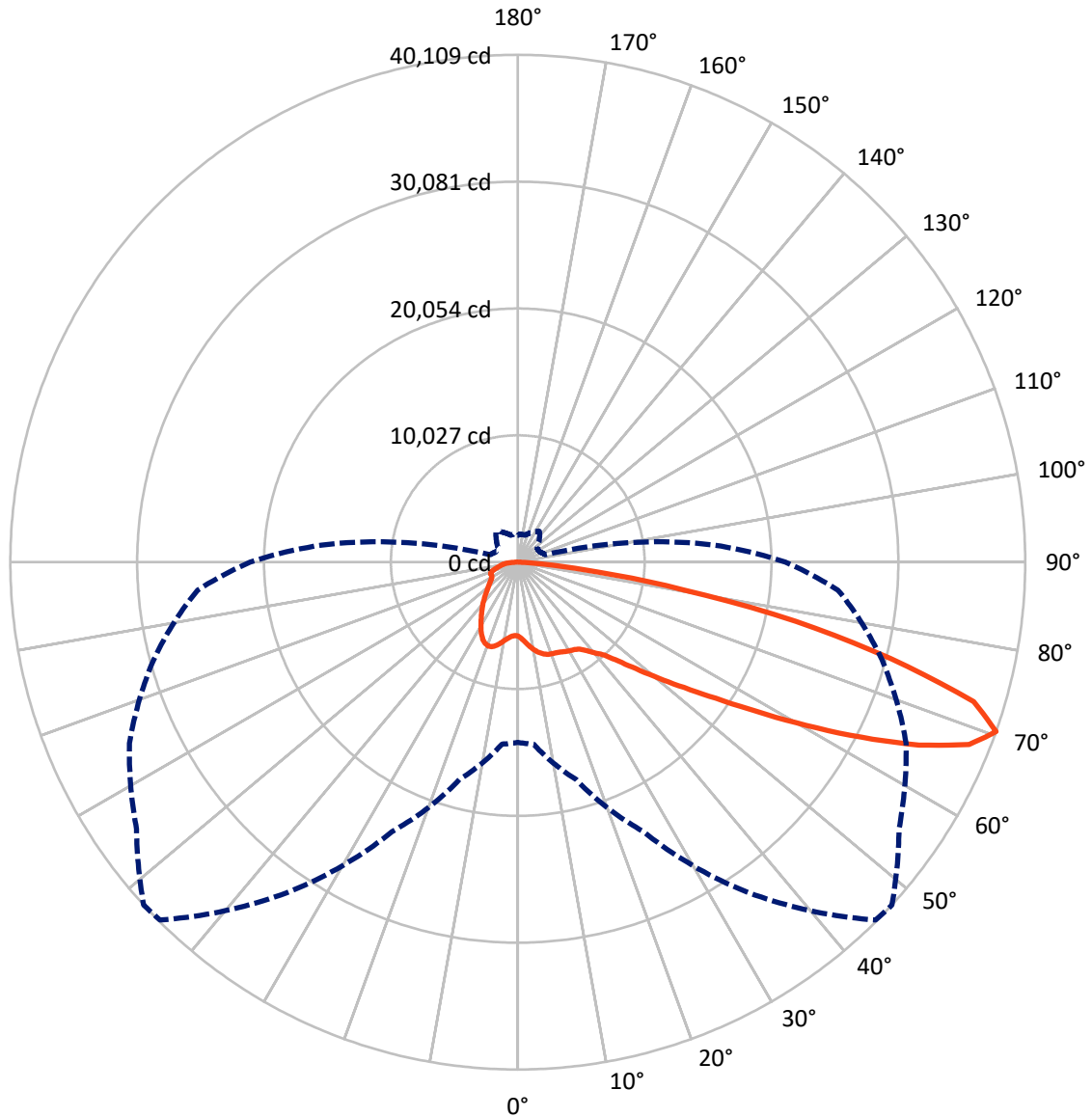
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13185.3	0.0	13185.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	45048.7	0.0	45048.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	58234.0	0.0	58234.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	602.6	1.0
10°-20°	2014.6	3.5
20°-30°	3350.2	5.8
30°-40°	4748.3	8.2
40°-50°	7009.6	12.0
50°-60°	12140.9	20.8
60°-70°	17149.3	29.4
70°-80°	9858.4	16.9
80°-90°	1360.2	2.3
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°	58234.0	100.0
0°-180°	58234.0	100.0

Coefficient of Utilization



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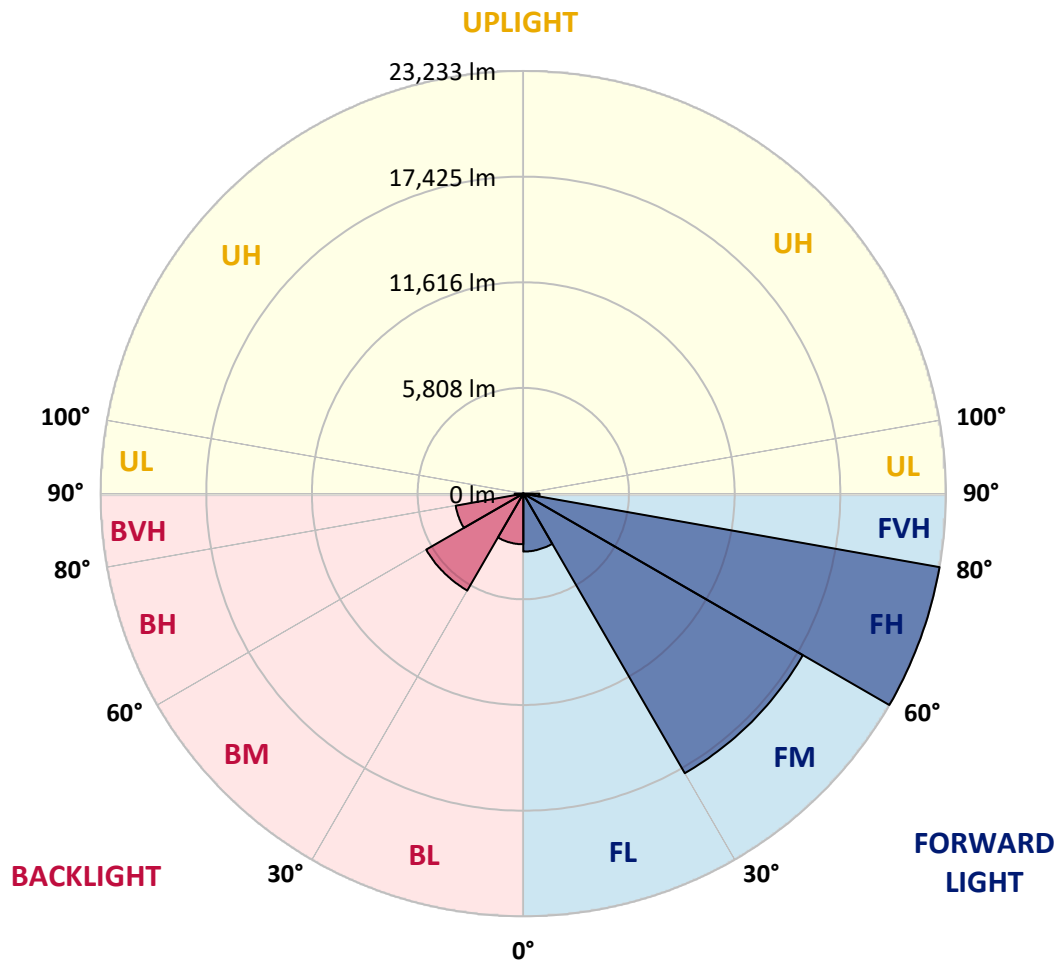
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3184.5	5.5			
FM	(30°-60°)	17742.8	30.5			
FH	(60°-80°)	23232.9	39.9			G5
FVH	(80°-90°)	888.5	1.5			G5
BL	(0°-30°)	2782.8	4.8	B4/5000		
BM	(30°-60°)	6156.0	10.6	B4/8500		
BH	(60°-80°)	3774.8	6.5	B4/5000		G4/5000
BVH	(80°-90°)	471.7	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	5846.0	5846.0	5846.0	5846.0	5846.0	5846.0	5846.0	5846.0	5846.0	5846.0	5846.0
2.5°	6223.1	6201.2	6198.1	6151.4	6126.5	6079.7	6061.0	6017.4	5964.4	5911.4	5861.6
5°	6712.3	6712.3	6690.5	6625.0	6522.2	6416.3	6369.5	6285.4	6135.8	6014.3	5911.4
7.5°	7214.0	7220.2	7176.6	7080.0	6933.5	6762.2	6718.5	6593.9	6382.0	6204.4	6051.7
10°	7647.2	7647.2	7587.9	7457.1	7273.2	7086.2	7042.6	6902.4	6665.6	6444.3	6244.9
12.5°	7977.5	7977.5	7899.6	7728.2	7528.7	7360.5	7310.6	7176.6	6955.4	6709.2	6456.8
15°	8192.5	8176.9	8089.7	7896.5	7703.2	7556.8	7522.5	7410.3	7207.8	6958.5	6674.9
17.5°	8201.8	8195.6	8111.5	7949.4	7781.2	7681.4	7659.6	7584.8	7425.9	7189.1	6889.9
20°	8021.1	8033.6	7977.5	7862.2	7781.2	7737.5	7728.2	7703.2	7591.1	7369.8	7070.7
22.5°	7827.9	7849.7	7796.7	7734.4	7728.2	7771.8	7778.0	7784.3	7712.6	7497.6	7223.4
25°	7781.2	7796.7	7743.8	7687.7	7721.9	7837.2	7862.2	7887.1	7831.0	7650.3	7404.1
27.5°	8018.0	8005.5	7902.7	7781.2	7803.0	7958.8	7993.1	8021.1	7993.1	7837.2	7628.5
30°	8688.0	8647.5	8441.8	8086.5	7974.4	8083.4	8117.7	8195.6	8195.6	8080.3	7871.5
32.5°	9809.8	9731.9	9354.8	8656.8	8267.3	8201.8	8236.1	8363.9	8429.3	8339.0	8111.5
35°	11171.6	11090.6	10551.5	9613.5	8803.3	8438.7	8429.3	8572.7	8747.2	8544.6	8248.6
37.5°	12539.6	12455.5	11807.3	10754.0	9585.4	8937.3	8881.2	8931.0	9005.8	8635.0	8438.7
40°	13907.6	13807.9	13240.7	12028.5	10542.1	9597.9	9451.4	9227.1	9195.9	8931.0	8806.4
42.5°	15263.2	15172.8	14886.1	13458.9	11688.9	10243.0	10018.6	9632.2	9750.6	9591.7	9482.6
45°	16631.2	16637.4	16332.0	15063.7	13072.5	11433.3	11131.1	10526.5	10807.0	10747.8	10810.1
47.5°	17843.4	17827.8	17718.7	16621.8	14789.5	12966.5	12577.0	11875.8	12355.7	12573.9	13050.6
50°	19018.2	19008.8	19015.1	18388.7	16783.9	14789.5	14359.5	13624.0	14705.4	15462.6	16316.4
52.5°	20700.9	20753.9	20376.8	20211.7	19208.3	16942.8	16469.1	15708.8	17481.9	18675.4	20342.6
55°	22389.9	22346.3	22050.2	22221.6	21744.8	19491.8	18996.4	18391.8	20573.2	21878.8	24384.3
57.5°	23384.0	23399.6	23701.8	24540.1	24876.6	22670.4	22221.6	21754.2	24047.7	24973.2	27980.4
60°	24278.3	24350.0	25219.4	26802.4	27715.5	26575.0	26176.1	25721.1	27235.6	27603.3	31102.8
62.5°	24558.8	24780.0	26297.6	28665.9	30482.7	30981.3	30485.8	29482.4	30270.8	30127.4	33218.7
65°	23159.6	23461.9	26182.3	29364.0	32953.8	35163.2	34848.5	32985.0	32857.2	31994.0	33564.6
67.5°	19476.3	19778.5	23271.8	27899.3	33975.9	38784.2	38469.5	35540.3	34427.8	32168.5	30947.0
70°	14250.4	14440.5	17781.0	23489.9	31922.4	39999.6	40108.6	36786.8	33866.9	29797.1	25409.5
72.5°	8211.2	8631.9	10972.1	16525.2	26079.5	36927.0	37684.2	34194.1	30320.6	24857.9	17765.5
75°	3530.7	3540.0	5073.2	9114.9	17662.6	29681.8	30414.1	28345.0	23810.9	17189.0	9485.7
77.5°	1679.6	1710.8	2231.2	4069.8	9722.5	20507.7	22483.4	20024.7	15228.9	8257.9	3583.6
80°	1090.7	1112.5	1364.9	2019.3	4767.8	11891.4	13268.8	11551.8	6718.5	2951.0	1545.6
82.5°	660.6	666.9	913.0	1234.0	2623.8	5384.8	6347.7	5014.0	2866.9	1766.9	909.9
85°	402.0	405.1	554.7	763.5	1592.4	1860.4	1910.2	1894.7	1682.7	1156.1	486.1
87.5°	193.2	199.4	286.7	361.5	626.4	576.5	545.3	632.6	794.6	623.2	208.8
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°	5846.0	5846.0	5846.0	5846.0	5846.0	5846.0	5846.0	5846.0	5846.0	5846.0	5846.0
2.5°	5839.8	5830.4	5808.6	5799.2	5793.0	5796.1	5793.0	5793.0	5796.1	5796.1	5796.1
5°	5867.8	5852.2	5817.9	5817.9	5836.6	5880.3	5920.8	5951.9	5986.2	5983.1	5983.1
7.5°	5989.3	5961.3	5920.8	5933.2	5980.0	6048.5	6120.2	6188.8	6257.3	6263.6	6260.4
10°	6167.0	6138.9	6095.3	6110.9	6185.7	6288.5	6378.9	6478.6	6553.4	6575.2	6569.0
12.5°	6369.5	6313.4	6276.0	6319.7	6438.1	6575.2	6662.4	6737.2	6790.2	6821.4	6808.9
15°	6575.2	6522.2	6478.6	6569.0	6712.3	6840.1	6883.7	6896.2	6905.5	6936.7	6930.4
17.5°	6774.6	6702.9	6687.4	6805.8	6942.9	6999.0	6974.1	6921.1	6880.6	6905.5	6902.4
20°	6952.2	6896.2	6889.9	7008.3	7061.3	7008.3	6902.4	6808.9	6737.2	6743.5	6740.3
22.5°	7120.5	7076.9	7083.1	7133.0	7048.8	6868.1	6693.6	6565.8	6487.9	6503.5	6512.9
25°	7307.5	7263.9	7279.4	7198.4	6921.1	6606.3	6353.9	6244.9	6213.7	6244.9	6266.7
27.5°	7550.6	7522.5	7513.2	7201.5	6693.6	6219.9	5933.2	5892.7	5920.8	5989.3	6023.6
30°	7812.3	7812.3	7762.5	7148.6	6382.0	5755.6	5506.3	5512.6	5609.2	5705.8	5740.0
32.5°	8064.7	8117.7	7961.9	7005.2	5980.0	5303.8	5113.7	5119.9	5204.1	5322.5	5353.6
35°	8273.5	8426.2	8133.3	6743.5	5506.3	4923.6	4780.3	4696.1	4699.2	4789.6	4814.5
37.5°	8560.2	8843.8	8233.0	6353.9	5001.5	4599.5	4437.5	4291.0	4194.4	4157.0	4157.0
40°	9058.8	9476.4	8257.9	5777.4	4524.7	4291.0	4060.4	3885.9	3698.9	3530.7	3499.5
42.5°	9903.3	10429.9	8208.1	5113.7	4094.7	3951.3	3727.0	3512.0	3253.3	3016.5	2997.8
45°	11399.1	11670.2	8074.1	4425.0	3711.4	3624.1	3406.0	3172.3	2898.1	2686.2	2670.6
47.5°	13795.4	13412.1	7896.5	3814.2	3362.4	3337.5	3169.2	2898.1	2623.8	2477.4	2461.8
50°	17294.9	16154.4	7871.5	3371.7	3081.9	3094.4	2957.3	2708.0	2468.0	2346.5	2327.8
52.5°	21508.0	19466.9	8036.7	3060.1	2835.7	2882.5	2813.9	2583.3	2371.4	2268.6	2249.9
55°	25596.5	22446.0	8136.4	2817.0	2605.1	2692.4	2701.7	2508.5	2315.3	2212.5	2200.0
57.5°	28915.2	24689.7	7693.9	2595.8	2405.7	2539.7	2608.3	2464.9	2287.3	2209.4	2196.9
60°	31224.3	25749.2	6435.0	2399.5	2259.2	2418.2	2574.0	2468.0	2355.8	2365.2	2371.4
62.5°	31959.8	25278.6	4827.0	2253.0	2159.5	2377.7	2630.1	2595.8	2480.5	2552.2	2564.6
65°	30741.3	23334.1	3499.5	2137.7	2072.3	2405.7	2798.3	2689.3	2436.9	2489.8	2489.8
67.5°	26662.2	20102.6	2723.6	2031.8	1972.6	2458.7	2966.6	2679.9	2334.0	2396.4	2340.3
70°	21149.7	15549.8	2268.6	1913.3	1866.6	2380.8	2982.2	2583.3	2212.5	2225.0	2119.0
72.5°	14035.4	10224.3	1950.7	1801.2	1704.6	2140.8	2854.4	2458.7	2094.1	2022.4	1916.5
75°	6877.5	5098.1	1701.4	1660.9	1492.7	1863.5	2679.9	2340.3	1966.3	1854.1	1794.9
77.5°	2664.4	2168.9	1452.1	1483.3	1299.5	1642.2	2449.3	2172.0	1798.0	1645.4	1598.6
80°	1293.2	1230.9	1190.4	1237.1	1068.9	1399.2	2237.4	2025.5	1642.2	1474.0	1405.4
82.5°	804.0	760.4	913.0	962.9	822.7	1277.6	2122.1	1900.9	1445.9	1221.6	1165.5
85°	408.2	436.3	610.8	657.5	589.0	1015.9	1748.2	1427.2	1043.9	866.3	872.5
87.5°	155.8	208.8	321.0	345.9	314.7	536.0	962.9	832.0	670.0	455.0	420.7
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)