

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: P522920

Luminaire Tested: **GALN-SA9C-727-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522920
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-SA9C-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53341 lumens
Efficiency: N/A
Efficacy: 110.9 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

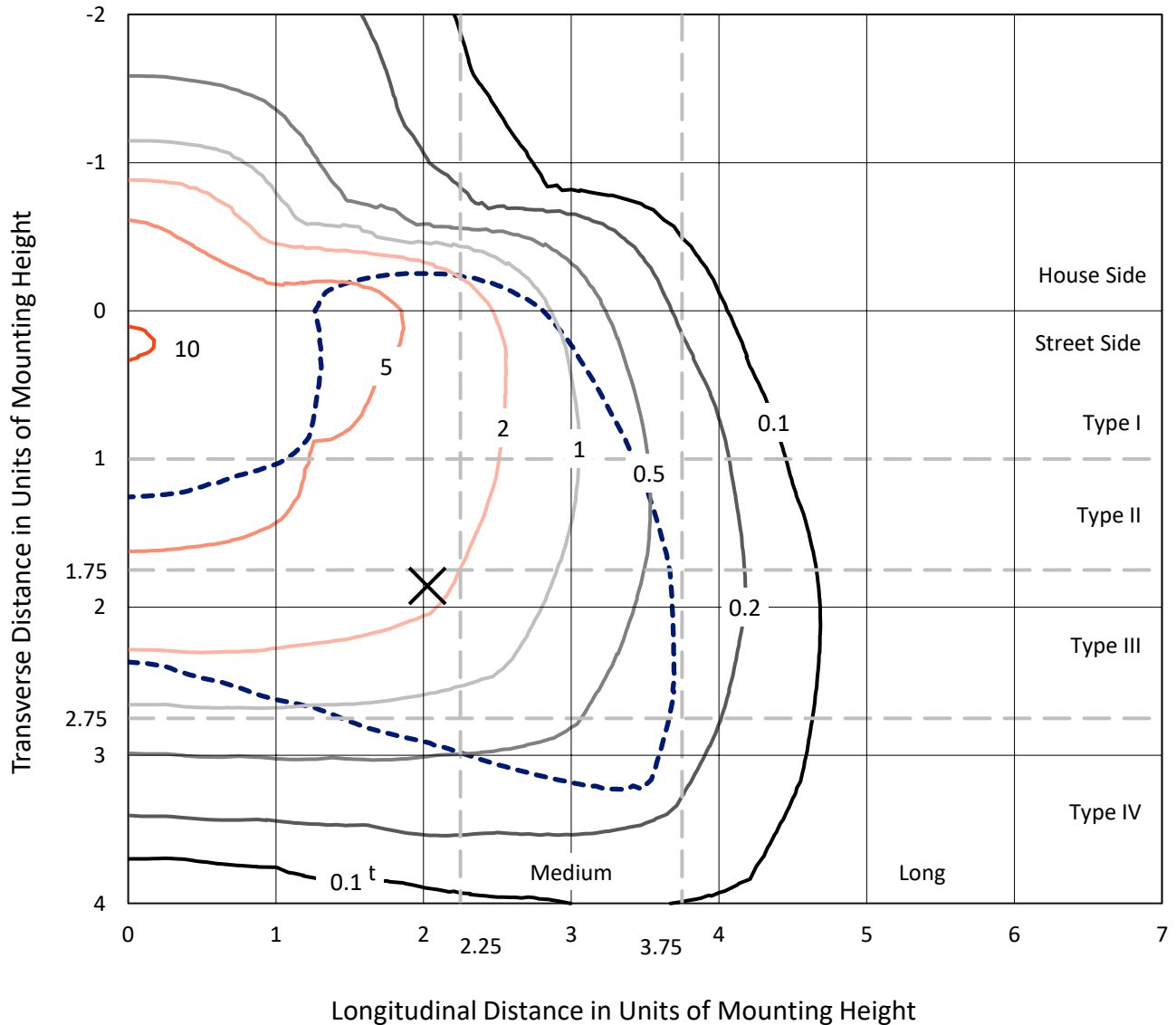
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

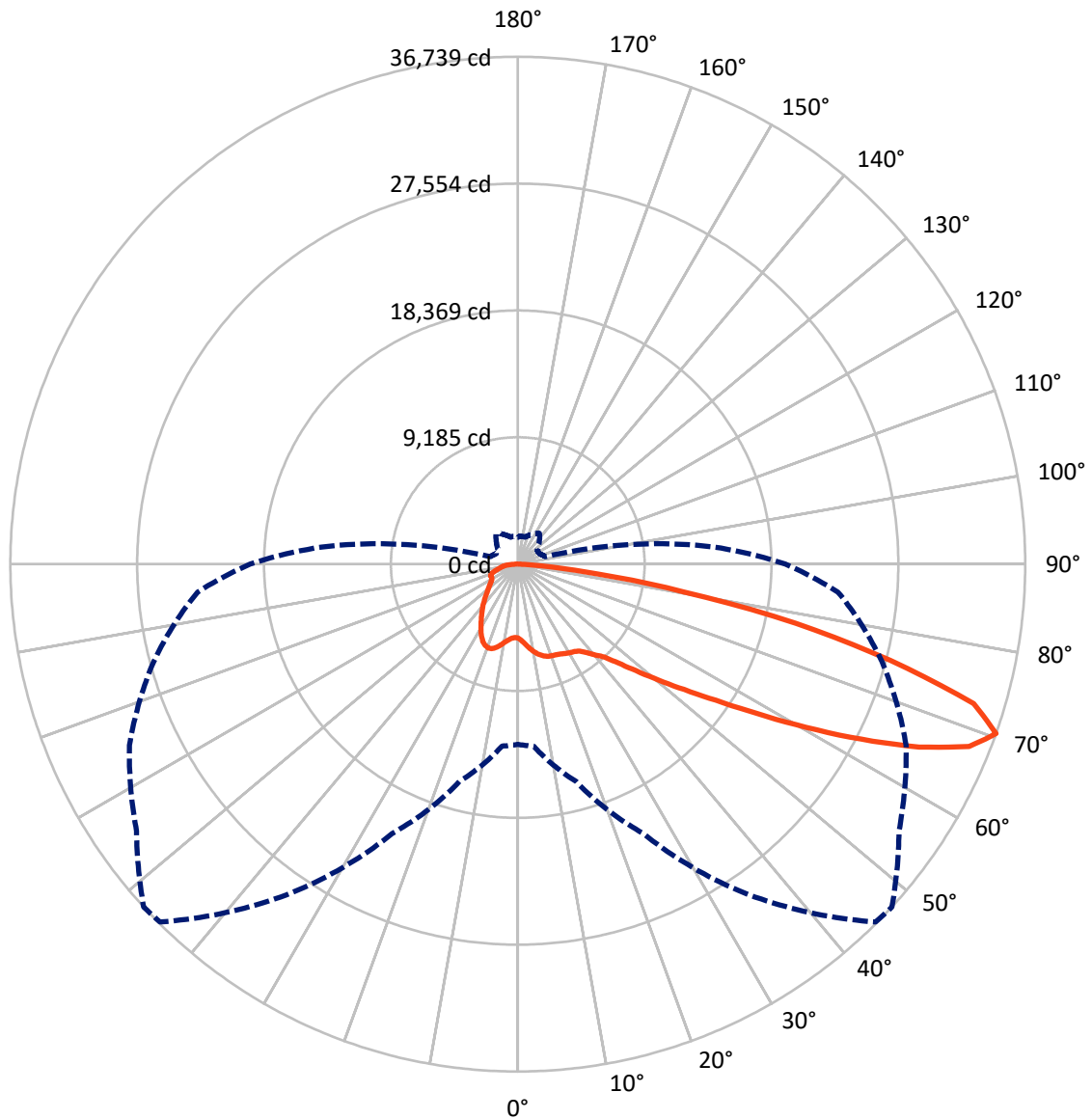
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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	12077.4	0.0	12077.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	41263.6	0.0	41263.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	53341.0	0.0	53341.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.0	1.0
10°-20°	1845.3	3.5
20°-30°	3068.7	5.8
30°-40°	4349.4	8.2
40°-50°	6420.6	12.0
50°-60°	11120.8	20.8
60°-70°	15708.4	29.4
70°-80°	9030.0	16.9
80°-90°	1245.9	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°	53341.0	100.0
0°-180°	53341.0	100.0

Coefficient of Utilization



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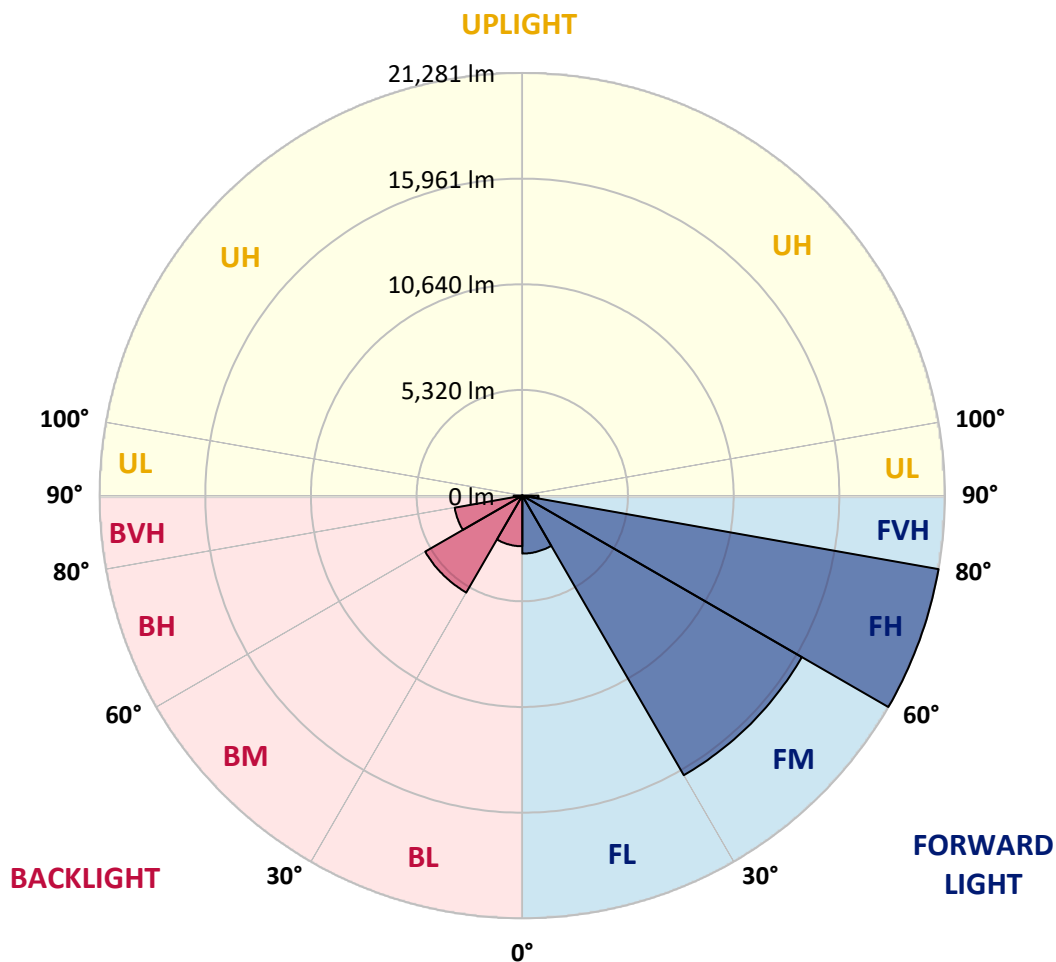
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2916.9	5.5			
FM	(30°-60°)	16252.0	30.5			
FH	(60°-80°)	21280.8	39.9			G5
FVH	(80°-90°)	813.9	1.5			G5
BL	(0°-30°)	2549.0	4.8	B4/5000		
BM	(30°-60°)	5638.7	10.6	B4/8500		
BH	(60°-80°)	3457.6	6.5	B4/5000		G4/5000
BVH	(80°-90°)	432.1	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°	5354.8	5354.8	5354.8	5354.8	5354.8	5354.8	5354.8	5354.8	5354.8	5354.8	5354.8
2.5°	5700.2	5680.2	5677.3	5634.5	5611.7	5568.9	5551.7	5511.8	5463.3	5414.7	5369.1
5°	6148.3	6148.3	6128.3	6068.4	5974.2	5877.1	5834.3	5757.3	5620.3	5508.9	5414.7
7.5°	6607.9	6613.6	6573.6	6485.1	6351.0	6194.0	6154.0	6039.8	5845.7	5683.0	5543.2
10°	7004.6	7004.6	6950.4	6830.5	6662.1	6490.8	6450.9	6322.4	6105.5	5902.8	5720.2
12.5°	7307.2	7307.2	7235.8	7078.8	6896.2	6742.0	6696.3	6573.6	6370.9	6145.5	5914.3
15°	7504.1	7489.9	7409.9	7233.0	7056.0	6921.8	6890.4	6787.7	6602.2	6373.8	6114.1
17.5°	7512.7	7507.0	7429.9	7281.5	7127.4	7036.0	7016.0	6947.5	6802.0	6585.0	6311.0
20°	7347.1	7358.6	7307.2	7201.6	7127.4	7087.4	7078.8	7056.0	6953.2	6750.6	6476.6
22.5°	7170.2	7190.2	7141.6	7084.5	7078.8	7118.8	7124.5	7130.2	7064.6	6867.6	6616.4
25°	7127.4	7141.6	7093.1	7041.7	7073.1	7178.7	7201.6	7224.4	7173.0	7007.5	6782.0
27.5°	7344.3	7332.9	7238.7	7127.4	7147.3	7290.1	7321.5	7347.1	7321.5	7178.7	6987.5
30°	7958.0	7920.9	7732.5	7407.1	7304.3	7404.2	7435.6	7507.0	7507.0	7401.4	7210.1
32.5°	8985.6	8914.2	8568.8	7929.4	7572.6	7512.7	7544.1	7661.1	7721.1	7638.3	7429.9
35°	10232.9	10158.7	9664.9	8805.7	8063.6	7729.6	7721.1	7852.4	8012.2	7826.7	7555.5
37.5°	11486.0	11408.9	10815.2	9850.4	8780.0	8186.3	8134.9	8180.6	8249.1	7909.5	7729.6
40°	12739.0	12647.7	12128.2	11017.9	9656.3	8791.5	8657.3	8451.8	8423.2	8180.6	8066.4
42.5°	13980.7	13897.9	13635.3	12328.0	10706.7	9382.3	9176.8	8822.9	8931.3	8785.7	8685.8
45°	15233.8	15239.5	14959.7	13798.0	11974.1	10472.7	10195.8	9642.1	9898.9	9844.7	9901.8
47.5°	16344.1	16329.8	16229.9	15225.2	13546.8	11877.0	11520.2	10878.0	11317.6	11517.4	11954.1
50°	17420.2	17411.6	17417.4	16843.6	15373.6	13546.8	13152.9	12479.3	13469.8	14163.4	14945.5
52.5°	18961.6	19010.1	18664.7	18513.4	17594.3	15519.2	15085.3	14388.9	16013.0	17106.2	18633.3
55°	20508.6	20468.7	20197.5	20354.5	19917.8	17854.1	17400.2	16846.5	18844.5	20040.5	22335.4
57.5°	21419.2	21433.5	21710.3	22478.1	22786.4	20765.5	20354.5	19926.3	22027.2	22874.9	25629.4
60°	22238.4	22304.0	23100.4	24550.4	25386.7	24342.1	23976.7	23560.0	24947.2	25284.0	28489.4
62.5°	22495.3	22697.9	24088.0	26257.3	27921.4	28378.1	27924.3	27005.2	27727.3	27596.0	30427.6
65°	21213.7	21490.5	23982.4	26896.7	30184.9	32208.7	31920.4	30213.5	30096.5	29305.8	30744.4
67.5°	17839.8	18116.7	21316.4	25555.2	31121.2	35525.5	35237.2	32554.1	31535.1	29465.6	28346.7
70°	13053.0	13227.1	16287.0	21516.2	29240.1	36638.7	36738.6	33695.8	31021.3	27293.5	23274.5
72.5°	7521.3	7906.6	10050.2	15136.7	23888.2	33824.3	34517.9	31321.0	27773.0	22769.3	16272.8
75°	3234.0	3242.6	4646.9	8349.0	16178.6	27187.9	27858.6	25963.3	21810.2	15744.7	8688.7
77.5°	1538.5	1567.0	2043.7	3727.8	8905.6	18784.6	20594.3	18342.2	13949.3	7564.1	3282.5
80°	999.0	1019.0	1250.2	1849.6	4367.2	10892.3	12153.9	10581.1	6154.0	2703.1	1415.8
82.5°	605.1	610.8	836.3	1130.3	2403.4	4932.3	5814.3	4592.7	2626.0	1618.4	833.5
85°	368.2	371.1	508.1	699.3	1458.6	1704.1	1749.7	1735.5	1541.4	1059.0	445.3
87.5°	177.0	182.7	262.6	331.1	573.7	528.1	499.5	579.4	727.9	570.9	191.2
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°	5354.8	5354.8	5354.8	5354.8	5354.8	5354.8	5354.8	5354.8	5354.8	5354.8	5354.8
2.5°	5349.1	5340.5	5320.5	5312.0	5306.3	5309.1	5306.3	5306.3	5309.1	5309.1	5309.1
5°	5374.8	5360.5	5329.1	5329.1	5346.2	5386.2	5423.3	5451.8	5483.2	5480.4	5480.4
7.5°	5486.1	5460.4	5423.3	5434.7	5477.5	5540.3	5606.0	5668.8	5731.6	5737.3	5734.4
10°	5648.8	5623.1	5583.1	5597.4	5665.9	5760.1	5842.9	5934.2	6002.7	6022.7	6017.0
12.5°	5834.3	5782.9	5748.7	5788.7	5897.1	6022.7	6102.6	6171.1	6219.7	6248.2	6236.8
15°	6022.7	5974.2	5934.2	6017.0	6148.3	6265.3	6305.3	6316.7	6325.3	6353.8	6348.1
17.5°	6205.4	6139.7	6125.5	6233.9	6359.5	6410.9	6388.1	6339.6	6302.4	6325.3	6322.4
20°	6368.1	6316.7	6311.0	6419.5	6468.0	6419.5	6322.4	6236.8	6171.1	6176.9	6174.0
22.5°	6522.2	6482.3	6488.0	6533.6	6456.6	6291.0	6131.2	6014.2	5942.8	5957.1	5965.6
25°	6693.5	6653.5	6667.8	6593.6	6339.6	6051.3	5820.1	5720.2	5691.6	5720.2	5740.1
27.5°	6916.1	6890.4	6881.9	6596.4	6131.2	5697.3	5434.7	5397.6	5423.3	5486.1	5517.5
30°	7155.9	7155.9	7110.2	6547.9	5845.7	5272.0	5043.7	5049.4	5137.9	5226.3	5257.7
32.5°	7387.1	7435.6	7292.9	6416.6	5477.5	4858.1	4684.0	4689.7	4766.8	4875.3	4903.8
35°	7578.3	7718.2	7449.9	6176.9	5043.7	4509.9	4378.6	4301.5	4304.4	4387.2	4410.0
37.5°	7840.9	8100.7	7541.2	5820.1	4581.3	4213.0	4064.6	3930.5	3842.0	3807.7	3807.7
40°	8297.6	8680.1	7564.1	5292.0	4144.5	3930.5	3719.2	3559.4	3388.1	3234.0	3205.5
42.5°	9071.2	9553.6	7518.4	4684.0	3750.6	3619.3	3413.8	3216.9	2980.0	2763.0	2745.9
45°	10441.3	10689.6	7395.7	4053.2	3399.6	3319.6	3119.8	2905.7	2654.6	2460.5	2446.2
47.5°	12636.3	12285.2	7233.0	3493.7	3079.9	3057.0	2902.9	2654.6	2403.4	2269.2	2255.0
50°	15841.7	14797.0	7210.1	3088.4	2823.0	2834.4	2708.8	2480.4	2260.7	2149.3	2132.2
52.5°	19700.8	17831.2	7361.4	2803.0	2597.5	2640.3	2577.5	2366.3	2172.2	2078.0	2060.9
55°	23445.8	20560.0	7452.8	2580.3	2386.3	2466.2	2474.7	2297.8	2120.8	2026.6	2015.2
57.5°	26485.7	22615.2	7047.4	2377.7	2203.6	2326.3	2389.1	2257.8	2095.1	2023.7	2012.3
60°	28600.8	23585.6	5894.3	2197.9	2069.4	2215.0	2357.7	2260.7	2157.9	2166.5	2172.2
62.5°	29274.4	23154.6	4421.4	2063.7	1978.1	2177.9	2409.1	2377.7	2272.1	2337.7	2349.1
65°	28158.3	21373.5	3205.5	1958.1	1898.2	2203.6	2563.2	2463.3	2232.1	2280.6	2280.6
67.5°	24422.0	18413.5	2494.7	1861.0	1806.8	2252.1	2717.4	2454.8	2137.9	2195.0	2143.6
70°	19372.6	14243.3	2078.0	1752.6	1709.8	2180.7	2731.6	2366.3	2026.6	2038.0	1941.0
72.5°	12856.1	9365.2	1786.8	1649.8	1561.3	1961.0	2614.6	2252.1	1918.1	1852.5	1755.4
75°	6299.6	4669.7	1558.5	1521.4	1367.2	1706.9	2454.8	2143.6	1801.1	1698.3	1644.1
77.5°	2440.5	1986.6	1330.1	1358.7	1190.3	1504.3	2243.5	1989.5	1647.0	1507.1	1464.3
80°	1184.6	1127.5	1090.4	1133.2	979.0	1281.6	2049.4	1855.3	1504.3	1350.1	1287.3
82.5°	736.4	696.5	836.3	882.0	753.6	1170.3	1943.8	1741.2	1324.4	1118.9	1067.5
85°	373.9	399.6	559.5	602.3	539.5	930.5	1601.3	1307.3	956.2	793.5	799.2
87.5°	142.7	191.2	294.0	316.8	288.3	491.0	882.0	762.1	613.7	416.7	385.3
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)