

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: P459316

Luminaire Tested: **GALN-SA7D-735-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51154 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 II - Short
BUG Rating: B3 - U0 - G5

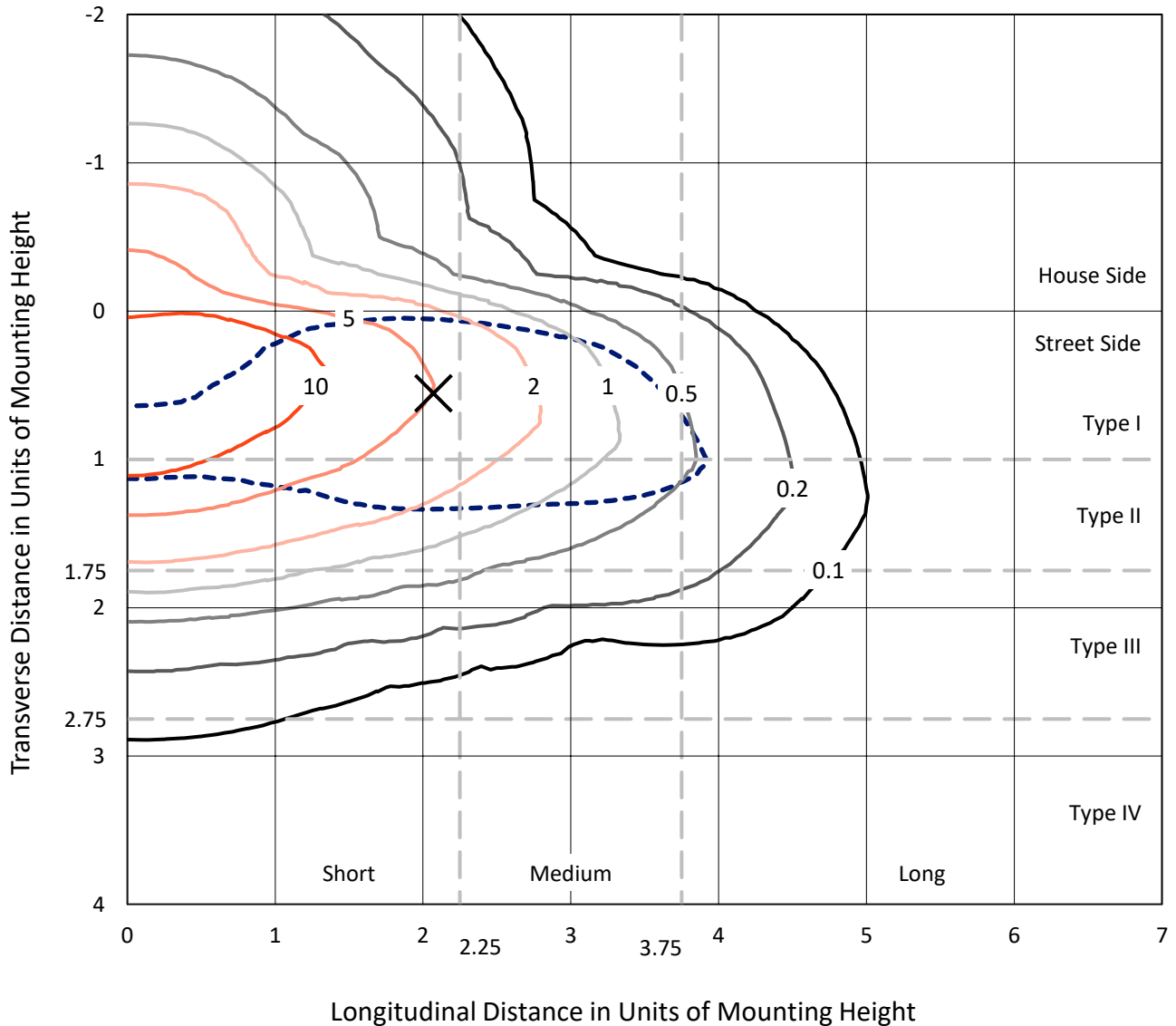
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

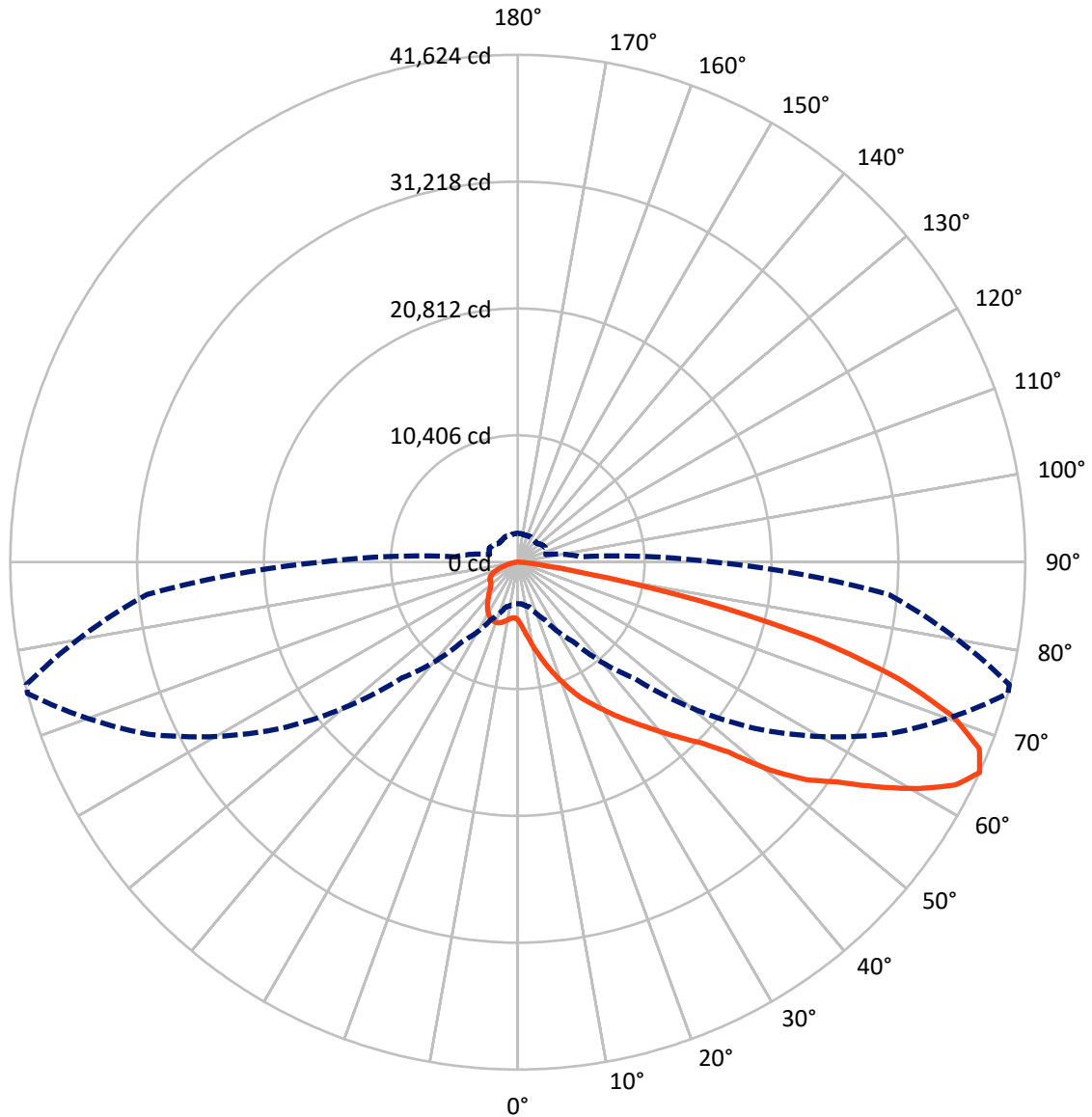
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8599.7	0.0	8599.7
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	42554.3	0.0	42554.3
	% Fixture	83.2	0.0	83.2
Total	Lumens	51154.0	0.0	51154.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.5	1.1
10°-20°	2261.8	4.4
20°-30°	4369.1	8.5
30°-40°	7096.7	13.9
40°-50°	9762.1	19.1
50°-60°	11525.8	22.5
60°-70°	10098.5	19.7
70°-80°	4821.1	9.4
80°-90°	641.5	1.3
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°	51154.0	100.0
0°-180°	51154.0	100.0

Coefficient of Utilization



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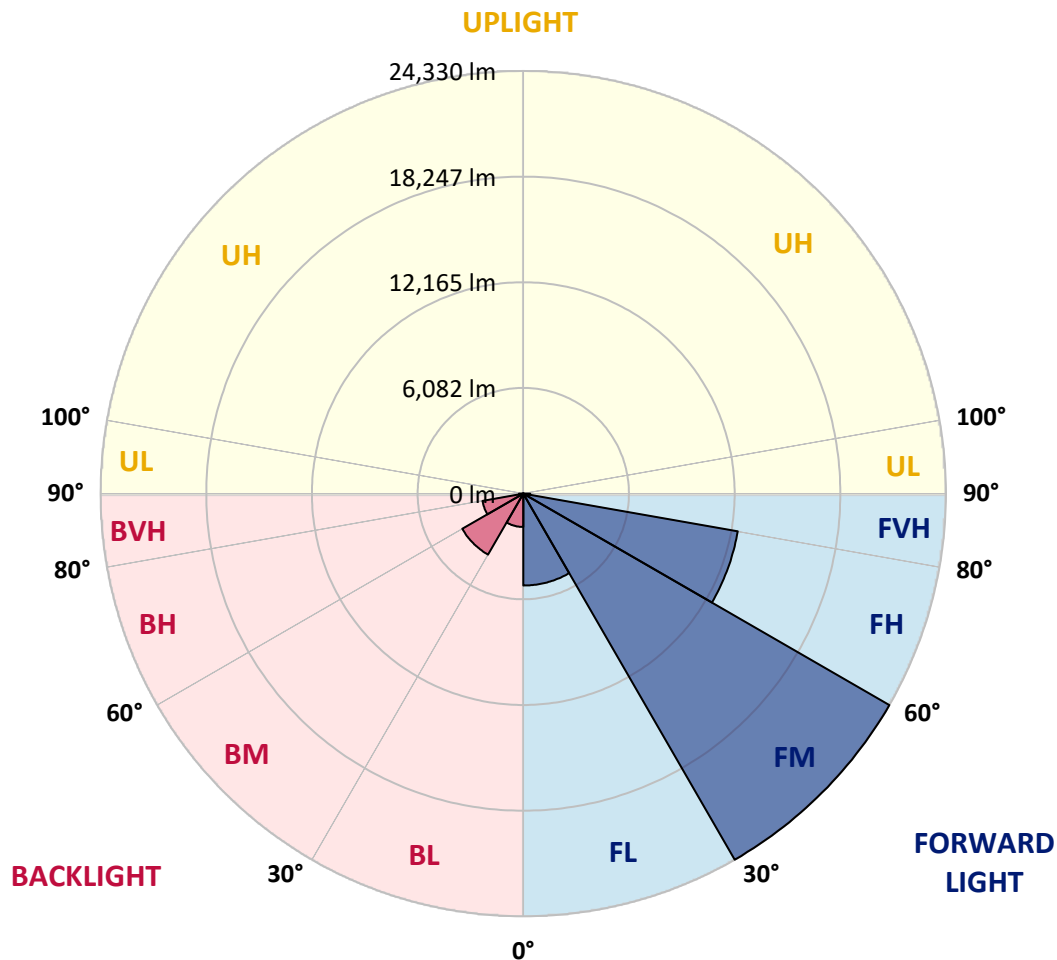
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5288.5	10.3			
FM	(30°-60°)	24329.9	47.6			
FH	(60°-80°)	12535.0	24.5			G5
FVH	(80°-90°)	400.9	0.8			G3/500
BL	(0°-30°)	1919.8	3.8	B3/2500		
BM	(30°-60°)	4054.7	7.9	B3/5000		
BH	(60°-80°)	2384.5	4.7	B3/2500		G3/2500
BVH	(80°-90°)	240.6	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4752.9	4752.9	4752.9	4752.9	4752.9	4752.9	4752.9	4752.9	4752.9	4752.9	4752.9
2.5°	6314.9	6273.3	6228.9	6106.8	5976.4	5829.4	5618.5	5416.0	5146.8	5138.5	4938.7
5°	8065.7	8038.0	7841.0	7727.2	7424.8	7022.5	6681.2	6151.2	5660.1	5601.9	5213.4
7.5°	9675.0	9566.7	9491.8	9286.5	8986.9	8470.8	7810.4	7094.6	6273.3	6195.6	5551.9
10°	10887.4	10876.3	10837.5	10659.9	10435.2	9921.9	9189.4	8162.8	7050.2	6897.6	5962.6
12.5°	11794.7	11803.1	11797.5	11794.7	11633.8	11198.2	10404.7	9322.6	7835.4	7727.2	6437.0
15°	12391.3	12474.5	12507.8	12646.5	12660.4	12369.1	11686.5	10443.5	8720.5	8559.6	6947.5
17.5°	12785.3	12826.9	12982.3	13218.1	13409.5	13356.8	12749.2	11481.2	9625.0	9355.9	7477.5
20°	13162.6	13234.7	13354.0	13675.9	14014.4	14169.8	13742.5	12543.9	10521.2	10349.2	8062.9
22.5°	13947.8	14050.5	14092.1	14255.8	14544.3	14819.0	14624.8	13562.1	11503.4	11270.3	8684.4
25°	15276.8	15385.0	15268.5	15229.7	15324.0	15460.0	15418.3	14522.1	12430.1	12097.2	9272.6
27.5°	17008.2	17022.0	16794.5	16578.1	16345.0	16275.7	16148.0	15373.9	13234.7	12957.3	9863.6
30°	18867.1	18800.5	18423.2	18032.0	17638.0	17249.6	16883.3	16195.2	14130.9	13811.9	10443.5
32.5°	20592.9	20556.9	20137.9	19530.3	18864.4	18498.1	17757.3	17024.8	15090.9	14783.0	11040.0
35°	21885.9	21938.6	21478.0	20814.9	20087.9	19763.3	18828.3	17896.0	16084.2	15748.5	11689.3
37.5°	22804.3	22776.5	22368.7	21794.3	21156.2	20873.2	20079.6	18847.7	17152.4	16830.6	12399.6
40°	23131.7	23115.0	22812.6	22393.6	21988.5	21888.6	21389.2	19874.3	18376.0	17998.7	13254.2
42.5°	22923.6	22959.6	22759.9	22646.1	22571.2	22643.3	22690.5	21220.0	19710.6	19363.8	14180.9
45°	22285.4	22266.0	22238.2	22424.1	22845.9	23320.3	23977.9	22490.7	21161.7	20884.3	15423.9
47.5°	21145.1	21283.8	21353.2	21866.5	22787.6	23911.3	25459.5	24194.3	23267.6	23026.2	17318.9
50°	19549.7	19660.7	20071.3	20984.1	22357.6	24133.3	26907.9	26980.0	26780.2	26328.0	19377.7
52.5°	17058.1	17230.1	18076.4	19749.4	21475.2	24041.7	27784.6	29368.9	29632.5	29294.0	21405.9
55°	14269.7	14511.0	15404.5	17599.2	20260.0	23542.3	28389.5	30753.4	31805.0	31491.5	23359.2
57.5°	11539.5	11794.7	12713.1	14838.4	18140.2	22438.0	28786.3	32296.1	34762.7	34354.8	25789.7
60°	8648.4	8914.7	9702.7	11891.8	15121.5	20279.4	28517.1	33633.4	37717.6	37542.8	28223.0
62.5°	5579.7	5873.8	6559.1	8370.9	11622.7	17330.0	27077.1	34371.5	40275.8	40064.9	29998.7
65°	3398.9	3432.2	3809.5	5196.8	7954.7	13417.9	23783.7	33392.1	41624.2	41560.4	30539.8
67.5°	2197.5	2250.2	2422.2	3113.1	4769.5	9319.8	19017.0	30159.7	40836.2	40814.0	29421.6
70°	1856.2	1872.8	1950.5	2100.4	2771.8	5651.8	13354.0	25007.3	37842.5	37842.5	26733.1
72.5°	1659.2	1681.4	1709.1	1756.3	1978.3	3201.9	7968.6	19466.4	32673.4	32889.9	22754.3
75°	1506.6	1501.0	1517.7	1526.0	1686.9	2092.0	4120.2	14397.3	25276.4	24843.6	16478.2
77.5°	1290.2	1298.5	1290.2	1326.2	1489.9	1592.6	2092.0	9661.1	15318.4	14758.0	8271.0
80°	1059.9	1073.8	1087.6	1109.8	1273.5	1209.7	1256.9	4403.3	5665.7	5546.4	2555.4
82.5°	796.3	815.7	837.9	890.6	1001.6	799.1	793.5	1881.2	2044.9	1872.8	940.6
85°	321.9	380.1	574.3	627.1	629.8	438.4	488.3	785.2	835.1	815.7	369.0
87.5°	74.9	88.8	185.9	280.2	258.0	163.7	180.3	255.3	291.3	269.1	124.9
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°	4752.9	4752.9	4752.9	4752.9	4752.9	4752.9	4752.9	4752.9	4752.9	4752.9	4752.9
2.5°	4847.2	4750.1	4583.6	4456.0	4364.4	4283.9	4234.0	4203.5	4192.4	4189.6	4192.4
5°	5010.9	4838.9	4575.3	4408.8	4317.2	4264.5	4234.0	4231.2	4234.0	4236.8	4228.5
7.5°	5235.6	4988.7	4644.6	4489.3	4419.9	4381.1	4367.2	4361.6	4364.4	4361.6	4361.6
10°	5535.3	5196.8	4780.6	4619.7	4561.4	4517.0	4494.8	4480.9	4469.8	4458.7	4453.2
12.5°	5865.5	5427.1	4927.7	4772.3	4689.0	4619.7	4569.7	4533.7	4508.7	4483.7	4478.2
15°	6234.5	5671.2	5091.4	4874.9	4755.6	4653.0	4567.0	4508.7	4464.3	4428.2	4425.5
17.5°	6586.8	5901.5	5202.3	4922.1	4747.3	4603.0	4489.3	4408.8	4353.3	4306.1	4300.6
20°	6964.2	6120.7	5252.3	4891.6	4664.1	4489.3	4339.4	4242.3	4178.5	4125.8	4117.5
22.5°	7344.3	6306.6	5246.7	4794.5	4519.8	4314.5	4156.3	4053.7	3978.7	3926.0	3906.6
25°	7707.8	6456.4	5177.4	4639.1	4320.0	4106.4	3945.5	3851.1	3784.5	3720.7	3720.7
27.5°	8035.2	6545.2	5047.0	4450.4	4114.7	3890.0	3762.3	3676.3	3615.3	3573.7	3548.7
30°	8357.0	6586.8	4869.4	4211.8	3898.3	3706.8	3604.2	3554.2	3498.7	3451.6	3446.0
32.5°	8645.6	6578.5	4647.4	3978.7	3693.0	3557.0	3515.4	3476.5	3418.3	3351.7	3335.0
35°	8925.8	6523.0	4383.8	3723.5	3520.9	3468.2	3479.3	3423.8	3318.4	3235.2	3221.3
37.5°	9231.0	6423.1	4095.3	3515.4	3376.7	3426.6	3454.4	3332.3	3160.2	3029.8	2999.3
40°	9583.4	6309.4	3795.6	3307.3	3262.9	3387.8	3387.8	3163.0	2927.2	2846.7	2824.5
42.5°	9996.8	6215.1	3545.9	3132.5	3168.6	3293.4	3279.6	2938.3	2841.2	2799.5	2788.5
45°	10651.6	6181.8	3287.9	2979.9	3090.9	3182.4	3068.7	2860.6	2805.1	2771.8	2760.7
47.5°	11686.5	6220.6	3060.4	2866.1	3002.1	3071.5	2832.8	2807.9	2769.0	2721.9	2716.3
50°	12646.5	6184.5	2899.4	2802.3	2924.4	2938.3	2735.7	2744.1	2721.9	2669.1	2658.0
52.5°	13431.7	6070.8	2796.8	2769.0	2857.8	2705.2	2644.2	2674.7	2666.4	2599.8	2588.7
55°	14294.6	6001.4	2746.8	2769.0	2813.4	2502.7	2558.2	2602.6	2591.5	2544.3	2541.5
57.5°	15340.6	6015.3	2710.8	2777.4	2769.0	2400.0	2472.1	2524.9	2522.1	2508.2	2508.2
60°	16411.6	6020.8	2655.3	2774.6	2716.3	2319.5	2383.4	2458.3	2463.8	2472.1	2472.1
62.5°	16766.8	5779.4	2547.1	2724.6	2599.8	2241.9	2300.1	2402.8	2397.2	2419.4	2422.2
65°	16103.7	5110.8	2386.1	2610.9	2450.0	2186.4	2236.3	2330.6	2300.1	2358.4	2369.5
67.5°	14658.1	4228.5	2136.4	2405.6	2283.5	2128.1	2194.7	2230.8	2175.3	2289.0	2291.8
70°	12668.7	3301.7	1820.1	2114.2	2094.8	2067.1	2161.4	2105.9	2028.2	2166.9	2139.2
72.5°	10593.3	2522.1	1453.9	1728.6	1842.3	1975.5	2103.1	1945.0	1836.8	1878.4	1828.4
75°	7957.5	1864.5	1168.1	1354.0	1534.3	1845.1	2050.4	1750.8	1584.3	1545.4	1534.3
77.5°	4056.4	1218.0	874.0	1012.7	1151.5	1667.5	1978.3	1523.2	1312.4	1251.3	1223.6
80°	1448.3	757.5	616.0	699.2	776.9	1434.5	1728.6	1259.7	1018.3	1007.2	1018.3
82.5°	671.4	488.3	413.4	457.8	460.6	957.2	1317.9	940.6	774.1	1176.4	993.3
85°	288.6	244.2	233.1	227.5	210.9	427.3	740.8	505.0	788.0	352.4	324.6
87.5°	86.0	97.1	86.0	63.8	47.2	47.2	74.9	27.7	19.4	13.9	13.9
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)