

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: P457170

Luminaire Tested: **GALN-SA8C-727-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457170
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-SA8C-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48386 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

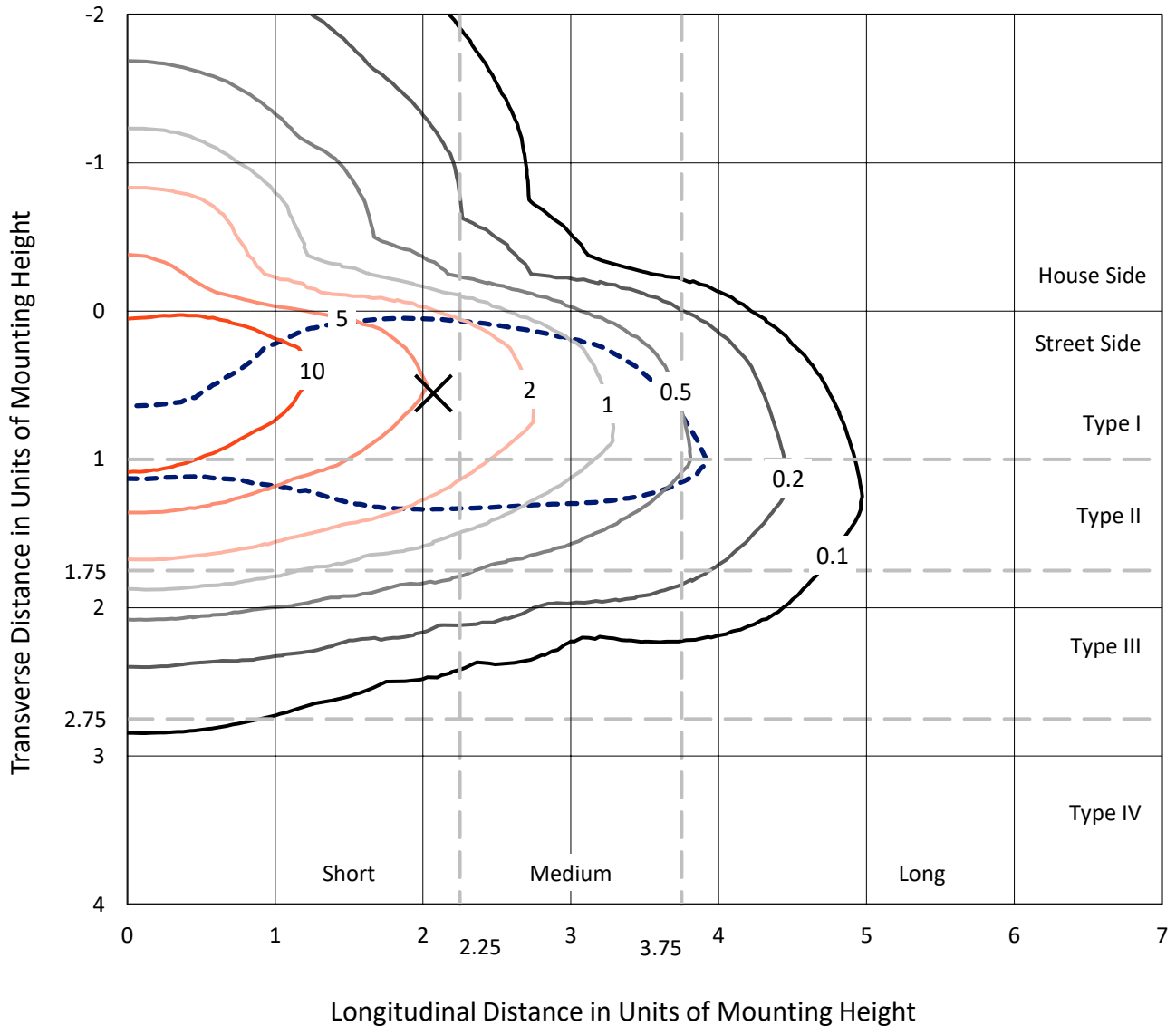
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

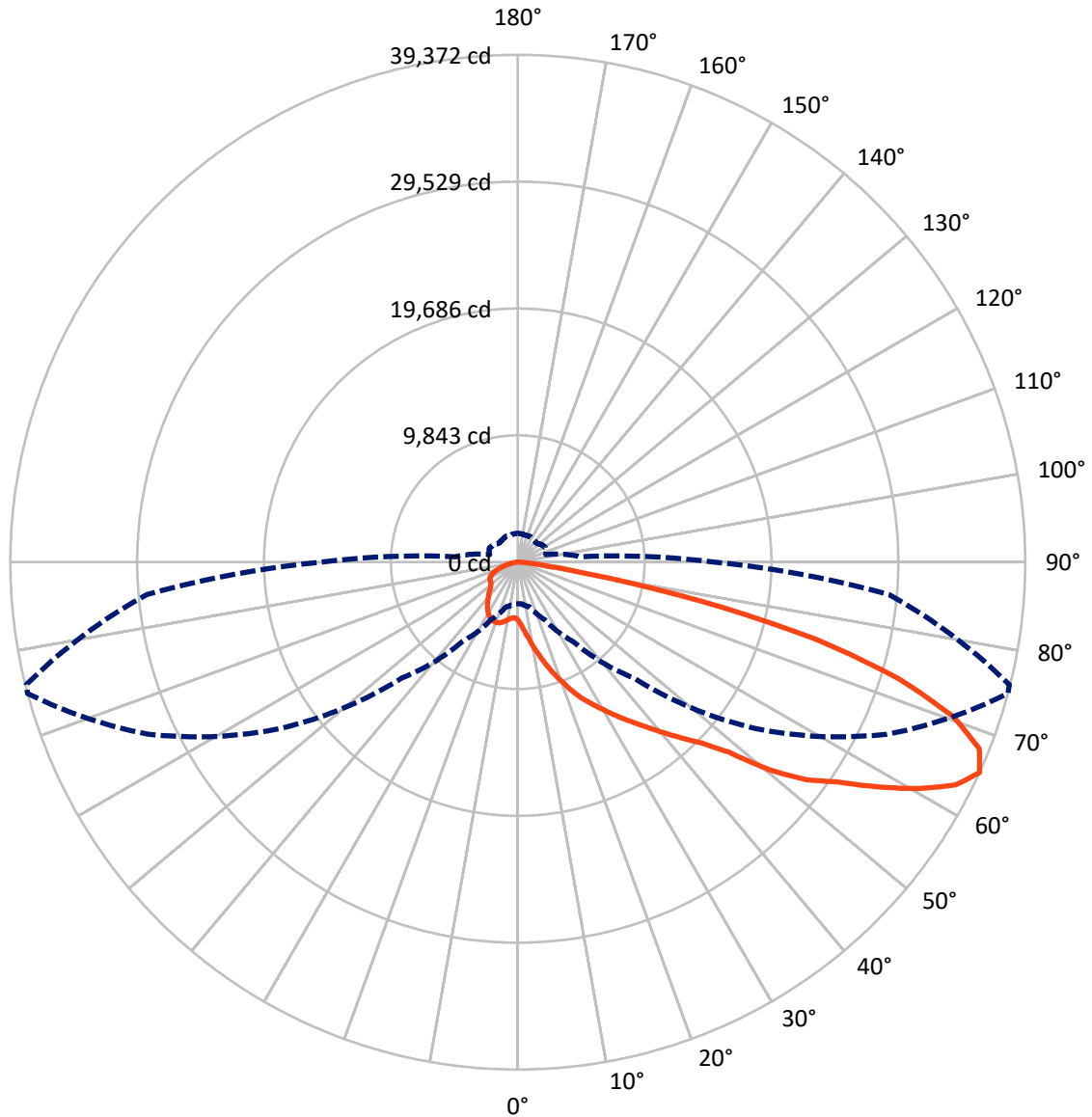
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 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	8134.3	0.0	8134.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	40251.7	0.0	40251.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	48386.0	0.0	48386.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	546.2	1.1
10°-20°	2139.4	4.4
20°-30°	4132.6	8.5
30°-40°	6712.7	13.9
40°-50°	9233.9	19.1
50°-60°	10902.1	22.5
60°-70°	9552.0	19.7
70°-80°	4560.2	9.4
80°-90°	606.8	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°	48386.0	100.0
0°-180°	48386.0	100.0

Coefficient of Utilization



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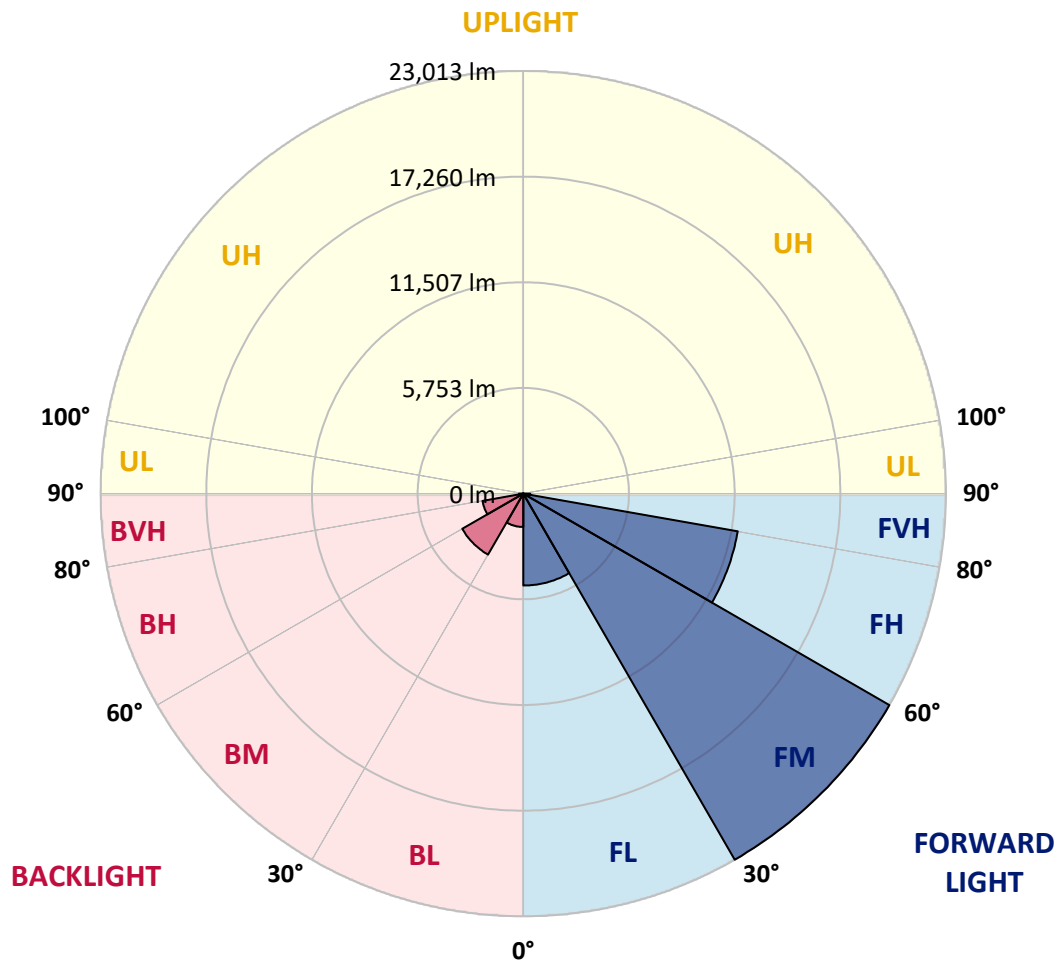
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5002.3	10.3			
FM	(30°-60°)	23013.4	47.6			
FH	(60°-80°)	11856.7	24.5			G4/12000
FVH	(80°-90°)	379.2	0.8			G3/500
BL	(0°-30°)	1816.0	3.8	B3/2500		
BM	(30°-60°)	3835.3	7.9	B3/5000		
BH	(60°-80°)	2255.5	4.7	B3/2500		G3/2500
BVH	(80°-90°)	227.6	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4495.7	4495.7	4495.7	4495.7	4495.7	4495.7	4495.7	4495.7	4495.7	4495.7	4495.7
2.5°	5973.2	5933.9	5891.9	5776.4	5653.0	5514.0	5314.5	5122.9	4868.3	4860.5	4671.5
5°	7629.3	7603.0	7416.7	7309.1	7023.0	6642.5	6319.7	5818.4	5353.9	5298.8	4931.3
7.5°	9151.4	9049.1	8978.2	8784.0	8500.6	8012.4	7387.8	6710.7	5933.9	5860.4	5251.5
10°	10298.3	10287.8	10251.1	10083.1	9870.5	9385.0	8692.2	7721.1	6668.7	6524.4	5639.9
12.5°	11156.5	11164.4	11159.1	11156.5	11004.3	10592.3	9841.7	8818.1	7411.4	7309.1	6088.7
15°	11720.8	11799.5	11831.0	11962.2	11975.3	11699.8	11054.2	9878.4	8248.6	8096.4	6571.6
17.5°	12093.4	12132.8	12279.8	12502.8	12683.9	12634.1	12059.3	10859.9	9104.2	8849.6	7072.9
20°	12450.4	12518.6	12631.4	12935.9	13256.1	13403.0	12998.9	11865.1	9951.9	9789.2	7626.6
22.5°	13193.1	13290.2	13329.5	13484.4	13757.3	14017.1	13833.4	12828.3	10880.9	10660.5	8214.5
25°	14450.2	14552.5	14442.3	14405.6	14494.8	14623.4	14584.0	13736.3	11757.5	11442.6	8770.9
27.5°	16087.8	16101.0	15885.8	15681.0	15460.6	15395.0	15274.3	14542.0	12518.6	12256.1	9329.9
30°	17846.2	17783.2	17426.3	17056.3	16683.6	16316.2	15969.7	15318.9	13366.3	13064.5	9878.4
32.5°	19478.6	19444.5	19048.2	18473.5	17843.6	17497.2	16796.4	16103.6	14274.3	13983.0	10442.7
35°	20701.6	20751.5	20315.8	19688.6	19001.0	18693.9	17809.5	16927.7	15213.9	14896.3	11056.8
37.5°	21570.3	21544.1	21158.3	20615.0	20011.4	19743.7	18993.1	17827.8	16224.3	15919.9	11728.6
40°	21880.0	21864.2	21578.2	21181.9	20798.7	20704.2	20231.8	18798.9	17381.7	17024.8	12537.0
42.5°	21683.1	21717.3	21528.3	21420.7	21349.8	21418.1	21462.7	20071.7	18644.0	18316.0	13413.5
45°	21079.5	21061.2	21034.9	21210.7	21609.7	22058.4	22680.4	21273.7	20016.6	19754.2	14589.3
47.5°	20000.9	20132.1	20197.7	20683.2	21554.5	22617.4	24081.9	22885.1	22008.6	21780.3	16381.8
50°	18491.8	18596.8	18985.2	19848.7	21147.8	22827.4	25451.8	25520.1	25331.1	24903.3	18329.1
52.5°	16135.1	16297.8	17098.2	18680.8	20313.2	22740.8	26281.2	27779.7	28029.0	27708.9	20247.6
55°	13497.5	13725.8	14570.9	16646.8	19163.7	22268.4	26853.3	29089.3	30084.0	29787.4	22095.2
57.5°	10915.1	11156.5	12025.2	14035.5	17158.6	21223.9	27228.6	30548.5	32881.6	32495.9	24394.2
60°	8180.4	8432.3	9177.7	11248.4	14303.2	19182.1	26974.0	31813.5	35676.7	35511.3	26695.8
62.5°	5277.8	5555.9	6204.2	7917.9	10993.8	16392.3	25611.9	32511.6	38096.4	37897.0	28375.5
65°	3214.9	3246.4	3603.4	4915.6	7524.3	12691.8	22496.7	31585.2	39371.9	39311.5	28887.2
67.5°	2078.6	2128.4	2291.1	2944.6	4511.4	8815.5	17987.9	28527.7	38626.5	38605.6	27829.6
70°	1755.8	1771.5	1845.0	1986.7	2621.8	5346.0	12631.4	23654.1	35794.8	35794.8	25286.5
72.5°	1569.4	1590.4	1616.7	1661.3	1871.2	3028.6	7537.4	18413.1	30905.4	31110.1	21523.1
75°	1425.1	1419.8	1435.6	1443.4	1595.7	1978.8	3897.3	13618.2	23908.7	23499.3	15586.6
77.5°	1220.4	1228.2	1220.4	1254.5	1409.3	1506.4	1978.8	9138.3	14489.5	13959.4	7823.5
80°	1002.5	1015.7	1028.8	1049.8	1204.6	1144.3	1188.9	4165.0	5359.1	5246.3	2417.1
82.5°	753.2	771.6	792.6	842.4	947.4	755.8	750.6	1779.4	1934.2	1771.5	889.7
85°	304.4	359.5	543.3	593.1	595.7	414.7	461.9	742.7	790.0	771.6	349.1
87.5°	70.9	84.0	175.8	265.1	244.1	154.8	170.6	241.4	275.6	254.6	118.1
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°	4495.7	4495.7	4495.7	4495.7	4495.7	4495.7	4495.7	4495.7	4495.7	4495.7	4495.7
2.5°	4584.9	4493.0	4335.6	4214.9	4128.2	4052.1	4004.9	3976.0	3965.5	3962.9	3965.5
5°	4739.7	4577.0	4327.7	4170.2	4083.6	4033.8	4004.9	4002.3	4004.9	4007.5	3999.7
7.5°	4952.3	4718.7	4393.3	4246.3	4180.7	4144.0	4130.9	4125.6	4128.2	4125.6	4125.6
10°	5235.8	4915.6	4521.9	4369.7	4314.6	4272.6	4251.6	4238.5	4228.0	4217.5	4212.2
12.5°	5548.1	5133.4	4661.0	4514.0	4435.3	4369.7	4322.5	4288.3	4264.7	4241.1	4235.9
15°	5897.1	5364.4	4815.9	4611.1	4498.3	4401.2	4319.8	4264.7	4222.7	4188.6	4186.0
17.5°	6230.4	5582.2	4920.8	4655.8	4490.4	4354.0	4246.3	4170.2	4117.8	4073.1	4067.9
20°	6587.4	5789.5	4968.1	4626.9	4411.7	4246.3	4104.6	4012.8	3952.4	3902.5	3894.7
22.5°	6946.9	5965.4	4962.8	4535.0	4275.2	4081.0	3931.4	3834.3	3763.5	3713.6	3695.2
25°	7290.7	6107.1	4897.2	4388.1	4086.3	3884.2	3732.0	3642.7	3579.7	3519.4	3519.4
27.5°	7600.4	6191.1	4773.9	4209.6	3892.0	3679.5	3558.7	3477.4	3419.6	3380.3	3356.7
30°	7904.8	6230.4	4605.9	3983.9	3687.3	3506.3	3409.2	3361.9	3309.4	3264.8	3259.6
32.5°	8177.8	6222.6	4395.9	3763.5	3493.1	3364.5	3325.2	3288.4	3233.3	3170.3	3154.6
35°	8442.8	6170.1	4146.6	3522.0	3330.4	3280.6	3291.1	3238.6	3138.8	3060.1	3047.0
37.5°	8731.5	6075.6	3873.7	3325.2	3193.9	3241.2	3267.4	3152.0	2989.2	2865.9	2837.0
40°	9064.8	5968.0	3590.2	3128.3	3086.3	3204.4	3204.4	2991.9	2768.8	2692.7	2671.7
42.5°	9455.9	5878.8	3354.0	2963.0	2997.1	3115.2	3102.1	2779.3	2687.4	2648.1	2637.6
45°	10075.2	5847.3	3110.0	2818.7	2923.6	3010.2	2902.6	2705.8	2653.3	2621.8	2611.3
47.5°	11054.2	5884.0	2894.8	2711.0	2839.6	2905.3	2679.6	2655.9	2619.2	2574.6	2569.3
50°	11962.2	5849.9	2742.5	2650.7	2766.2	2779.3	2587.7	2595.6	2574.6	2524.7	2514.2
52.5°	12704.9	5742.3	2645.4	2619.2	2703.2	2558.8	2501.1	2530.0	2522.1	2459.1	2448.6
55°	13521.1	5676.7	2598.2	2619.2	2661.2	2367.2	2419.7	2461.7	2451.2	2406.6	2404.0
57.5°	14510.5	5689.8	2564.1	2627.1	2619.2	2270.1	2338.4	2388.2	2385.6	2372.5	2372.5
60°	15523.6	5695.0	2511.6	2624.4	2569.3	2194.0	2254.4	2325.3	2330.5	2338.4	2338.4
62.5°	15859.5	5466.7	2409.2	2577.2	2459.1	2120.5	2175.7	2272.8	2267.5	2288.5	2291.1
65°	15232.3	4834.2	2257.0	2469.6	2317.4	2068.1	2115.3	2204.5	2175.7	2230.8	2241.3
67.5°	13864.9	3999.7	2020.8	2275.4	2159.9	2012.9	2075.9	2110.1	2057.6	2165.2	2167.8
70°	11983.2	3123.1	1721.6	1999.8	1981.5	1955.2	2044.4	1992.0	1918.5	2049.7	2023.4
72.5°	10020.1	2385.6	1375.2	1635.0	1742.6	1868.6	1989.3	1839.7	1737.4	1776.7	1729.5
75°	7526.9	1763.6	1104.9	1280.7	1451.3	1745.3	1939.5	1656.0	1498.6	1461.8	1451.3
77.5°	3836.9	1152.1	826.7	957.9	1089.1	1577.3	1871.2	1440.8	1241.4	1183.6	1157.4
80°	1370.0	716.5	582.6	661.4	734.8	1356.8	1635.0	1191.5	963.2	952.7	963.2
82.5°	635.1	461.9	391.0	433.0	435.7	905.4	1246.6	889.7	732.2	1112.8	939.6
85°	272.9	231.0	220.5	215.2	199.5	404.2	700.7	477.6	745.3	333.3	307.1
87.5°	81.4	91.9	81.4	60.4	44.6	44.6	70.9	26.2	18.4	13.1	13.1
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)