

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: P458098

Luminaire Tested: **GALN-SA9C-727-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458098
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-SA9C-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 54322 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

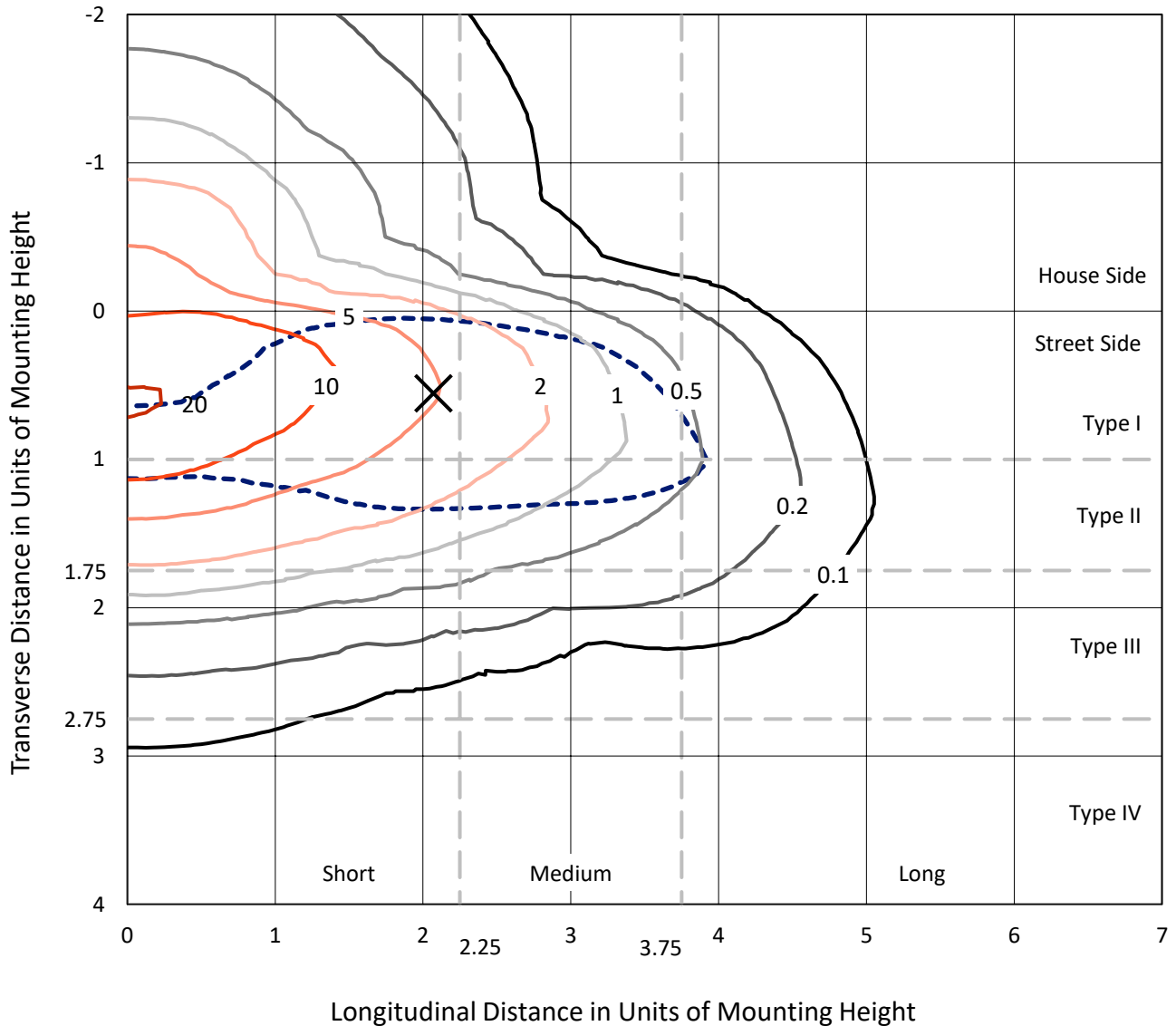
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

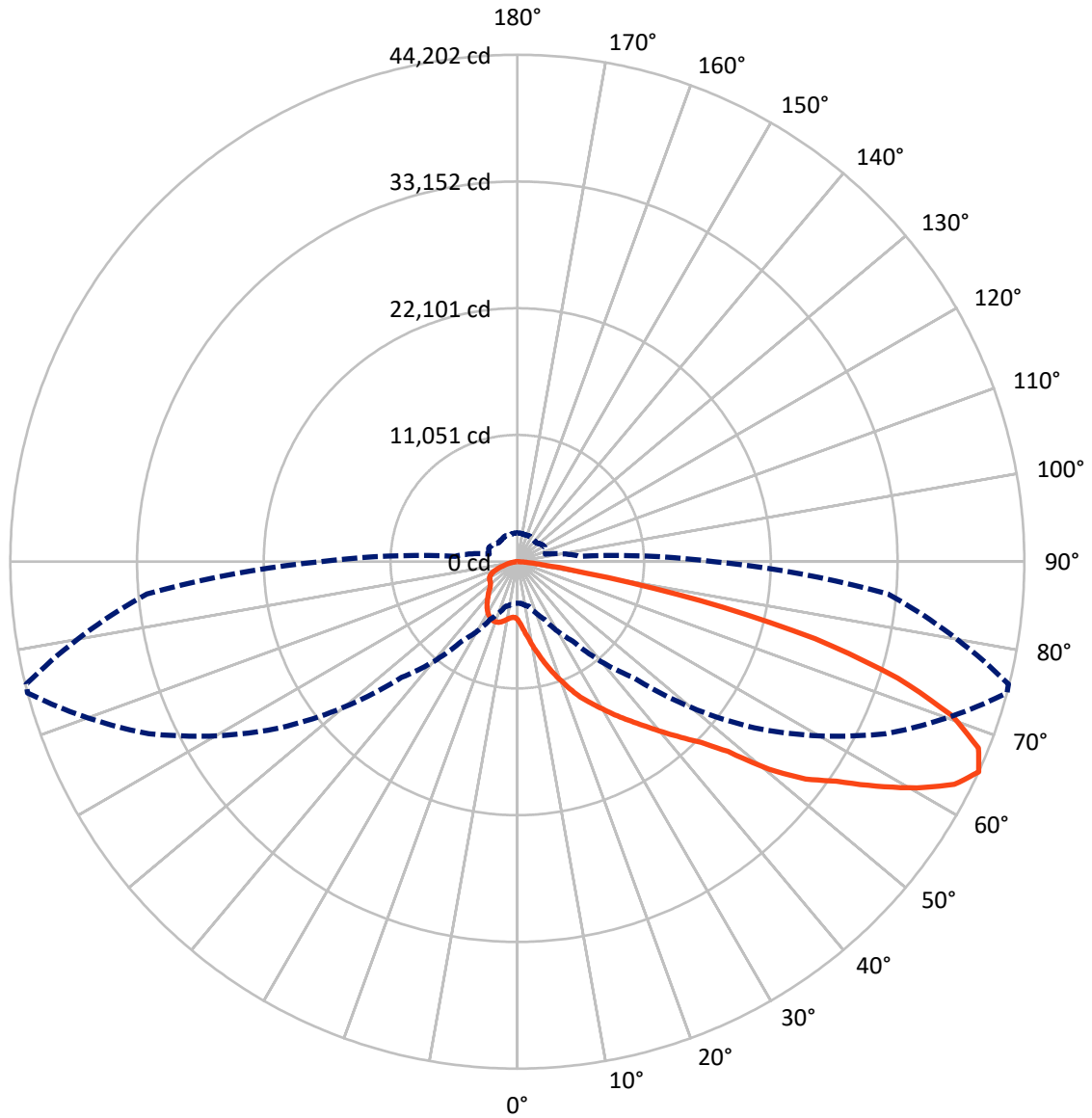
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 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	9132.2	0.0	9132.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	45189.8	0.0	45189.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	54322.0	0.0	54322.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	613.2	1.1
10°-20°	2401.9	4.4
20°-30°	4639.6	8.5
30°-40°	7536.2	13.9
40°-50°	10366.7	19.1
50°-60°	12239.6	22.5
60°-70°	10723.9	19.7
70°-80°	5119.7	9.4
80°-90°	681.2	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°	54322.0	100.0
0°-180°	54322.0	100.0

Coefficient of Utilization



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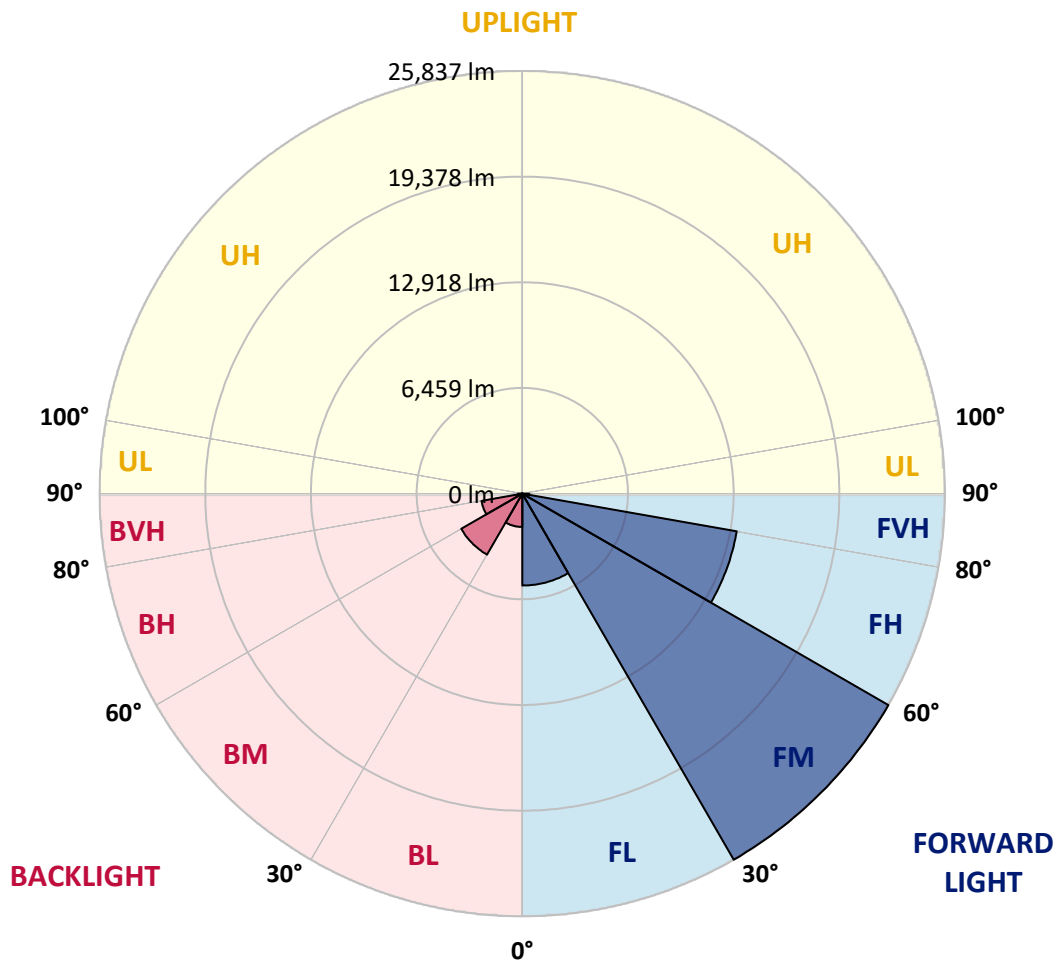
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5616.0	10.3			
FM (30°-60°)	25836.7	47.6			
FH (60°-80°)	13311.3	24.5			G5
FVH (80°-90°)	425.7	0.8			G3/500
BL (0°-30°)	2038.7	3.8	B3/2500		
BM (30°-60°)	4305.8	7.9	B3/5000		
BH (60°-80°)	2532.2	4.7	B4/5000		G4/5000
BVH (80°-90°)	255.5	0.5			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5047.2	5047.2	5047.2	5047.2	5047.2	5047.2	5047.2	5047.2	5047.2	5047.2	5047.2
2.5°	6706.0	6661.8	6614.7	6485.0	6346.6	6190.4	5966.5	5751.4	5465.6	5456.8	5244.6
5°	8565.2	8535.7	8326.6	8205.8	7884.6	7457.4	7095.0	6532.2	6010.7	5948.8	5536.3
7.5°	10274.1	10159.2	10079.7	9861.6	9543.4	8995.4	8294.1	7534.0	6661.8	6579.3	5895.8
10°	11561.7	11549.9	11508.7	11320.1	11081.4	10536.4	9758.5	8668.3	7486.8	7324.8	6331.8
12.5°	12525.2	12534.0	12528.1	12525.2	12354.3	11891.7	11049.0	9899.9	8320.7	8205.8	6835.7
15°	13158.7	13247.1	13282.4	13429.7	13444.5	13135.1	12410.3	11090.3	9260.6	9089.7	7377.8
17.5°	13577.1	13621.3	13786.3	14036.7	14240.0	14184.0	13538.8	12192.2	10221.1	9935.3	7940.6
20°	13977.8	14054.4	14181.1	14522.9	14882.3	15047.3	14593.6	13320.7	11172.8	10990.1	8562.3
22.5°	14811.6	14920.6	14964.8	15138.7	15445.1	15736.8	15530.5	14402.1	12215.8	11968.3	9222.3
25°	16222.9	16337.8	16214.1	16172.8	16273.0	16417.4	16373.2	15421.5	13199.9	12846.3	9846.9
27.5°	18061.5	18076.2	17834.6	17604.8	17357.3	17283.6	17148.1	16326.1	14054.4	13759.7	10474.5
30°	20035.6	19964.9	19564.2	19148.7	18730.3	18317.8	17928.9	17198.2	15006.1	14667.2	11090.3
32.5°	21868.3	21829.9	21385.0	20739.8	20032.6	19643.7	18857.0	18079.2	16025.5	15698.5	11723.8
35°	23241.3	23297.3	22808.2	22104.0	21332.0	20987.3	19994.3	19004.3	17080.3	16723.8	12413.2
37.5°	24216.5	24187.1	23754.0	23144.0	22466.4	22165.8	21323.2	20015.0	18214.7	17872.9	13167.5
40°	24564.2	24546.5	24225.4	23780.5	23350.3	23244.2	22713.9	21105.1	19514.1	19113.4	14075.0
42.5°	24343.2	24381.5	24169.4	24048.6	23969.0	24045.6	24095.7	22534.1	20931.3	20563.0	15059.1
45°	23665.6	23644.9	23615.5	23812.9	24260.7	24764.6	25462.9	23883.6	22472.3	22177.6	16379.1
47.5°	22454.6	22601.9	22675.6	23220.7	24198.9	25392.2	27036.3	25692.7	24708.6	24452.3	18391.5
50°	20760.4	20878.3	21314.3	22283.7	23742.2	25627.9	28574.3	28650.9	28438.7	27958.5	20577.7
52.5°	18114.5	18297.2	19195.9	20972.5	22805.2	25530.6	29505.3	31187.7	31467.7	31108.2	22731.6
55°	15153.4	15409.7	16358.5	18689.1	21514.7	25000.3	30147.7	32658.0	33774.7	33441.8	24805.8
57.5°	12254.1	12525.2	13500.4	15757.4	19263.6	23827.6	30569.0	34296.2	36915.6	36482.4	27386.9
60°	9184.0	9466.8	10303.6	12628.3	16057.9	21535.3	30283.2	35716.4	40053.5	39867.9	29970.9
62.5°	5925.2	6237.5	6965.3	8889.3	12342.5	18403.3	28754.0	36500.1	42770.1	42546.2	31856.6
65°	3609.4	3644.7	4045.4	5518.6	8447.4	14248.8	25256.6	35460.0	44202.0	44134.3	32431.1
67.5°	2333.6	2389.5	2572.2	3305.9	5064.9	9897.0	20194.7	32027.5	43365.3	43341.7	31243.7
70°	1971.1	1988.8	2071.3	2230.4	2943.5	6001.8	14181.1	26556.0	40186.1	40186.1	28388.7
72.5°	1762.0	1785.5	1815.0	1865.1	2100.8	3400.2	8462.1	20672.0	34696.9	34926.7	24163.5
75°	1599.9	1594.0	1611.7	1620.5	1791.4	2221.6	4375.4	15288.9	26841.8	26382.2	17498.7
77.5°	1370.1	1378.9	1370.1	1408.4	1582.2	1691.2	2221.6	10259.4	16267.1	15672.0	8783.2
80°	1125.5	1140.3	1155.0	1178.6	1352.4	1284.6	1334.7	4676.0	6016.6	5889.9	2713.6
82.5°	845.6	866.2	889.8	945.8	1063.7	848.6	842.7	1997.7	2171.5	1988.8	998.8
85°	341.8	403.7	609.9	665.9	668.8	465.5	518.6	833.8	886.9	866.2	391.9
87.5°	79.6	94.3	197.4	297.6	274.0	173.8	191.5	271.1	309.4	285.8	132.6
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°	5047.2	5047.2	5047.2	5047.2	5047.2	5047.2	5047.2	5047.2	5047.2	5047.2	5047.2
2.5°	5147.4	5044.3	4867.5	4731.9	4634.7	4549.3	4496.2	4463.8	4452.0	4449.1	4452.0
5°	5321.2	5138.5	4858.6	4681.8	4584.6	4528.6	4496.2	4493.3	4496.2	4499.2	4490.3
7.5°	5559.9	5297.6	4932.3	4767.3	4693.6	4652.4	4637.6	4631.8	4634.7	4631.8	4631.8
10°	5878.1	5518.6	5076.7	4905.8	4843.9	4796.8	4773.2	4758.5	4746.7	4734.9	4729.0
12.5°	6228.7	5763.2	5232.8	5067.8	4979.4	4905.8	4852.7	4814.4	4787.9	4761.4	4755.5
15°	6620.6	6022.5	5406.7	5176.8	5050.1	4941.1	4849.8	4787.9	4740.8	4702.5	4699.5
17.5°	6994.8	6267.0	5524.5	5226.9	5041.3	4888.1	4767.3	4681.8	4622.9	4572.8	4566.9
20°	7395.5	6499.8	5577.6	5194.5	4952.9	4767.3	4608.2	4505.1	4437.3	4381.3	4372.5
22.5°	7799.1	6697.2	5571.7	5091.4	4799.7	4581.7	4413.7	4304.7	4225.2	4169.2	4148.5
25°	8185.1	6856.3	5498.0	4926.4	4587.6	4360.7	4189.8	4089.6	4018.9	3951.1	3951.1
27.5°	8532.8	6950.6	5359.5	4726.0	4369.5	4130.9	3995.3	3904.0	3839.2	3795.0	3768.5
30°	8874.6	6994.8	5170.9	4472.6	4139.7	3936.4	3827.4	3774.4	3715.4	3665.3	3659.4
32.5°	9181.0	6985.9	4935.2	4225.2	3921.7	3777.3	3733.1	3691.9	3630.0	3559.3	3541.6
35°	9478.6	6927.0	4655.3	3954.1	3739.0	3683.0	3694.8	3635.9	3523.9	3435.5	3420.8
37.5°	9802.7	6820.9	4348.9	3733.1	3585.8	3638.8	3668.3	3538.6	3356.0	3217.5	3185.1
40°	10176.9	6700.1	4030.7	3512.1	3465.0	3597.6	3597.6	3358.9	3108.5	3023.0	2999.4
42.5°	10615.9	6600.0	3765.5	3326.5	3364.8	3497.4	3482.7	3120.2	3017.1	2972.9	2961.1
45°	11311.3	6564.6	3491.5	3164.4	3282.3	3379.5	3258.7	3037.7	2978.8	2943.5	2931.7
47.5°	12410.3	6605.9	3249.9	3043.6	3188.0	3261.7	3008.3	2981.8	2940.5	2890.4	2884.5
50°	13429.7	6567.5	3079.0	2975.9	3105.5	3120.2	2905.2	2914.0	2890.4	2834.4	2822.7
52.5°	14263.6	6446.7	2970.0	2940.5	3034.8	2872.7	2807.9	2840.3	2831.5	2760.8	2749.0
55°	15179.9	6373.1	2916.9	2940.5	2987.7	2657.7	2716.6	2763.7	2751.9	2701.9	2698.9
57.5°	16290.7	6387.8	2878.6	2949.4	2940.5	2548.6	2625.3	2681.2	2678.3	2663.6	2663.6
60°	17428.0	6393.7	2819.7	2946.4	2884.5	2463.2	2531.0	2610.5	2616.4	2625.3	2625.3
62.5°	17805.2	6137.4	2704.8	2893.4	2760.8	2380.7	2442.6	2551.6	2545.7	2569.3	2572.2
65°	17101.0	5427.3	2533.9	2772.6	2601.7	2321.8	2374.8	2475.0	2442.6	2504.4	2516.2
67.5°	15565.9	4490.3	2268.7	2554.5	2424.9	2259.9	2330.6	2368.9	2310.0	2430.8	2433.7
70°	13453.3	3506.2	1932.8	2245.2	2224.5	2195.1	2295.3	2236.3	2153.8	2301.1	2271.7
72.5°	11249.4	2678.3	1543.9	1835.6	1956.4	2097.8	2233.4	2065.4	1950.5	1994.7	1941.7
75°	8450.3	1980.0	1240.4	1437.8	1629.4	1959.4	2177.4	1859.2	1682.4	1641.2	1629.4
77.5°	4307.7	1293.5	928.1	1075.4	1222.8	1770.8	2100.8	1617.6	1393.7	1328.8	1299.4
80°	1538.0	804.4	654.1	742.5	825.0	1523.3	1835.6	1337.7	1081.3	1069.5	1081.3
82.5°	713.0	518.6	439.0	486.2	489.1	1016.5	1399.5	998.8	822.0	1249.3	1054.8
85°	306.4	259.3	247.5	241.6	223.9	453.7	786.7	536.2	836.8	374.2	344.7
87.5°	91.3	103.1	91.3	67.8	50.1	50.1	79.6	29.5	20.6	14.7	14.7
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)