

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: P458156

Luminaire Tested: **GALN-SA9C-740-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458156
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-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 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: 64954 lumens
Efficiency: N/A
Efficacy: 135.0 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

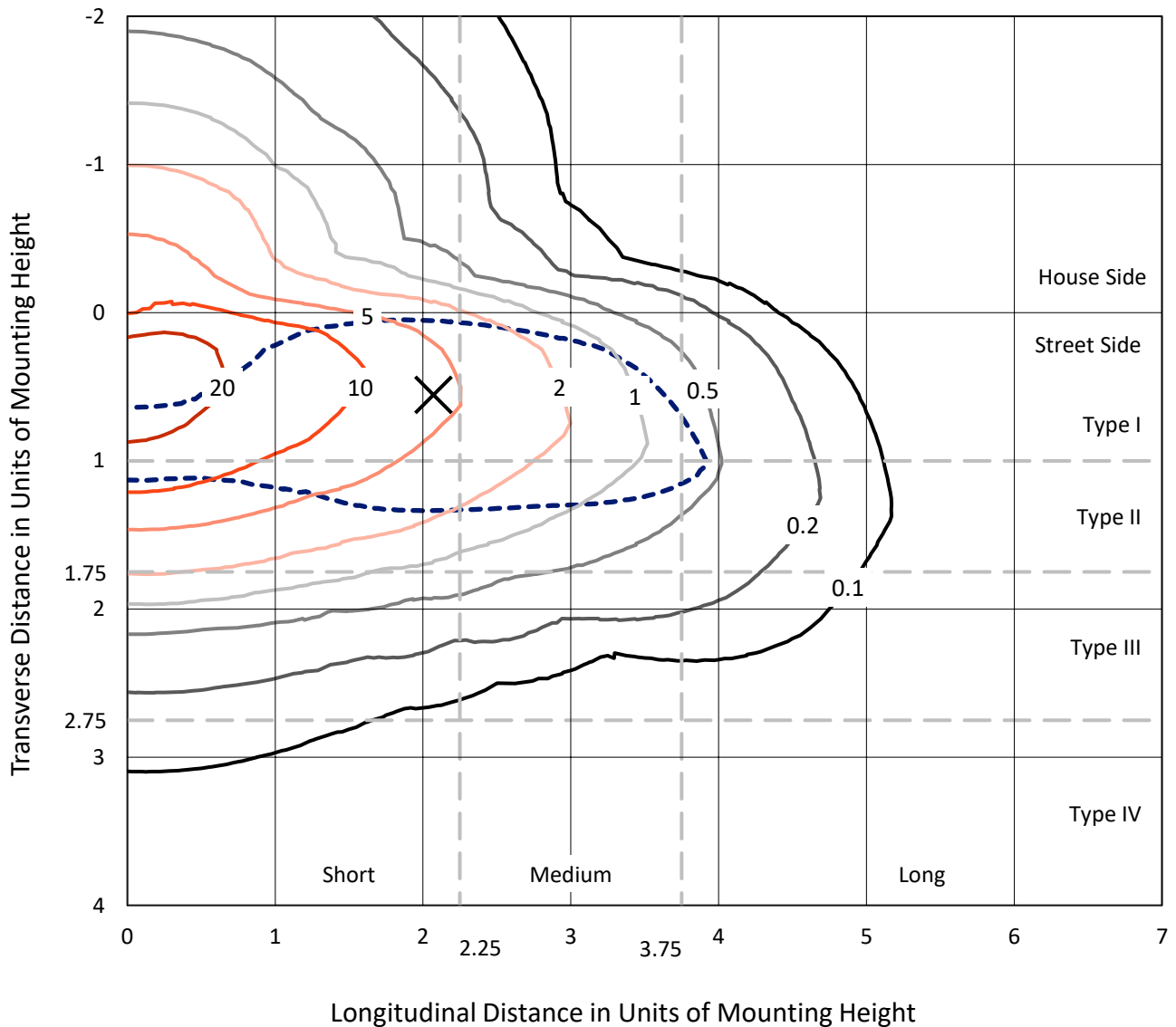
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

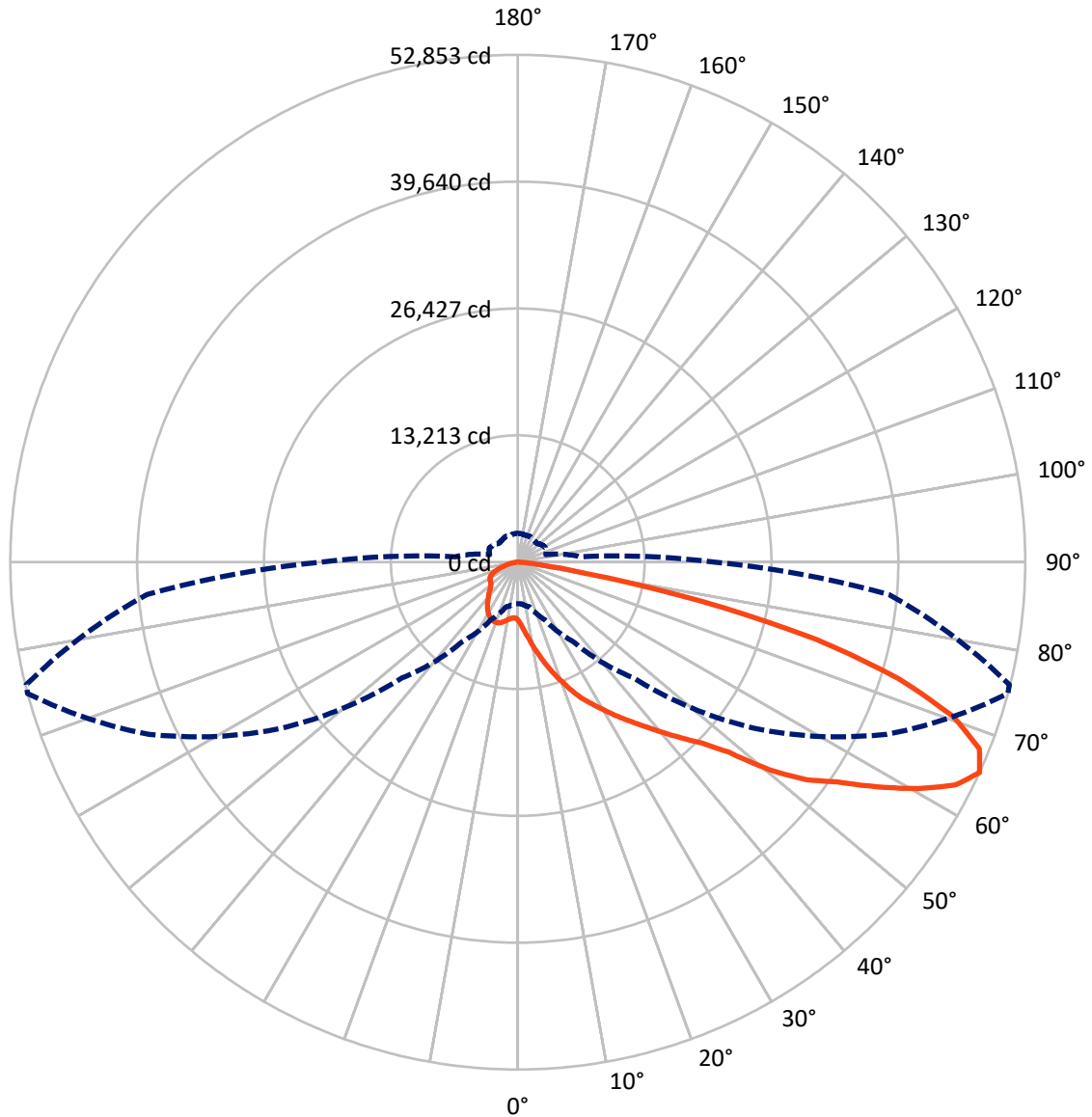
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.1 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	10919.6	0.0	10919.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	54034.4	0.0	54034.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	64954.0	0.0	64954.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	733.2	1.1
10°-20°	2872.0	4.4
20°-30°	5547.7	8.5
30°-40°	9011.2	13.9
40°-50°	12395.7	19.1
50°-60°	14635.1	22.5
60°-70°	12822.8	19.7
70°-80°	6121.7	9.4
80°-90°	814.6	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°	64954.0	100.0
0°-180°	64954.0	100.0

Coefficient of Utilization



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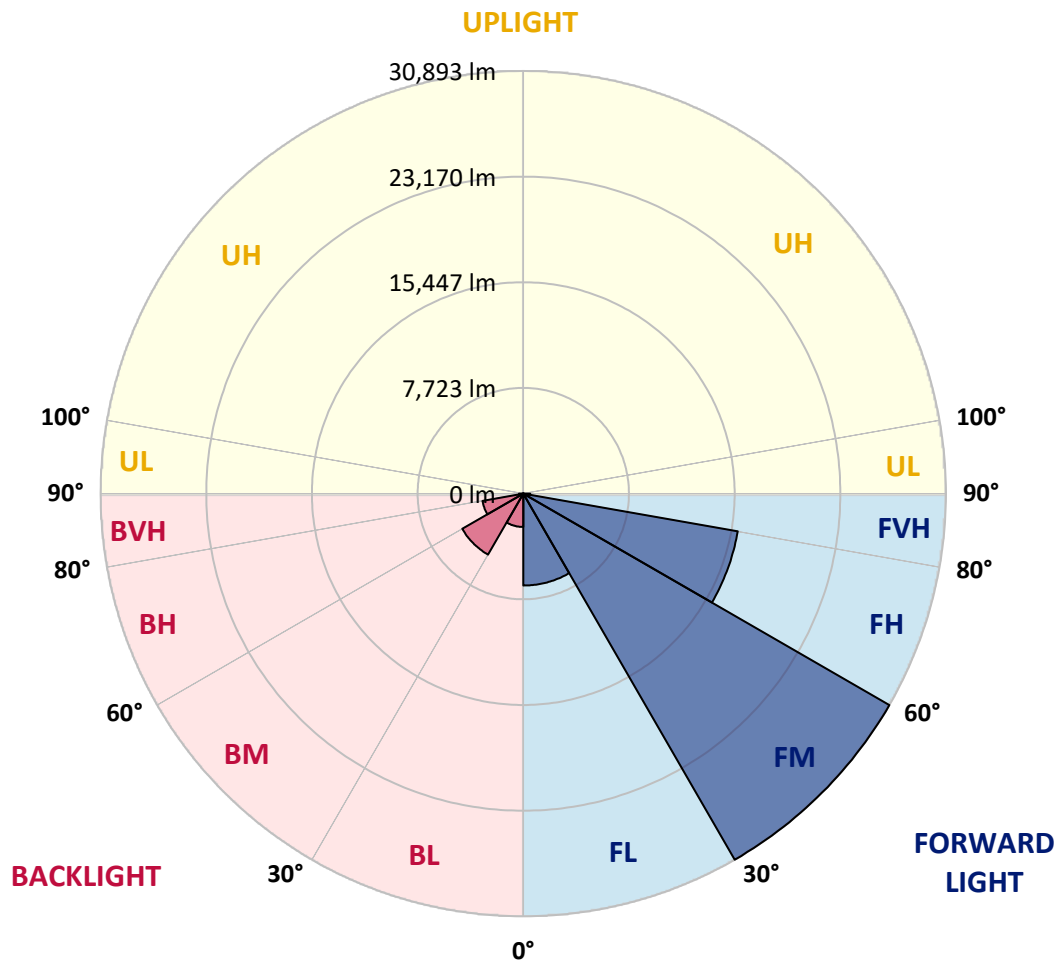
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6715.2	10.3			
FM	(30°-60°)	30893.5	47.6			
FH	(60°-80°)	15916.6	24.5			G5
FVH	(80°-90°)	509.0	0.8			G4/750
BL	(0°-30°)	2437.8	3.8	B3/2500		
BM	(30°-60°)	5148.5	7.9	B4/8500		
BH	(60°-80°)	3027.8	4.7	B4/5000		G4/5000
BVH	(80°-90°)	305.5	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°	6035.0	6035.0	6035.0	6035.0	6035.0	6035.0	6035.0	6035.0	6035.0	6035.0	6035.0
2.5°	8018.5	7965.7	7909.3	7754.3	7588.7	7402.0	7134.2	6877.1	6535.3	6524.8	6271.1
5°	10241.6	10206.4	9956.2	9811.8	9427.8	8916.9	8483.6	7810.7	7187.1	7113.1	6619.9
7.5°	12285.0	12147.6	12052.5	11791.8	11411.3	10756.0	9917.5	9008.5	7965.7	7867.1	7049.7
10°	13824.6	13810.5	13761.2	13535.7	13250.3	12598.6	11668.5	10364.9	8952.2	8758.4	7571.1
12.5°	14976.6	14987.2	14980.2	14976.6	14772.3	14219.2	13211.6	11837.6	9949.2	9811.8	8173.6
15°	15734.1	15839.8	15882.1	16058.2	16075.8	15705.9	14839.2	13260.9	11073.1	10868.7	8821.8
17.5°	16234.4	16287.2	16484.5	16784.0	17027.1	16960.1	16188.6	14578.5	12221.6	11879.8	9494.7
20°	16713.5	16805.1	16956.6	17365.3	17795.1	17992.4	17449.8	15927.9	13359.5	13141.1	10238.1
22.5°	17710.6	17840.9	17893.8	18101.6	18468.0	18816.8	18570.2	17220.8	14606.7	14310.8	11027.3
25°	19398.1	19535.5	19387.5	19338.2	19458.0	19630.6	19577.8	18439.8	15783.4	15360.7	11774.2
27.5°	21596.5	21614.1	21325.2	21050.4	20754.5	20666.4	20504.4	19521.4	16805.1	16452.8	12524.6
30°	23957.0	23872.4	23393.3	22896.5	22396.3	21903.0	21438.0	20564.3	17943.1	17537.9	13260.9
32.5°	26148.3	26102.5	25570.6	24799.0	23953.5	23488.4	22547.8	21617.7	19162.1	18771.0	14018.4
35°	27790.1	27857.0	27272.2	26430.2	25507.1	25094.9	23907.7	22723.9	20423.3	19997.0	14842.8
37.5°	28956.2	28921.0	28403.1	27673.8	26863.5	26504.2	25496.6	23932.3	21779.7	21371.0	15744.7
40°	29372.0	29350.8	28966.8	28434.8	27920.5	27793.6	27159.5	25235.9	23333.4	22854.3	16829.8
42.5°	29107.7	29153.5	28899.9	28755.4	28660.3	28751.9	28811.8	26944.6	25028.0	24587.6	18006.5
45°	28297.4	28272.8	28237.5	28473.6	29009.1	29611.5	30446.5	28558.1	26870.6	26518.3	19584.8
47.5°	26849.4	27025.6	27113.7	27765.4	28935.1	30362.0	32327.8	30721.3	29544.6	29238.1	21991.1
50°	24823.7	24964.6	25486.0	26645.1	28389.0	30643.8	34166.9	34258.5	34004.8	33430.6	24605.2
52.5°	21659.9	21878.4	22952.9	25077.3	27268.7	30527.5	35280.2	37291.9	37626.6	37196.7	27180.6
55°	18119.2	18425.7	19560.2	22346.9	25725.6	29893.4	36048.2	39049.9	40385.1	39987.0	29660.9
57.5°	14652.5	14976.6	16142.8	18841.5	23033.9	28491.2	36552.0	41008.7	44140.7	43622.9	32747.1
60°	10981.5	11319.7	12320.2	15099.9	19200.8	25750.2	36210.3	42706.9	47892.8	47670.9	35836.8
62.5°	7084.9	7458.4	8328.6	10629.2	14758.2	22005.2	34381.8	43644.0	51141.1	50873.4	38091.6
65°	4315.8	4358.1	4837.2	6598.7	10100.7	17037.6	30199.9	42400.3	52853.3	52772.3	38778.6
67.5°	2790.3	2857.2	3075.7	3952.9	6056.2	11834.0	24147.2	38295.9	51852.8	51824.6	37358.8
70°	2356.9	2378.1	2476.7	2667.0	3519.6	7176.5	16956.6	31753.6	48051.4	48051.4	33944.9
72.5°	2106.8	2135.0	2170.2	2230.1	2512.0	4065.6	10118.3	24718.0	41487.9	41762.7	28892.8
75°	1913.0	1906.0	1927.1	1937.7	2142.0	2656.4	5231.8	18281.3	32095.3	31545.7	20923.6
77.5°	1638.2	1648.8	1638.2	1684.0	1891.9	2022.3	2656.4	12267.4	19451.0	18739.3	10502.3
80°	1345.8	1363.4	1381.0	1409.2	1617.1	1536.1	1596.0	5591.1	7194.1	7042.6	3244.8
82.5°	1011.1	1035.8	1064.0	1130.9	1271.8	1014.6	1007.6	2388.7	2596.5	2378.1	1194.3
85°	408.7	482.7	729.3	796.2	799.7	556.6	620.1	997.0	1060.4	1035.8	468.6
87.5°	95.1	112.7	236.0	355.8	327.6	207.9	229.0	324.1	369.9	341.7	158.5
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°	6035.0	6035.0	6035.0	6035.0	6035.0	6035.0	6035.0	6035.0	6035.0	6035.0	6035.0
2.5°	6154.8	6031.5	5820.1	5658.1	5541.8	5439.6	5376.2	5337.5	5323.4	5319.9	5323.4
5°	6362.7	6144.3	5809.6	5598.2	5481.9	5415.0	5376.2	5372.7	5376.2	5379.8	5369.2
7.5°	6648.1	6334.5	5897.6	5700.4	5612.3	5563.0	5545.3	5538.3	5541.8	5538.3	5538.3
10°	7028.6	6598.7	6070.3	5865.9	5792.0	5735.6	5707.4	5689.8	5675.7	5661.6	5654.6
12.5°	7447.8	6891.2	6257.0	6059.7	5954.0	5865.9	5802.5	5756.7	5725.0	5693.3	5686.3
15°	7916.4	7201.2	6464.9	6190.1	6038.6	5908.2	5799.0	5725.0	5668.6	5622.8	5619.3
17.5°	8363.8	7493.6	6605.8	6250.0	6028.0	5844.8	5700.4	5598.2	5527.7	5467.8	5460.8
20°	8842.9	7771.9	6669.2	6211.2	5922.3	5700.4	5510.1	5386.8	5305.8	5238.8	5228.3
22.5°	9325.6	8008.0	6662.2	6087.9	5739.1	5478.4	5277.6	5147.2	5052.1	4985.2	4960.5
25°	9787.1	8198.2	6574.1	5890.6	5485.4	5214.2	5009.8	4890.0	4805.5	4724.5	4724.5
27.5°	10202.9	8311.0	6408.5	5651.0	5224.7	4939.4	4777.3	4668.1	4590.6	4537.7	4506.0
30°	10611.5	8363.8	6183.0	5348.0	4949.9	4706.8	4576.5	4513.1	4442.6	4382.7	4375.7
32.5°	10977.9	8353.2	5901.2	5052.1	4689.2	4516.6	4463.8	4414.4	4340.4	4255.9	4234.7
35°	11333.8	8282.8	5566.5	4728.0	4470.8	4403.9	4418.0	4347.5	4213.6	4107.9	4090.3
37.5°	11721.3	8155.9	5200.1	4463.8	4287.6	4351.0	4386.2	4231.2	4012.8	3847.2	3808.5
40°	12168.7	8011.5	4819.6	4199.5	4143.1	4301.7	4301.7	4016.3	3716.9	3614.7	3586.5
42.5°	12693.7	7891.7	4502.5	3977.6	4023.4	4181.9	4164.3	3730.9	3607.6	3554.8	3540.7
45°	13525.1	7849.4	4174.9	3783.8	3924.7	4041.0	3896.5	3632.3	3561.8	3519.6	3505.5
47.5°	14839.2	7898.8	3886.0	3639.3	3812.0	3900.1	3597.1	3565.4	3516.0	3456.1	3449.1
50°	16058.2	7853.0	3681.6	3558.3	3713.3	3730.9	3473.8	3484.3	3456.1	3389.2	3375.1
52.5°	17055.3	7708.5	3551.3	3516.0	3628.8	3435.0	3357.5	3396.3	3385.7	3301.1	3287.0
55°	18150.9	7620.4	3487.9	3516.0	3572.4	3177.8	3248.3	3304.7	3290.6	3230.7	3227.1
57.5°	19479.1	7638.1	3442.1	3526.6	3516.0	3047.5	3139.1	3206.0	3202.5	3184.9	3184.9
60°	20839.1	7645.1	3371.6	3523.1	3449.1	2945.3	3026.3	3121.5	3128.5	3139.1	3139.1
62.5°	21290.0	7338.6	3234.2	3459.7	3301.1	2846.7	2920.6	3051.0	3043.9	3072.1	3075.7
65°	20448.0	6489.5	3029.9	3315.2	3110.9	2776.2	2839.6	2959.4	2920.6	2994.6	3008.7
67.5°	18612.5	5369.2	2712.8	3054.5	2899.5	2702.2	2786.8	2832.6	2762.1	2906.5	2910.1
70°	16086.4	4192.5	2311.1	2684.6	2659.9	2624.7	2744.5	2674.0	2575.4	2751.5	2716.3
72.5°	13451.1	3202.5	1846.1	2194.9	2339.3	2508.4	2670.5	2469.7	2332.3	2385.1	2321.7
75°	10104.2	2367.5	1483.2	1719.3	1948.3	2342.9	2603.6	2223.1	2011.7	1962.4	1948.3
77.5°	5150.8	1546.6	1109.8	1285.9	1462.1	2117.4	2512.0	1934.2	1666.4	1588.9	1553.7
80°	1839.1	961.8	782.1	887.8	986.5	1821.4	2194.9	1599.5	1293.0	1278.9	1293.0
82.5°	852.6	620.1	524.9	581.3	584.8	1215.5	1673.5	1194.3	982.9	1493.8	1261.3
85°	366.4	310.0	295.9	288.9	267.8	542.6	940.7	641.2	1000.6	447.4	412.2
87.5°	109.2	123.3	109.2	81.0	59.9	59.9	95.1	35.2	24.7	17.6	17.6
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)