

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: P459403

Luminaire Tested: **GALN-SA8C-735-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459403
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-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 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: 53897 lumens
Efficiency: N/A
Efficacy: 125.6 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

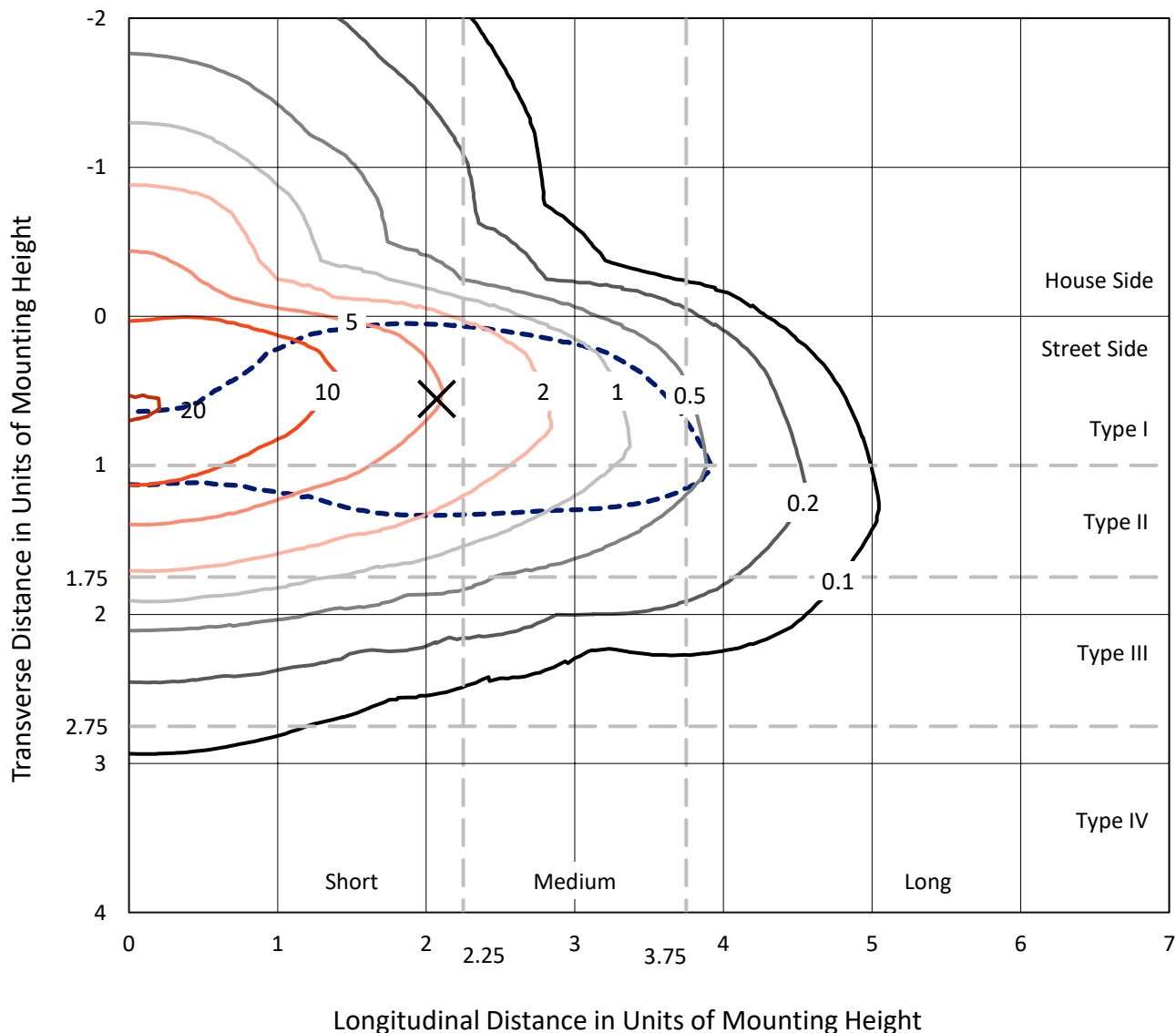
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459403
 CATALOG NUMBER: GALN-SA8C-735-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

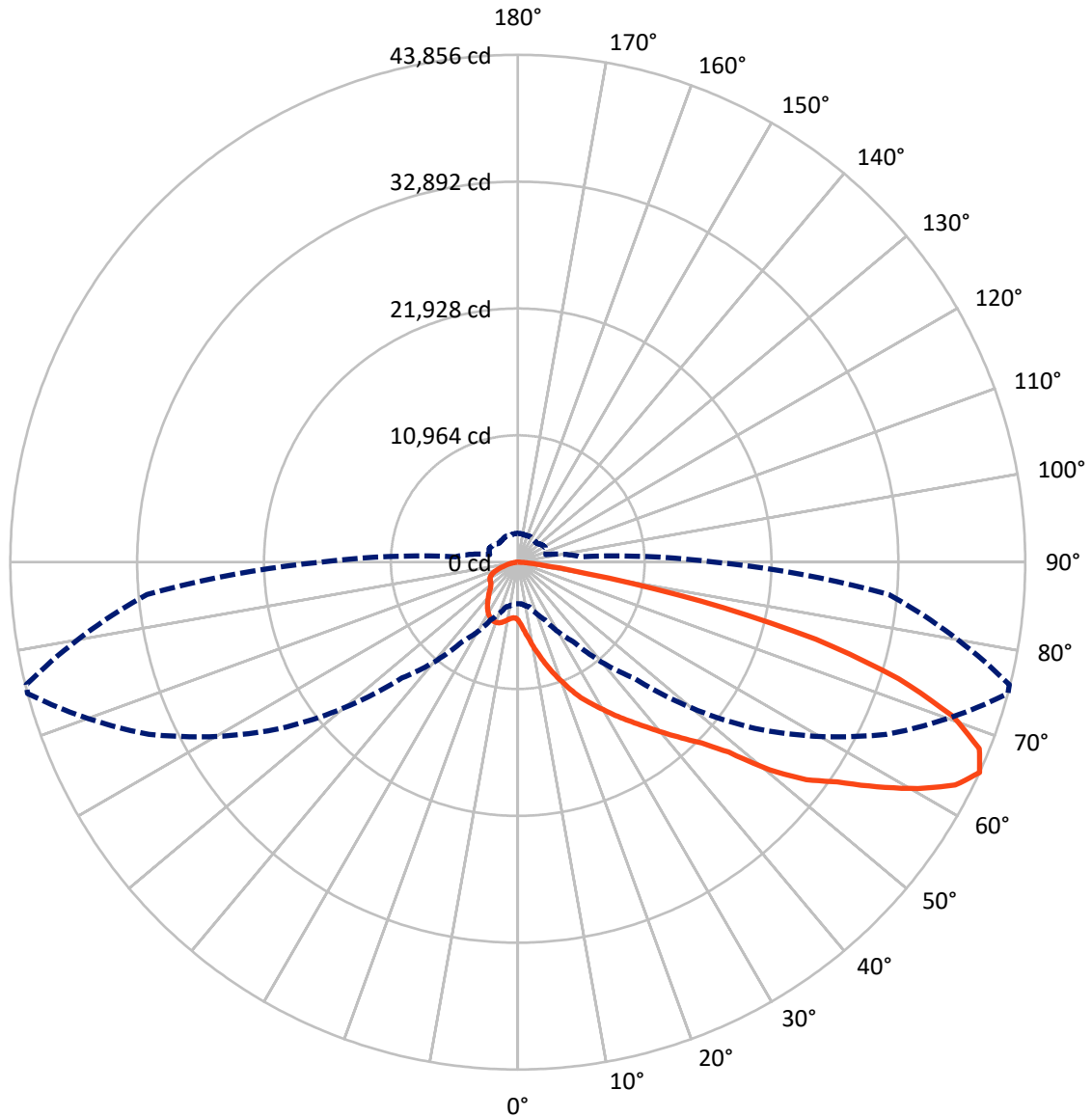
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.8 fc
 Type II - Short - N/A

REPORT NUMBER: P459403
CATALOG NUMBER: GALN-SA8C-735-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P459403

CATALOG NUMBER: GALN-SA8C-735-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9060.8	0.0	9060.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	44836.2	0.0	44836.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	53897.0	0.0	53897.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	608.4	1.1
10°-20°	2383.1	4.4
20°-30°	4603.3	8.5
30°-40°	7477.2	13.9
40°-50°	10285.6	19.1
50°-60°	12143.8	22.5
60°-70°	10640.0	19.7
70°-80°	5079.6	9.4
80°-90°	675.9	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°	53897.0	100.0
0°-180°	53897.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459403

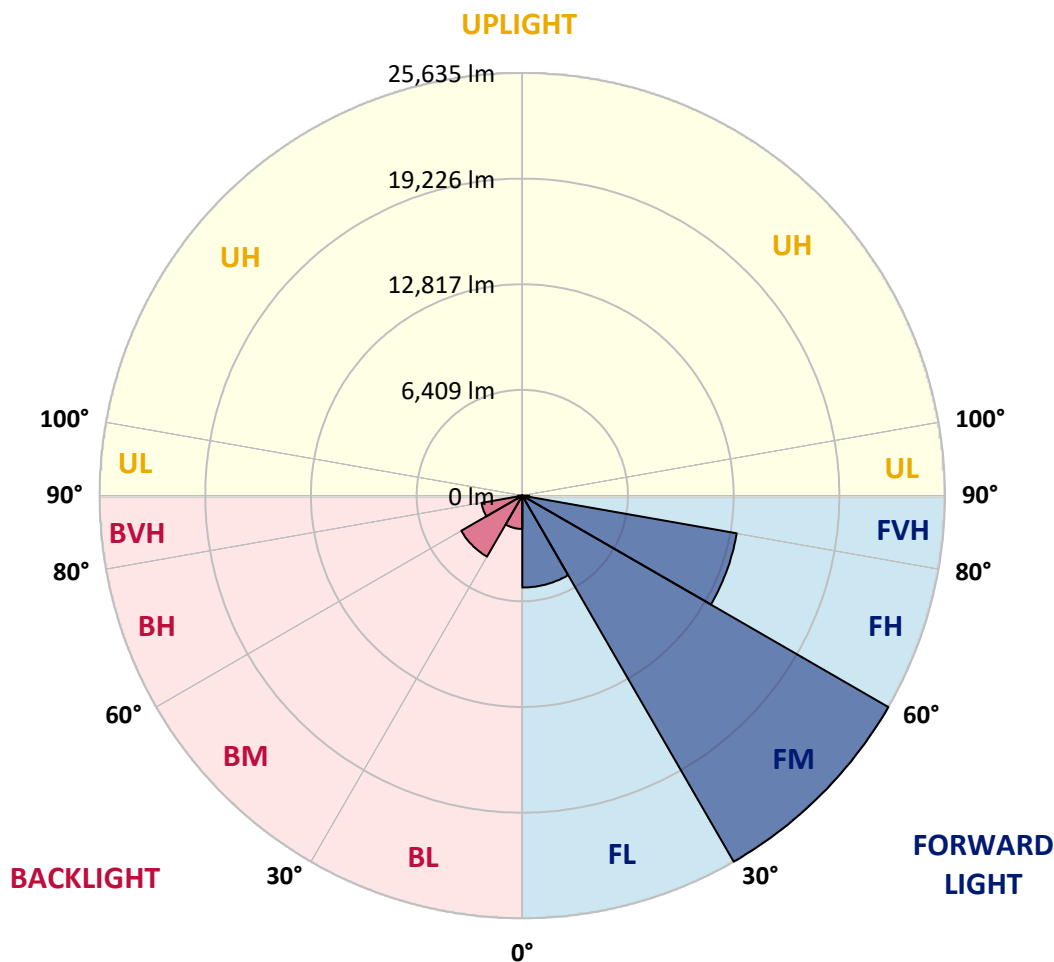
CATALOG NUMBER: GALN-SA8C-735-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5572.1	10.3			
FM	(30°-60°)	25634.5	47.6			
FH	(60°-80°)	13207.2	24.5			G5
FVH	(80°-90°)	422.4	0.8			G3/500
BL	(0°-30°)	2022.8	3.8	B3/2500		
BM	(30°-60°)	4272.1	7.9	B3/5000		
BH	(60°-80°)	2512.4	4.7	B4/5000		G4/5000
BVH	(80°-90°)	253.5	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





REPORT NUMBER: P459403

CATALOG NUMBER: GALN-SA8C-735-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5007.7	5007.7	5007.7	5007.7	5007.7	5007.7	5007.7	5007.7	5007.7	5007.7	5007.7
2.5°	6653.6	6609.7	6562.9	6434.3	6296.9	6142.0	5919.8	5706.4	5422.8	5414.1	5203.6
5°	8498.2	8469.0	8261.4	8141.6	7822.9	7399.0	7039.4	6481.1	5963.7	5902.3	5493.0
7.5°	10193.7	10079.7	10000.8	9784.5	9468.8	8925.0	8229.3	7475.0	6609.7	6527.9	5849.6
10°	11471.3	11459.6	11418.6	11231.5	10994.7	10453.9	9682.2	8600.5	7428.3	7267.5	6282.3
12.5°	12427.2	12436.0	12430.1	12427.2	12257.6	11798.7	10962.6	9822.5	8255.6	8141.6	6782.2
15°	13055.7	13143.4	13178.5	13324.7	13339.3	13032.3	12313.2	11003.5	9188.1	9018.6	7320.1
17.5°	13470.8	13514.7	13678.4	13926.9	14128.6	14073.0	13432.8	12096.9	10141.1	9857.6	7878.4
20°	13868.4	13944.4	14070.1	14409.2	14765.9	14929.6	14479.4	13216.5	11085.4	10904.1	8495.3
22.5°	14695.7	14803.9	14847.7	15020.2	15324.2	15613.7	15409.0	14289.4	12120.2	11874.7	9150.1
25°	16096.0	16210.0	16087.2	16046.3	16145.7	16289.0	16245.1	15300.9	13096.6	12745.8	9769.9
27.5°	17920.2	17934.8	17695.1	17467.1	17221.5	17148.4	17013.9	16198.3	13944.4	13652.1	10392.5
30°	19878.8	19808.7	19411.1	18998.9	18583.8	18174.5	17788.6	17063.6	14888.7	14552.5	11003.5
32.5°	21697.2	21659.2	21217.7	20577.5	19875.9	19490.0	18709.5	17937.7	15900.1	15575.7	11632.0
35°	23059.4	23115.0	22629.7	21931.0	21165.1	20823.1	19837.9	18855.7	16946.7	16593.0	12316.1
37.5°	24027.1	23997.8	23568.1	22963.0	22290.6	21992.4	21156.3	19858.4	18072.2	17733.1	13064.5
40°	24372.0	24354.5	24035.8	23594.4	23167.6	23062.4	22536.2	20940.0	19361.4	18963.8	13964.9
42.5°	24152.8	24190.8	23980.3	23860.4	23781.5	23857.5	23907.2	22357.8	20767.5	20402.1	14941.3
45°	23480.4	23459.9	23430.7	23626.6	24070.9	24570.8	25263.7	23696.7	22296.5	22004.1	16250.9
47.5°	22278.9	22425.1	22498.2	23039.0	24009.5	25193.5	26824.7	25491.7	24515.3	24260.9	18247.6
50°	20598.0	20714.9	21147.6	22109.4	23556.4	25427.4	28350.7	28426.7	28216.3	27739.7	20416.7
52.5°	17972.8	18154.1	19045.7	20808.5	22626.8	25330.9	29274.5	30943.7	31221.5	30864.8	22553.7
55°	15034.8	15289.2	16230.5	18542.9	21346.4	24804.7	29911.8	32402.5	33510.5	33180.1	24611.7
57.5°	12158.2	12427.2	13394.8	15634.1	19112.9	23641.2	30329.8	34027.9	36626.8	36197.0	27172.6
60°	9112.1	9392.7	10223.0	12529.5	15932.3	21366.8	30046.3	35436.9	39740.1	39556.0	29736.4
62.5°	5878.9	6188.7	6910.8	8819.8	12245.9	18259.3	28529.0	36214.6	42435.5	42213.3	31607.3
65°	3581.1	3616.2	4013.8	5475.4	8381.3	14137.4	25059.0	35182.6	43856.2	43789.0	32177.4
67.5°	2315.3	2370.8	2552.1	3280.0	5025.3	9819.6	20036.7	31776.9	43026.0	43002.6	30999.3
70°	1955.7	1973.3	2055.1	2213.0	2920.4	5954.9	14070.1	26348.2	39871.7	39871.7	28166.6
72.5°	1748.2	1771.6	1800.8	1850.5	2084.4	3373.6	8395.9	20510.3	34425.5	34653.5	23974.5
75°	1587.4	1581.5	1599.1	1607.8	1777.4	2204.2	4341.2	15169.3	26631.8	26175.7	17361.8
77.5°	1359.4	1368.1	1359.4	1397.4	1569.8	1678.0	2204.2	10179.1	16139.9	15549.3	8714.5
80°	1116.7	1131.3	1146.0	1169.3	1341.8	1274.6	1324.3	4639.4	5969.5	5843.8	2692.4
82.5°	839.0	859.5	882.9	938.4	1055.3	841.9	836.1	1982.0	2154.5	1973.3	991.0
85°	339.1	400.5	605.1	660.7	663.6	461.9	514.5	827.3	879.9	859.5	388.8
87.5°	78.9	93.5	195.9	295.3	271.9	172.5	190.0	268.9	307.0	283.6	131.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P459403

CATALOG NUMBER: GALN-SA8C-735-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5007.7	5007.7	5007.7	5007.7	5007.7	5007.7	5007.7	5007.7	5007.7	5007.7	5007.7
2.5°	5107.1	5004.8	4829.4	4694.9	4598.4	4513.7	4461.0	4428.9	4417.2	4414.3	4417.2
5°	5279.6	5098.3	4820.6	4645.2	4548.7	4493.2	4461.0	4458.1	4461.0	4464.0	4455.2
7.5°	5516.4	5256.2	4893.7	4730.0	4656.9	4616.0	4601.4	4595.5	4598.4	4595.5	4595.5
10°	5832.1	5475.4	5036.9	4867.4	4806.0	4759.2	4735.8	4721.2	4709.5	4697.8	4692.0
12.5°	6180.0	5718.1	5191.9	5028.2	4940.5	4867.4	4814.8	4776.8	4750.5	4724.1	4718.3
15°	6568.8	5975.3	5364.4	5136.3	5010.6	4902.5	4811.8	4750.5	4703.7	4665.7	4662.8
17.5°	6940.1	6218.0	5481.3	5186.0	5001.9	4849.9	4730.0	4645.2	4586.7	4537.1	4531.2
20°	7337.6	6448.9	5533.9	5153.9	4914.2	4730.0	4572.1	4469.8	4402.6	4347.0	4338.3
22.5°	7738.1	6644.8	5528.1	5051.6	4762.1	4545.8	4379.2	4271.0	4192.1	4136.6	4116.1
25°	8121.1	6802.7	5455.0	4887.9	4551.7	4326.6	4157.0	4057.6	3987.5	3920.2	3920.2
27.5°	8466.0	6896.2	5317.6	4689.1	4335.3	4098.5	3964.1	3873.4	3809.1	3765.3	3739.0
30°	8805.2	6940.1	5130.5	4437.7	4107.3	3905.6	3797.4	3744.8	3686.4	3636.7	3630.8
32.5°	9109.2	6931.3	4896.6	4192.1	3891.0	3747.7	3703.9	3663.0	3601.6	3531.4	3513.9
35°	9404.4	6872.8	4618.9	3923.1	3709.7	3654.2	3665.9	3607.4	3496.3	3408.6	3394.0
37.5°	9726.0	6767.6	4314.9	3703.9	3557.7	3610.3	3639.6	3511.0	3329.7	3192.3	3160.1
40°	10097.3	6647.7	3999.2	3484.6	3437.9	3569.4	3569.4	3332.6	3084.1	2999.4	2976.0
42.5°	10532.9	6548.3	3736.1	3300.5	3338.5	3470.0	3455.4	3095.8	2993.5	2949.7	2938.0
45°	11222.8	6513.2	3464.2	3139.7	3256.6	3353.1	3233.2	3014.0	2955.5	2920.4	2908.7
47.5°	12313.2	6554.2	3224.5	3019.8	3163.1	3236.2	2984.7	2958.4	2917.5	2867.8	2862.0
50°	13324.7	6516.2	3054.9	2952.6	3081.2	3095.8	2882.4	2891.2	2867.8	2812.3	2800.6
52.5°	14152.0	6396.3	2946.7	2917.5	3011.1	2850.3	2786.0	2818.1	2809.3	2739.2	2727.5
55°	15061.1	6323.2	2894.1	2917.5	2964.3	2636.9	2695.3	2742.1	2730.4	2680.7	2677.8
57.5°	16163.2	6337.8	2856.1	2926.3	2917.5	2528.7	2604.7	2660.3	2657.3	2642.7	2642.7
60°	17291.7	6343.7	2797.7	2923.4	2862.0	2443.9	2511.2	2590.1	2595.9	2604.7	2604.7
62.5°	17665.9	6089.4	2683.6	2870.7	2739.2	2362.1	2423.5	2531.6	2525.8	2549.2	2552.1
65°	16967.2	5384.8	2514.1	2750.9	2581.3	2303.6	2356.2	2455.6	2423.5	2484.9	2496.5
67.5°	15444.1	4455.2	2251.0	2534.6	2405.9	2242.2	2312.4	2350.4	2291.9	2411.8	2414.7
70°	13348.1	3478.8	1917.7	2227.6	2207.1	2177.9	2277.3	2218.8	2137.0	2283.1	2253.9
72.5°	11161.4	2657.3	1531.8	1821.3	1941.1	2081.4	2215.9	2049.3	1935.3	1979.1	1926.5
75°	8384.2	1964.5	1230.7	1426.6	1616.6	1944.0	2160.4	1844.6	1669.2	1628.3	1616.6
77.5°	4273.9	1283.4	920.9	1067.0	1213.2	1756.9	2084.4	1604.9	1382.7	1318.4	1289.2
80°	1526.0	798.1	649.0	736.7	818.5	1511.4	1821.3	1327.2	1072.9	1061.2	1072.9
82.5°	707.5	514.5	435.6	482.4	485.3	1008.6	1388.6	991.0	815.6	1239.5	1046.6
85°	304.0	257.3	245.6	239.7	222.2	450.2	780.5	532.1	830.2	371.3	342.0
87.5°	90.6	102.3	90.6	67.2	49.7	49.7	78.9	29.2	20.5	14.6	14.6
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)