

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: P522819

Luminaire Tested: **GALN-SA6C-830-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522819
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33153 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

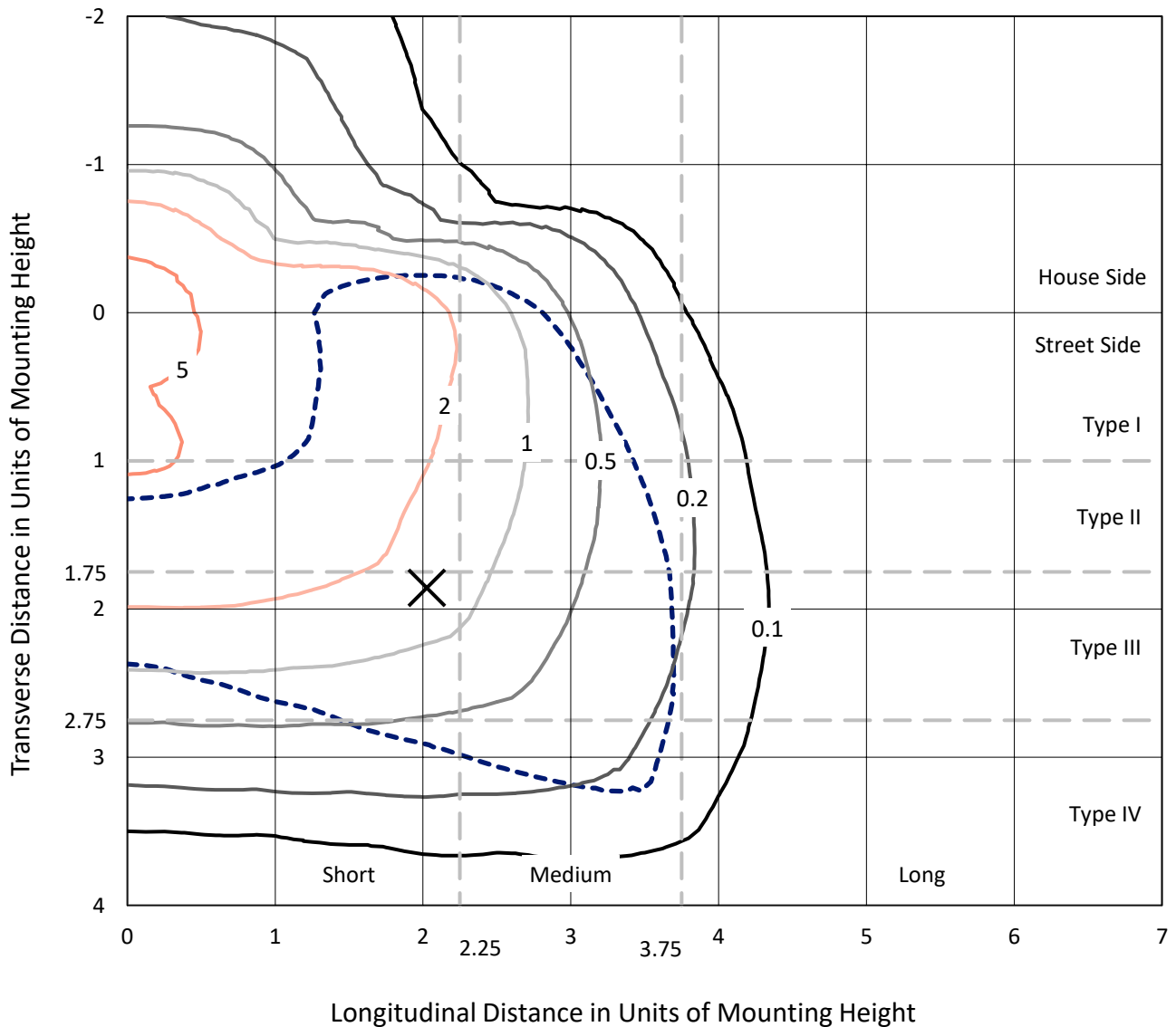
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

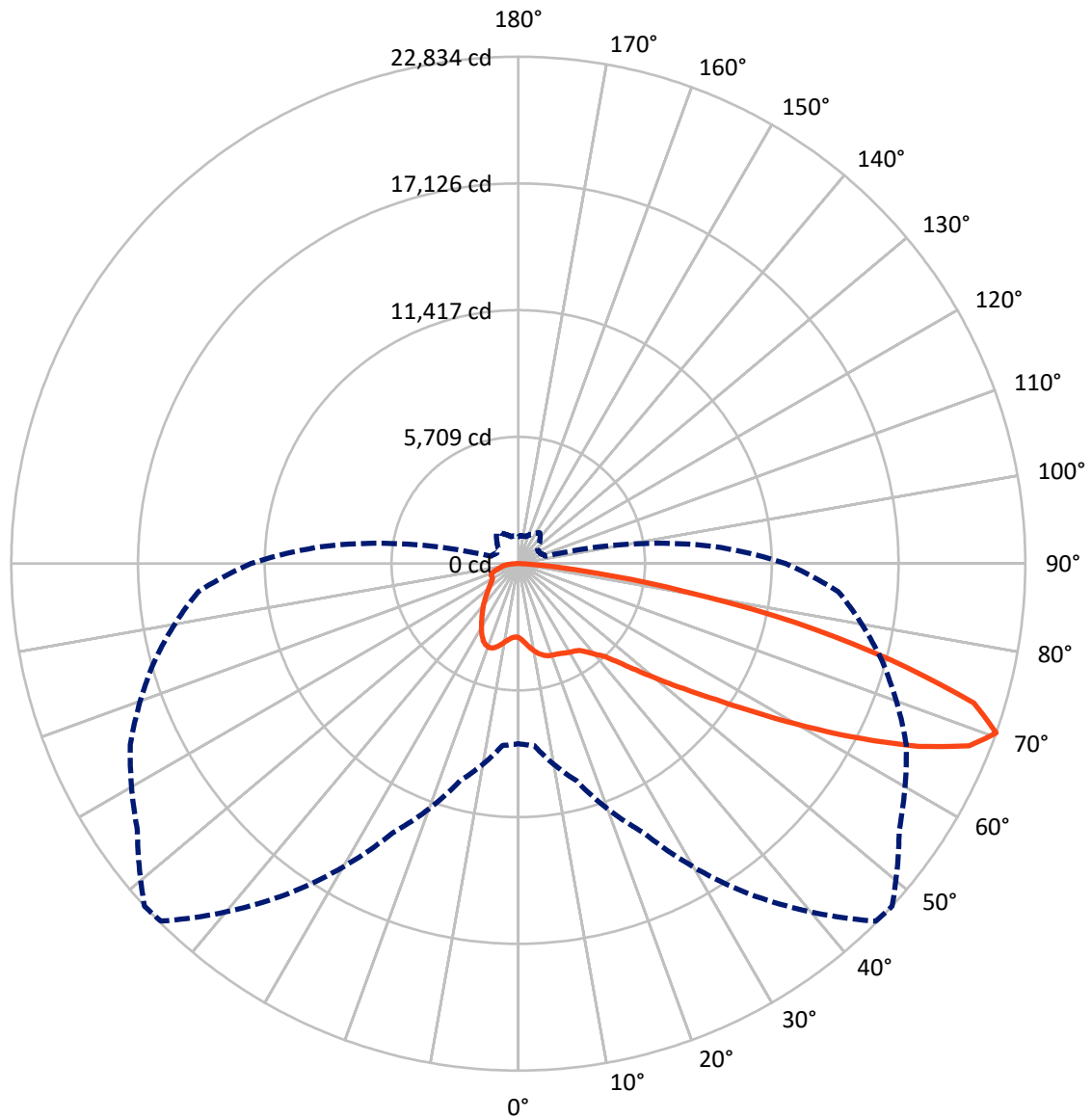
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7506.5	0.0	7506.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	25646.5	0.0	25646.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	33153.0	0.0	33153.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.1	1.0
10°-20°	1146.9	3.5
20°-30°	1907.3	5.8
30°-40°	2703.3	8.2
40°-50°	3990.6	12.0
50°-60°	6911.9	20.8
60°-70°	9763.2	29.4
70°-80°	5612.4	16.9
80°-90°	774.4	2.3
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°	33153.0	100.0
0°-180°	33153.0	100.0

Coefficient of Utilization



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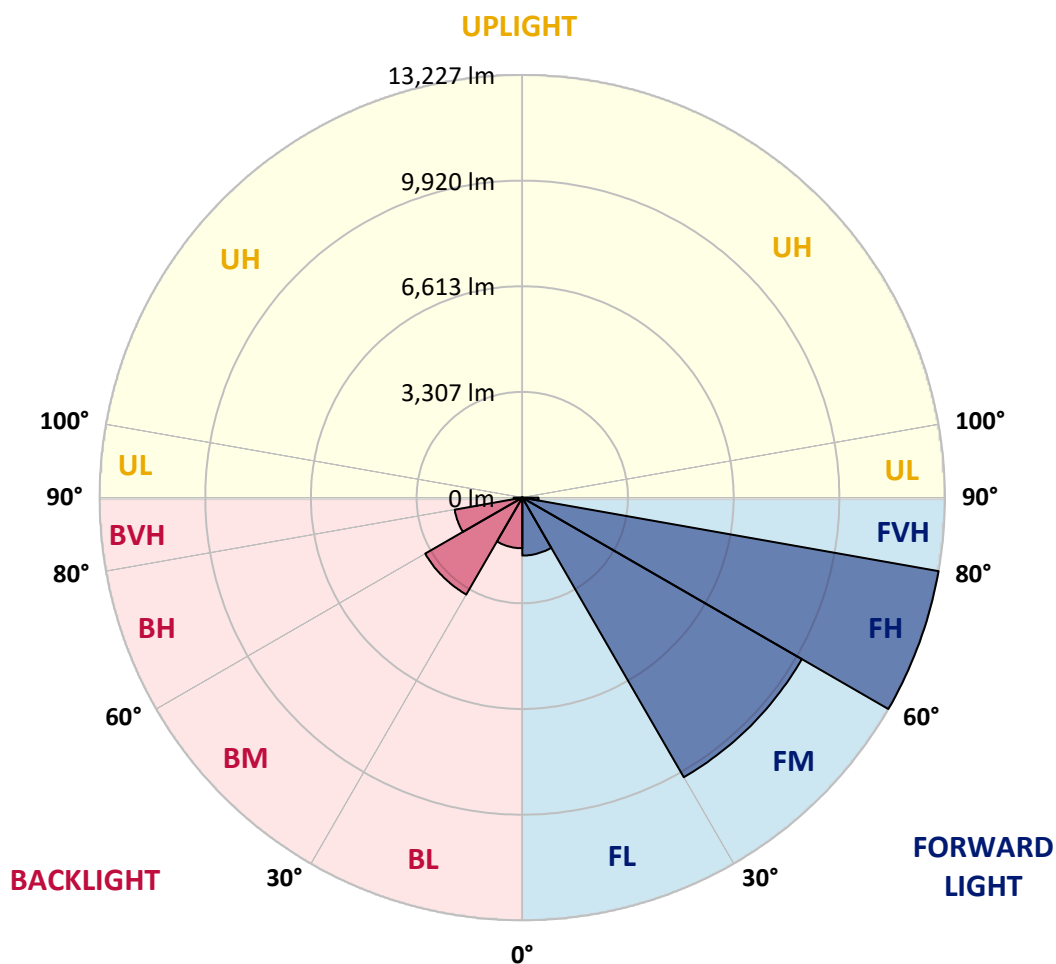
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1812.9	5.5			
FM	(30°-60°)	10101.1	30.5			
FH	(60°-80°)	13226.7	39.9			G5
FVH	(80°-90°)	505.8	1.5			G4/750
BL	(0°-30°)	1584.3	4.8	B3/2500		
BM	(30°-60°)	3504.6	10.6	B3/5000		
BH	(60°-80°)	2149.0	6.5	B3/2500		G3/2500
BVH	(80°-90°)	268.5	0.8			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	3328.2	3328.2	3328.2	3328.2	3328.2	3328.2	3328.2	3328.2	3328.2	3328.2	3328.2
2.5°	3542.8	3530.4	3528.6	3502.0	3487.8	3461.2	3450.6	3425.7	3395.6	3365.4	3337.0
5°	3821.4	3821.4	3808.9	3771.7	3713.1	3652.8	3626.2	3578.3	3493.2	3424.0	3365.4
7.5°	4107.0	4110.5	4085.7	4030.7	3947.3	3849.7	3824.9	3753.9	3633.3	3532.2	3445.3
10°	4353.6	4353.6	4319.9	4245.4	4140.7	4034.2	4009.4	3929.6	3794.7	3668.8	3555.2
12.5°	4541.6	4541.6	4497.3	4399.7	4286.2	4190.4	4162.0	4085.7	3959.7	3819.6	3675.9
15°	4664.0	4655.2	4605.5	4495.5	4385.5	4302.1	4282.6	4218.7	4103.4	3961.5	3800.1
17.5°	4669.4	4665.8	4617.9	4525.7	4429.9	4373.1	4360.7	4318.1	4227.6	4092.8	3922.5
20°	4566.5	4573.6	4541.6	4476.0	4429.9	4405.0	4399.7	4385.5	4321.6	4195.7	4025.4
22.5°	4456.5	4468.9	4438.7	4403.3	4399.7	4424.5	4428.1	4431.6	4390.8	4268.4	4112.3
25°	4429.9	4438.7	4408.6	4376.6	4396.2	4461.8	4476.0	4490.2	4458.2	4355.4	4215.2
27.5°	4564.7	4557.6	4499.1	4429.9	4442.3	4531.0	4550.5	4566.5	4550.5	4461.8	4342.9
30°	4946.1	4923.1	4806.0	4603.7	4539.9	4601.9	4621.5	4665.8	4665.8	4600.2	4481.3
32.5°	5584.8	5540.4	5325.8	4928.4	4706.6	4669.4	4688.9	4761.6	4798.9	4747.4	4617.9
35°	6360.1	6313.9	6007.0	5473.0	5011.8	4804.2	4798.9	4880.5	4979.8	4864.5	4696.0
37.5°	7138.9	7091.0	6722.0	6122.3	5457.1	5088.0	5056.1	5084.5	5127.1	4916.0	4804.2
40°	7917.7	7860.9	7538.0	6847.9	6001.7	5464.1	5380.8	5253.0	5235.3	5084.5	5013.5
42.5°	8689.4	8638.0	8474.8	7662.2	6654.6	5831.4	5703.6	5483.7	5551.1	5460.6	5398.5
45°	9468.2	9471.8	9297.9	8575.9	7442.2	6509.1	6337.0	5992.8	6152.5	6118.8	6154.3
47.5°	10158.3	10149.5	10087.4	9462.9	8419.8	7381.9	7160.2	6761.0	7034.2	7158.4	7429.8
50°	10827.2	10821.8	10825.4	10468.8	9555.2	8419.8	8174.9	7756.3	8371.9	8803.0	9289.0
52.5°	11785.2	11815.3	11600.7	11506.6	10935.4	9645.6	9376.0	8943.1	9952.6	10632.0	11581.2
55°	12746.7	12721.9	12553.3	12650.9	12379.5	11096.8	10814.8	10470.6	11712.4	12455.8	13882.1
57.5°	13312.6	13321.5	13493.6	13970.8	14162.4	12906.4	12650.9	12384.8	13690.5	14217.4	15929.4
60°	13821.8	13862.6	14357.6	15258.8	15778.6	15129.3	14902.2	14643.2	15505.4	15714.7	17707.0
62.5°	13981.5	14107.4	14971.4	16319.7	17354.0	17637.8	17355.8	16784.5	17233.4	17151.7	18911.6
65°	13184.9	13357.0	14905.8	16717.1	18760.8	20018.6	19839.5	18778.6	18705.8	18214.4	19108.5
67.5°	11088.0	11260.0	13248.8	15883.3	19342.7	22080.1	21900.9	20233.3	19600.0	18313.8	17618.3
70°	8112.8	8221.1	10122.9	13373.0	18173.6	22772.0	22834.1	20942.9	19280.6	16963.7	14465.8
72.5°	4674.7	4914.2	6246.5	9407.9	14847.2	21022.8	21453.9	19466.9	17261.7	14151.8	10114.0
75°	2010.0	2015.3	2888.2	5189.2	10055.4	16898.1	17315.0	16137.0	13555.7	9785.8	5400.3
77.5°	956.2	974.0	1270.2	2316.9	5535.1	11675.2	12799.9	11400.2	8669.9	4701.3	2040.2
80°	620.9	633.3	777.0	1149.6	2714.3	6769.9	7554.0	6576.5	3824.9	1680.0	879.9
82.5°	376.1	379.7	519.8	702.5	1493.8	3065.6	3613.8	2854.5	1632.1	1005.9	518.0
85°	228.9	230.6	315.8	434.6	906.6	1059.1	1087.5	1078.6	958.0	658.2	276.8
87.5°	110.0	113.5	163.2	205.8	356.6	328.2	310.5	360.1	452.4	354.8	118.9
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°	3328.2	3328.2	3328.2	3328.2	3328.2	3328.2	3328.2	3328.2	3328.2	3328.2	3328.2
2.5°	3324.6	3319.3	3306.9	3301.6	3298.0	3299.8	3298.0	3298.0	3299.8	3299.8	3299.8
5°	3340.6	3331.7	3312.2	3312.2	3322.8	3347.7	3370.7	3388.5	3408.0	3406.2	3406.2
7.5°	3409.8	3393.8	3370.7	3377.8	3404.4	3443.5	3484.3	3523.3	3562.3	3565.9	3564.1
10°	3510.9	3494.9	3470.1	3479.0	3521.5	3580.1	3631.5	3688.3	3730.9	3743.3	3739.7
12.5°	3626.2	3594.3	3573.0	3597.8	3665.2	3743.3	3793.0	3835.5	3865.7	3883.4	3876.4
15°	3743.3	3713.1	3688.3	3739.7	3821.4	3894.1	3918.9	3926.0	3931.3	3949.1	3945.5
17.5°	3856.8	3816.0	3807.2	3874.6	3952.6	3984.6	3970.4	3940.2	3917.2	3931.3	3929.6
20°	3958.0	3926.0	3922.5	3989.9	4020.1	3989.9	3929.6	3876.4	3835.5	3839.1	3837.3
22.5°	4053.8	4028.9	4032.5	4060.9	4013.0	3910.1	3810.7	3738.0	3693.6	3702.5	3707.8
25°	4160.2	4135.4	4144.2	4098.1	3940.2	3761.0	3617.3	3555.2	3537.5	3555.2	3567.7
27.5°	4298.6	4282.6	4277.3	4099.9	3810.7	3541.1	3377.8	3354.8	3370.7	3409.8	3429.3
30°	4447.6	4447.6	4419.2	4069.7	3633.3	3276.7	3134.8	3138.3	3193.3	3248.3	3267.8
32.5°	4591.3	4621.5	4532.8	3988.1	3404.4	3019.5	2911.3	2914.8	2962.7	3030.1	3047.9
35°	4710.2	4797.1	4630.3	3839.1	3134.8	2803.0	2721.4	2673.5	2675.3	2726.8	2740.9
37.5°	4873.4	5034.8	4687.1	3617.3	2847.4	2618.5	2526.3	2442.9	2387.9	2366.6	2366.6
40°	5157.2	5395.0	4701.3	3289.1	2576.0	2442.9	2311.6	2212.3	2105.8	2010.0	1992.3
42.5°	5638.0	5937.8	4672.9	2911.3	2331.1	2249.5	2121.8	1999.4	1852.1	1717.3	1706.7
45°	6489.6	6643.9	4596.6	2519.2	2112.9	2063.2	1939.1	1806.0	1649.9	1529.3	1520.4
47.5°	7853.8	7635.6	4495.5	2171.5	1914.2	1900.0	1804.2	1649.9	1493.8	1410.4	1401.5
50°	9846.1	9196.8	4481.3	1919.5	1754.6	1761.7	1683.6	1541.7	1405.1	1335.9	1325.2
52.5°	12244.7	11082.6	4575.3	1742.1	1614.4	1641.0	1602.0	1470.7	1350.1	1291.5	1280.9
55°	14572.2	12778.7	4632.1	1603.8	1483.1	1532.8	1538.1	1428.1	1318.1	1259.6	1252.5
57.5°	16461.6	14056.0	4380.2	1477.8	1369.6	1445.9	1484.9	1403.3	1302.2	1257.8	1250.7
60°	17776.2	14659.2	3663.5	1366.0	1286.2	1376.7	1465.4	1405.1	1341.2	1346.5	1350.1
62.5°	18194.9	14391.3	2748.0	1282.7	1229.4	1353.6	1497.3	1477.8	1412.2	1453.0	1460.1
65°	17501.2	13284.3	1992.3	1217.0	1179.8	1369.6	1593.1	1531.0	1387.3	1417.5	1417.5
67.5°	15179.0	11444.5	1550.5	1156.7	1123.0	1399.7	1688.9	1525.7	1328.8	1364.3	1332.3
70°	12040.6	8852.6	1291.5	1089.3	1062.7	1355.4	1697.8	1470.7	1259.6	1266.7	1206.4
72.5°	7990.4	5820.7	1110.6	1025.4	970.4	1218.8	1625.1	1399.7	1192.2	1151.4	1091.1
75°	3915.4	2902.4	968.6	945.6	849.8	1060.9	1525.7	1332.3	1119.4	1055.6	1021.9
77.5°	1516.8	1234.8	826.7	844.5	739.8	934.9	1394.4	1236.5	1023.6	936.7	910.1
80°	736.2	700.8	677.7	704.3	608.5	796.6	1273.8	1153.1	934.9	839.1	800.1
82.5°	457.7	432.9	519.8	548.2	468.4	727.4	1208.1	1082.2	823.2	695.4	663.5
85°	232.4	248.4	347.7	374.3	335.3	578.3	995.3	812.5	594.3	493.2	496.7
87.5°	88.7	118.9	182.7	196.9	179.2	305.1	548.2	473.7	381.4	259.0	239.5
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)