

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: P647407

Luminaire Tested: **GALN-SA4D-835-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647407
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-835-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20430 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

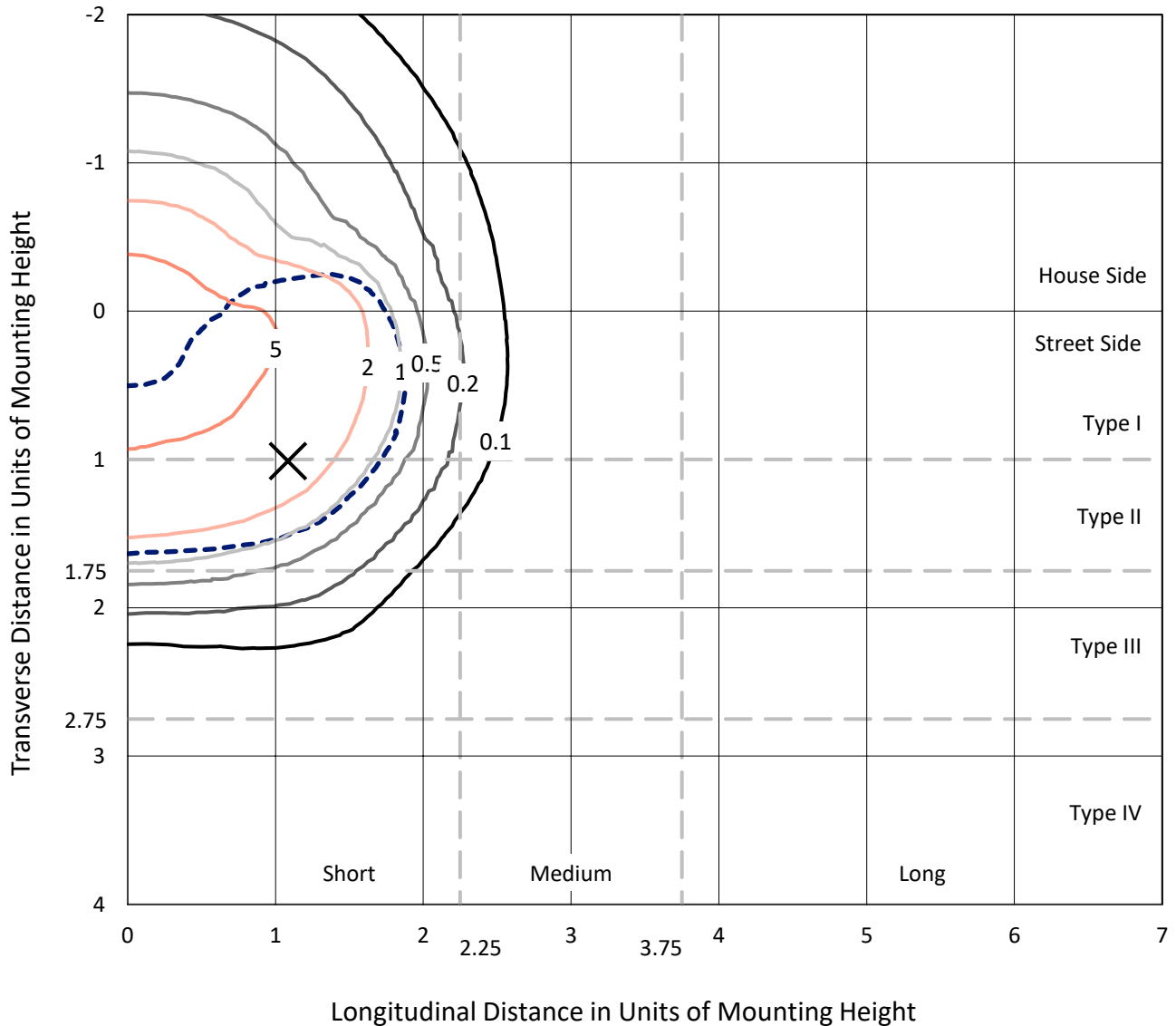
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

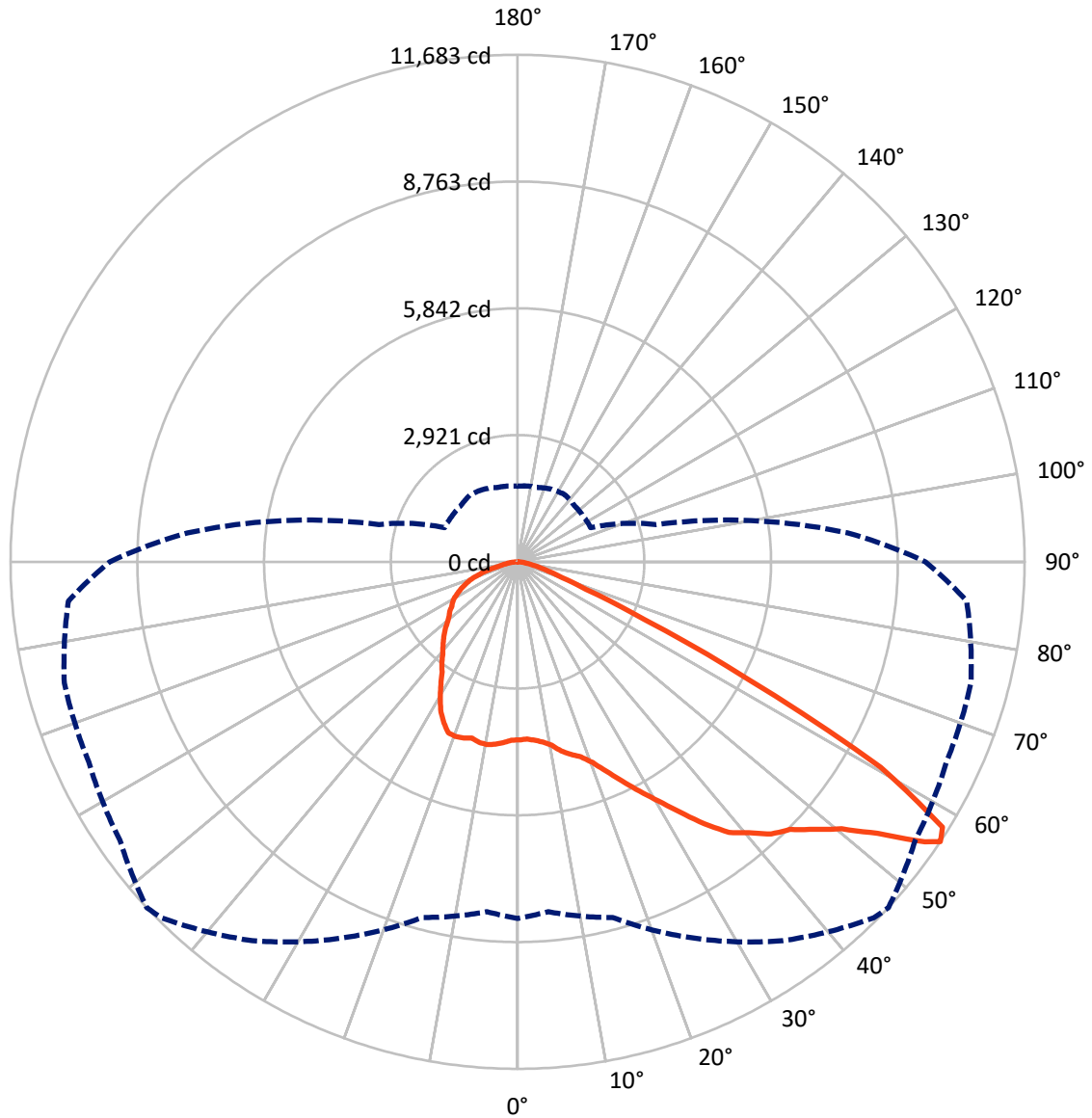
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6474.0	0.0	6474.0
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	13956.0	0.0	13956.0
	% Fixture	68.3	0.0	68.3
Total	Lumens	20430.0	0.0	20430.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.9	2.0
10°-20°	1261.3	6.2
20°-30°	2229.8	10.9
30°-40°	3349.0	16.4
40°-50°	4596.2	22.5
50°-60°	5475.8	26.8
60°-70°	2343.3	11.5
70°-80°	663.1	3.2
80°-90°	111.6	0.5
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°	20430.0	100.0
0°-180°	20430.0	100.0

Coefficient of Utilization

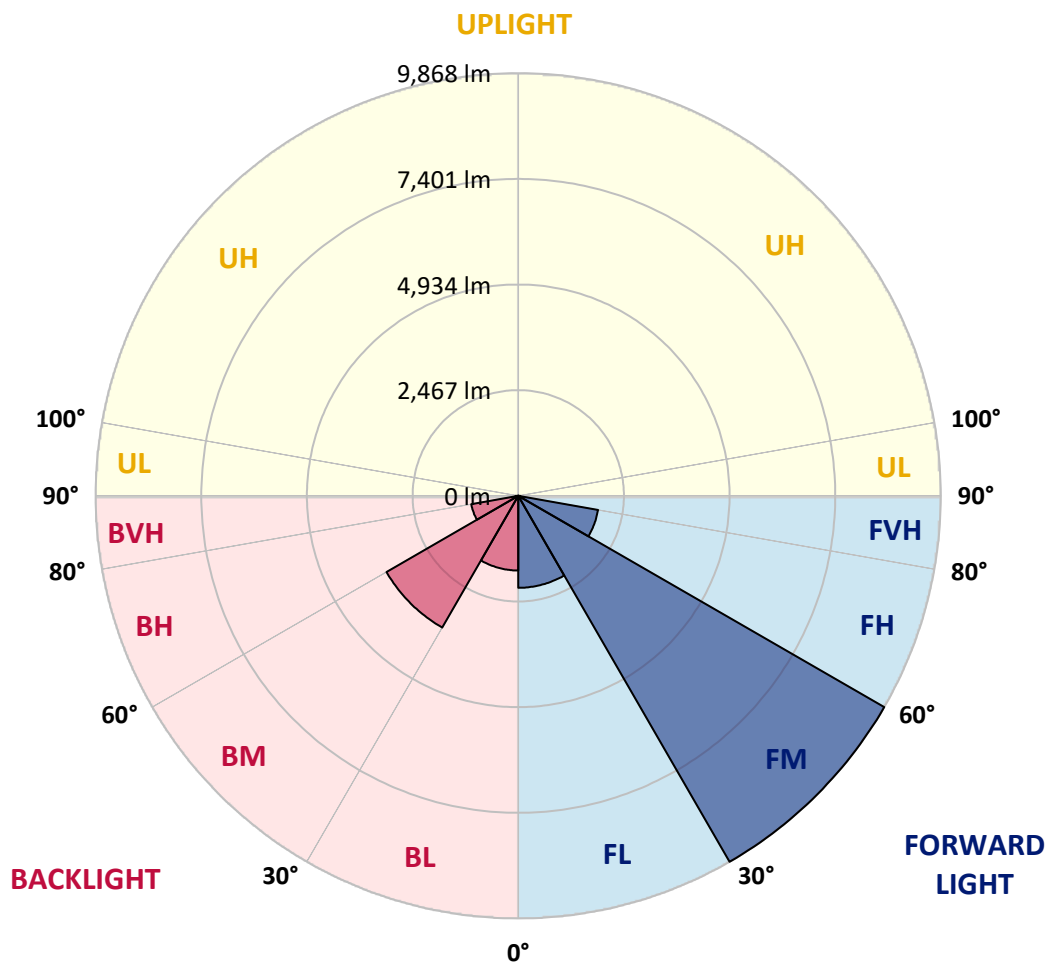


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2147.9	10.5			
FM (30°-60°)	9868.2	48.3			
FH (60°-80°)	1892.6	9.3			G2/5000
FVH (80°-90°)	47.4	0.2			G1/100
BL (0°-30°)	1743.1	8.5	B3/2500		
BM (30°-60°)	3552.8	17.4	B3/5000		
BH (60°-80°)	1113.9	5.5	B3/2500		G3/2500
BVH (80°-90°)	64.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4103.8	4103.8	4103.8	4103.8	4103.8	4103.8	4103.8	4103.8	4103.8	4103.8	4103.8
2.5°	4088.1	4080.3	4075.1	4116.8	4101.2	4103.8	4088.1	4103.8	4114.2	4090.8	4124.6
5°	4080.3	4103.8	4083.0	4096.0	4129.9	4119.4	4129.9	4161.1	4153.3	4145.4	4135.0
7.5°	4153.3	4155.9	4171.5	4176.8	4187.2	4176.8	4192.3	4221.0	4213.2	4168.9	4174.1
10°	4257.5	4262.7	4265.3	4294.0	4312.2	4314.8	4296.6	4270.6	4267.9	4327.9	4286.1
12.5°	4377.4	4364.4	4395.6	4406.0	4426.8	4450.3	4473.7	4419.0	4452.9	4455.5	4406.0
15°	4552.0	4565.0	4528.5	4528.5	4536.3	4538.9	4604.0	4578.0	4572.8	4544.1	4565.0
17.5°	4812.5	4723.9	4721.3	4684.8	4679.6	4700.4	4723.9	4744.7	4815.1	4757.7	4645.7
20°	5002.7	5023.6	4948.0	4903.7	4911.5	4958.4	4934.9	5028.7	5078.2	4984.4	4875.0
22.5°	5338.8	5268.5	5286.7	5187.7	5195.5	5245.0	5242.4	5338.8	5367.5	5218.9	5060.0
25°	5565.5	5547.2	5562.9	5484.8	5495.2	5534.2	5596.7	5755.7	5708.8	5544.7	5177.3
27.5°	5896.4	5859.9	5846.9	5818.2	5807.8	5912.0	5985.0	6154.4	6120.5	5880.8	5385.7
30°	6235.1	6211.7	6224.7	6107.5	6149.1	6370.6	6391.5	6623.4	6607.7	6185.6	5617.6
32.5°	6469.6	6482.7	6506.1	6441.0	6626.0	6803.2	6873.5	7136.7	7149.7	6709.4	6065.7
35°	6847.4	6803.2	6816.2	6891.7	6977.7	7300.8	7415.5	7590.0	7699.5	7259.1	6495.7
37.5°	7084.6	7131.4	7076.8	7196.6	7420.6	7808.9	7913.2	8092.9	8207.6	7801.1	7081.9
40°	7454.6	7379.0	7418.1	7504.0	7733.3	8238.8	8210.1	8395.2	8431.7	8262.3	7629.1
42.5°	7853.2	7816.7	7762.0	7957.4	8150.2	8517.6	8574.9	8489.0	8673.9	8713.0	8410.8
45°	8330.0	8374.3	8382.1	8387.3	8556.7	8877.2	8799.0	8723.5	8937.1	9221.1	8895.4
47.5°	8773.0	8632.3	8733.9	8874.6	9114.3	9116.9	9208.1	9028.3	9255.0	9507.7	9333.1
50°	8921.5	8853.7	8989.2	9255.0	9624.9	9664.1	9674.5	9419.1	9536.4	9737.0	9484.2
52.5°	8864.2	8840.7	9187.3	9599.0	10140.9	10338.9	10391.0	10075.7	10140.9	10049.6	9817.8
55°	8590.5	8660.9	9010.1	9849.0	10680.2	11292.5	11391.6	10992.9	10578.6	10649.0	10393.6
56°	8215.4	8092.9	8483.7	9565.0	10656.8	11602.6	11683.4	11185.7	10904.3	10813.2	10388.4
57.5°	6969.9	6810.9	7324.3	8606.2	10065.3	11485.4	11545.3	11266.5	10849.6	10664.6	9630.2
60°	4080.3	4158.5	4809.9	5935.5	7764.6	9416.5	9617.2	9820.4	9541.6	8713.0	7167.9
62.5°	1969.8	1920.3	2386.7	3402.8	4731.7	6011.0	5951.1	6521.8	6834.4	6190.9	4525.9
65°	1031.8	1026.6	1302.8	1857.7	2600.3	3157.9	3212.6	3520.1	3950.1	3189.2	2298.1
67.5°	758.3	779.1	917.1	1305.4	1672.8	1706.6	1698.8	1852.6	1894.2	1602.4	1412.2
70°	594.1	604.5	706.1	992.7	1245.4	1115.1	1091.7	1110.0	1232.4	1284.5	1222.0
72.5°	429.9	440.4	526.3	669.6	779.1	760.8	776.4	878.1	1029.2	1083.9	1018.8
75°	286.6	294.4	341.3	409.0	461.2	497.7	526.3	643.5	784.3	815.6	784.3
77.5°	198.0	205.9	237.1	289.2	294.4	317.9	328.3	383.0	469.0	508.1	487.3
80°	112.0	112.0	127.7	148.5	182.4	213.7	218.8	263.2	302.2	328.3	333.5
82.5°	52.1	54.7	67.7	91.2	119.9	148.5	153.7	182.4	211.0	237.1	244.9
85°	26.1	28.7	39.1	54.7	73.0	88.6	86.0	88.6	93.8	88.6	91.2
87.5°	7.8	7.8	10.4	13.0	10.4	13.0	13.0	15.7	18.2	20.8	23.4
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°	4103.8	4103.8	4103.8	4103.8	4103.8	4103.8	4103.8	4103.8	4103.8	4103.8	4103.8
2.5°	4127.2	4135.0	4083.0	4132.4	4114.2	4111.6	4148.1	4142.9	4155.9	4150.7	4119.4
5°	4129.9	4111.6	4166.3	4116.8	4140.3	4189.8	4155.9	4234.1	4195.0	4221.0	4163.7
7.5°	4210.6	4215.8	4205.4	4226.2	4215.8	4239.2	4221.0	4239.2	4208.0	4210.6	4262.7
10°	4281.0	4265.3	4283.6	4257.5	4275.7	4267.9	4226.2	4213.2	4223.7	4210.6	4244.5
12.5°	4411.3	4382.6	4369.5	4338.3	4317.5	4239.2	4174.1	4137.6	4187.2	4195.0	4179.3
15°	4544.1	4546.7	4486.8	4416.4	4286.1	4168.9	4184.5	4197.6	4197.6	4218.4	4179.3
17.5°	4627.5	4627.5	4572.8	4432.1	4299.2	4231.4	4215.8	4174.1	4137.6	4132.4	4129.9
20°	4773.4	4729.1	4604.0	4429.4	4294.0	4262.7	4145.4	4046.5	3970.9	3944.8	3942.2
22.5°	4940.2	4828.1	4653.5	4434.7	4286.1	4241.9	4023.0	3874.5	3739.0	3681.7	3689.5
25°	5093.9	4914.1	4682.2	4411.3	4257.5	4043.9	3799.0	3593.1	3452.4	3405.5	3382.0
27.5°	5200.7	5005.3	4682.2	4432.1	4150.7	3822.4	3572.2	3309.0	3186.6	3155.3	3160.6
30°	5344.1	5120.0	4763.0	4387.8	3937.0	3535.8	3236.1	3064.1	2991.2	2965.1	2983.4
32.5°	5680.1	5419.6	4875.0	4281.0	3684.2	3249.1	3006.8	2910.4	2803.6	2751.5	2733.2
35°	6044.9	5703.6	4984.4	4101.2	3400.3	2988.6	2837.4	2748.9	2621.2	2563.9	2574.3
37.5°	6560.8	6068.4	4992.3	3804.1	3092.8	2842.7	2704.6	2566.5	2462.3	2373.7	2347.6
40°	7256.5	6566.0	4974.0	3491.5	2845.3	2670.7	2569.1	2397.2	2279.9	2217.4	2230.4
42.5°	7868.8	7149.7	4898.4	3137.1	2621.2	2553.4	2438.8	2269.4	2154.8	2089.7	2084.4
45°	8384.8	7579.6	4755.2	2834.9	2433.6	2423.2	2290.3	2160.0	2068.8	2008.9	2034.9
47.5°	8861.5	7926.2	4538.9	2532.6	2261.6	2282.4	2154.8	2074.0	2016.7	1962.0	1959.4
50°	9033.5	7920.9	4348.7	2282.4	2123.6	2113.1	2107.9	2021.9	1962.0	1915.1	1936.0
52.5°	9320.1	8009.5	4142.9	2110.5	1998.5	2001.1	2019.3	1956.8	1889.1	1860.4	1886.4
55°	9731.8	8022.5	3689.5	1909.9	1894.2	1912.5	1912.5	1870.8	1813.5	1790.0	1777.0
56°	9395.7	7634.3	3309.0	1857.7	1842.2	1842.2	1891.6	1844.7	1774.4	1756.2	1740.5
57.5°	8666.2	6688.5	2769.7	1795.3	1771.8	1808.3	1834.3	1784.8	1719.7	1693.6	1709.3
60°	5977.2	4525.9	2081.8	1659.7	1659.7	1719.7	1740.5	1667.6	1638.9	1636.3	1615.5
62.5°	3488.9	2636.8	1628.5	1537.3	1542.5	1592.0	1607.7	1565.9	1529.4	1573.8	1594.6
65°	1850.0	1573.8	1396.6	1407.0	1409.6	1448.7	1516.4	1513.9	1511.3	1524.3	1526.9
67.5°	1339.2	1308.0	1268.9	1258.5	1263.7	1292.3	1360.1	1412.2	1409.6	1378.3	1354.9
70°	1193.4	1149.1	1125.6	1128.2	1107.4	1141.2	1196.0	1229.9	1169.9	1133.4	1117.8
72.5°	992.7	979.7	964.0	966.7	925.0	917.1	854.6	854.6	839.0	828.6	846.8
75°	758.3	753.0	760.8	747.8	703.5	656.6	620.1	586.2	534.2	513.3	502.8
77.5°	479.4	495.1	513.3	484.6	466.4	432.5	396.0	362.1	320.5	297.1	297.1
80°	325.7	338.7	351.7	346.6	325.7	294.4	265.8	229.3	200.6	182.4	179.8
82.5°	247.5	257.9	276.2	255.3	234.5	208.4	185.0	158.9	132.9	112.0	112.0
85°	88.6	101.6	112.0	122.5	130.3	132.9	114.6	93.8	75.6	59.9	57.3
87.5°	23.4	26.1	28.7	26.1	26.1	26.1	28.7	26.1	23.4	18.2	18.2
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)