

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: P652412

Luminaire Tested: **GALN-SA5B-840-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652412
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-SA5B-840-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 800mA 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: 20432.1 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

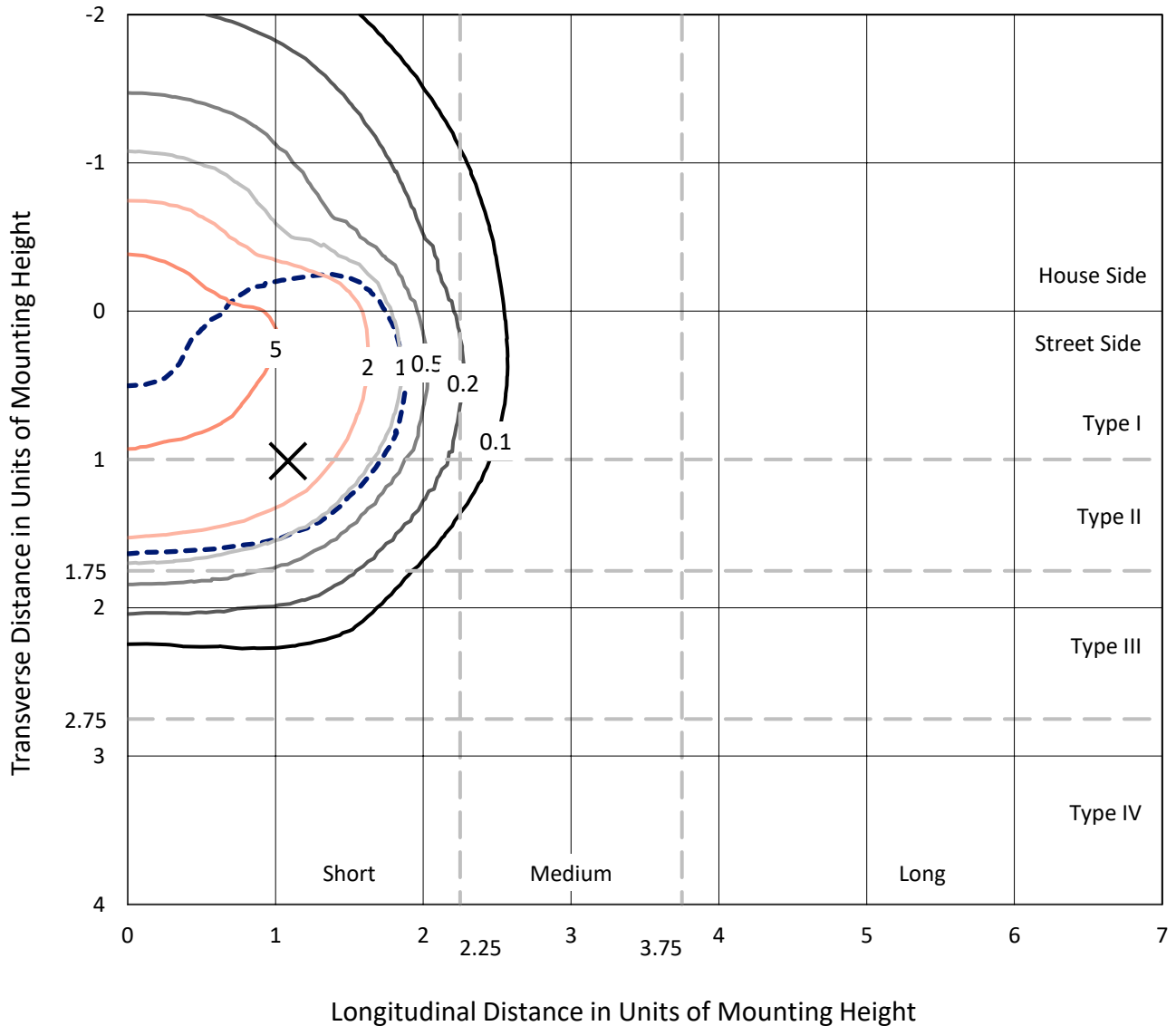
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

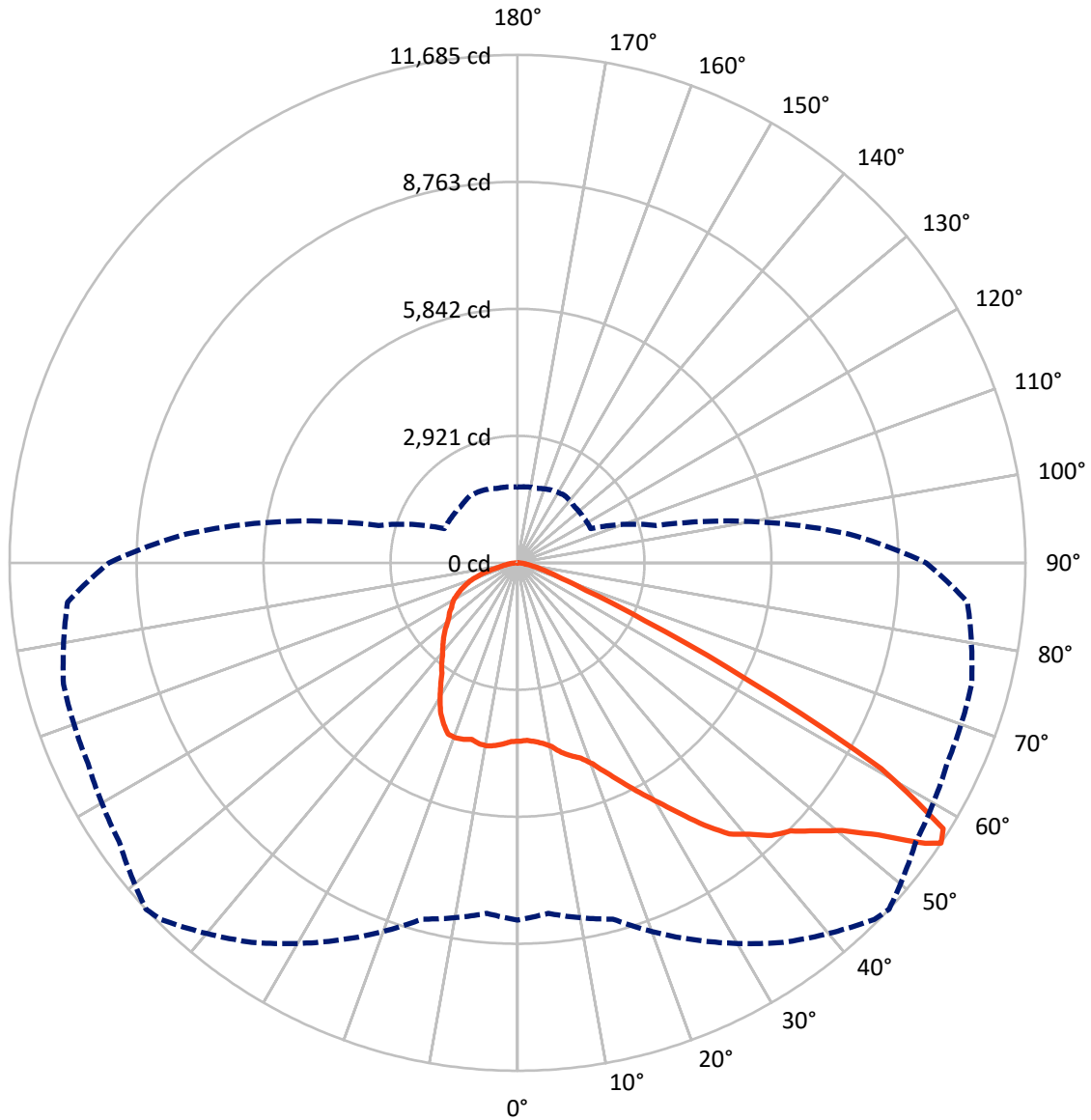
✕ Max cd
 - - - 1/2 Max cd



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	6474.7	0.0	6474.7
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	13957.4	0.0	13957.4
	% Fixture	68.3	0.0	68.3
Total	Lumens	20432.1	0.0	20432.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.9	2.0
10°-20°	1261.5	6.2
20°-30°	2230.0	10.9
30°-40°	3349.4	16.4
40°-50°	4596.7	22.5
50°-60°	5476.3	26.8
60°-70°	2343.5	11.5
70°-80°	663.2	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°	20432.1	100.0
0°-180°	20432.1	100.0

Coefficient of Utilization

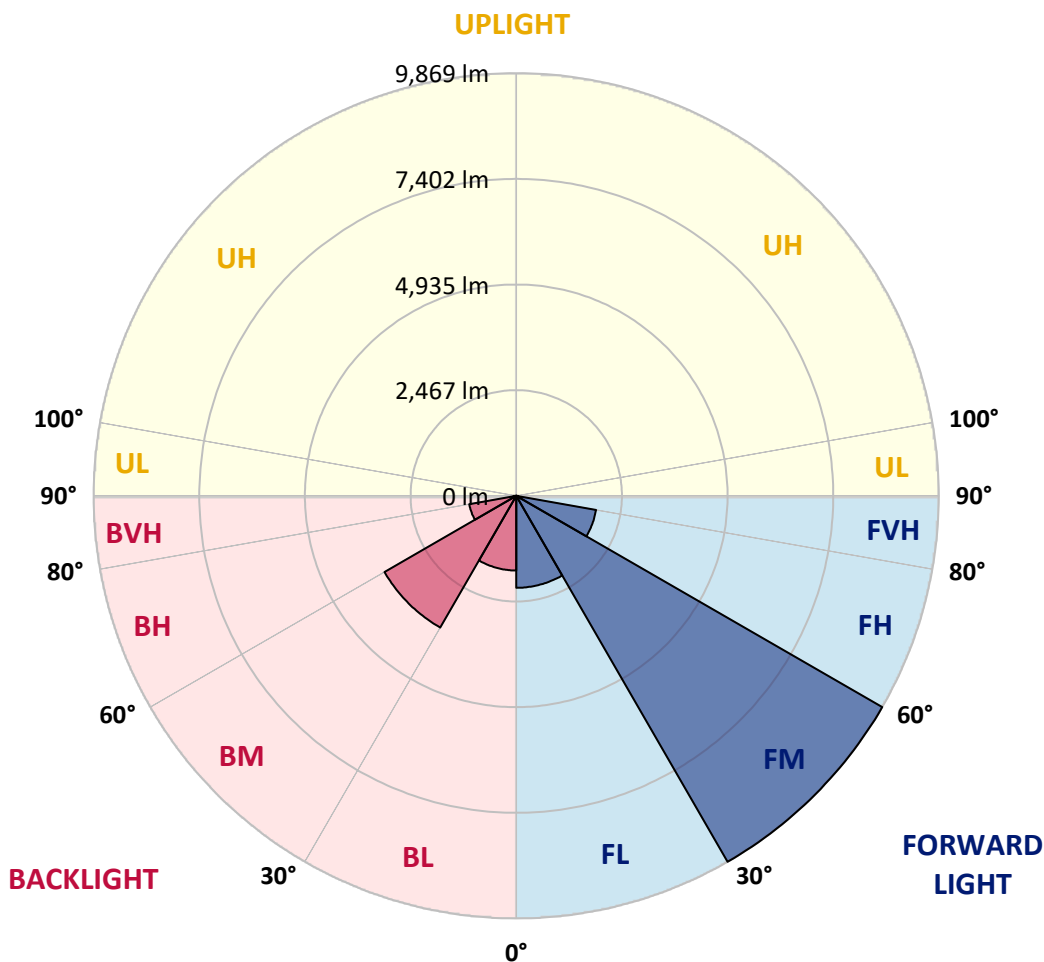


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2148.1	10.5			
FM (30°-60°)	9869.2	48.3			
FH (60°-80°)	1892.7	9.3			G2/5000
FVH (80°-90°)	47.4	0.2			G1/100
BL (0°-30°)	1743.3	8.5	B3/2500		
BM (30°-60°)	3553.2	17.4	B3/5000		
BH (60°-80°)	1114.0	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°	4104.2	4104.2	4104.2	4104.2	4104.2	4104.2	4104.2	4104.2	4104.2	4104.2	4104.2
2.5°	4088.5	4080.7	4075.5	4117.2	4101.6	4104.2	4088.5	4104.2	4114.6	4091.1	4125.0
5°	4080.7	4104.2	4083.3	4096.3	4130.2	4119.8	4130.2	4161.5	4153.7	4145.9	4135.4
7.5°	4153.7	4156.3	4171.9	4177.2	4187.6	4177.2	4192.8	4221.5	4213.7	4169.3	4174.6
10°	4257.9	4263.1	4265.7	4294.4	4312.6	4315.3	4297.0	4270.9	4268.3	4328.3	4286.6
12.5°	4377.8	4364.8	4396.1	4406.5	4427.3	4450.7	4474.2	4419.5	4453.3	4456.0	4406.5
15°	4552.4	4565.5	4529.0	4529.0	4536.8	4539.4	4604.5	4578.5	4573.3	4544.6	4565.5
17.5°	4813.0	4724.4	4721.8	4685.3	4680.1	4700.9	4724.4	4745.3	4815.6	4758.2	4646.2
20°	5003.2	5024.0	4948.4	4904.2	4912.0	4958.9	4935.4	5029.3	5078.8	4984.9	4875.5
22.5°	5339.3	5269.0	5287.2	5188.2	5196.0	5245.6	5243.0	5339.3	5368.0	5219.5	5060.5
25°	5566.1	5547.8	5563.5	5485.3	5495.7	5534.8	5597.4	5756.3	5709.4	5545.2	5177.8
27.5°	5897.0	5860.5	5847.5	5818.8	5808.4	5912.7	5985.6	6154.9	6121.1	5881.4	5386.3
30°	6235.8	6212.3	6225.3	6108.1	6149.7	6371.2	6392.1	6624.1	6608.4	6186.2	5618.2
32.5°	6470.3	6483.4	6506.7	6441.6	6626.7	6803.9	6874.2	7137.4	7150.4	6710.0	6066.4
35°	6848.1	6803.9	6816.9	6892.4	6978.4	7301.6	7416.2	7590.8	7700.2	7259.8	6496.3
37.5°	7085.3	7132.2	7077.4	7197.3	7421.4	7809.7	7913.9	8093.7	8208.4	7801.9	7082.6
40°	7455.3	7379.7	7418.8	7504.8	7734.1	8239.6	8211.0	8396.0	8432.5	8263.1	7629.9
42.5°	7854.0	7817.5	7762.8	7958.2	8151.1	8518.5	8575.8	8489.8	8674.8	8713.9	8411.6
45°	8330.9	8375.2	8383.0	8388.2	8557.6	8878.1	8799.9	8724.4	8938.0	9222.1	8896.4
47.5°	8773.8	8633.1	8734.8	8875.5	9115.2	9117.8	9209.0	9029.2	9255.9	9508.7	9334.1
50°	8922.3	8854.6	8990.1	9255.9	9625.9	9665.0	9675.5	9420.1	9537.4	9738.0	9485.2
52.5°	8865.1	8841.6	9188.2	9599.9	10141.9	10339.9	10392.1	10076.8	10141.9	10050.7	9818.8
55°	8591.4	8661.8	9011.0	9850.0	10681.3	11293.7	11392.7	10994.0	10579.7	10650.0	10394.7
56°	8216.2	8093.7	8484.6	9566.0	10657.8	11603.8	11684.5	11186.8	10905.4	10814.2	10389.5
57.5°	6970.6	6811.7	7325.0	8607.0	10066.3	11486.5	11546.4	11267.6	10850.7	10665.6	9631.1
60°	4080.7	4158.9	4810.4	5936.1	7765.4	9417.5	9618.1	9821.4	9542.6	8713.9	7168.7
62.5°	1970.0	1920.5	2386.9	3403.2	4732.2	6011.6	5951.8	6522.4	6835.1	6191.4	4526.3
65°	1031.9	1026.7	1302.9	1857.9	2600.6	3158.3	3213.0	3520.5	3950.4	3189.6	2298.4
67.5°	758.3	779.1	917.3	1305.5	1672.9	1706.8	1699.0	1852.7	1894.4	1602.6	1412.4
70°	594.2	604.6	706.2	992.8	1245.6	1115.3	1091.9	1110.1	1232.6	1284.7	1222.1
72.5°	430.0	440.3	526.4	669.7	779.1	760.9	776.6	878.2	1029.3	1084.0	1018.9
75°	286.6	294.4	341.4	409.1	461.2	497.7	526.4	643.6	784.3	815.6	784.3
77.5°	198.1	205.9	237.2	289.2	294.4	317.9	328.3	383.1	469.0	508.1	487.3
80°	112.0	112.0	127.7	148.5	182.4	213.7	218.9	263.1	302.3	328.3	333.5
82.5°	52.1	54.7	67.8	91.2	119.8	148.5	153.7	182.4	211.1	237.2	245.0
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	15.6	18.2	20.9	23.5
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°	4104.2	4104.2	4104.2	4104.2	4104.2	4104.2	4104.2	4104.2	4104.2	4104.2	4104.2
2.5°	4127.6	4135.4	4083.3	4132.8	4114.6	4112.0	4148.5	4143.3	4156.3	4151.1	4119.8
5°	4130.2	4112.0	4166.7	4117.2	4140.7	4190.2	4156.3	4234.5	4195.4	4221.5	4164.1
7.5°	4211.1	4216.3	4205.8	4226.7	4216.3	4239.6	4221.5	4239.6	4208.4	4211.1	4263.1
10°	4281.4	4265.7	4284.0	4257.9	4276.1	4268.3	4226.7	4213.7	4224.1	4211.1	4244.9
12.5°	4411.6	4383.0	4370.0	4338.7	4317.9	4239.6	4174.6	4138.1	4187.6	4195.4	4179.8
15°	4544.6	4547.2	4487.2	4416.8	4286.6	4169.3	4185.0	4198.0	4198.0	4218.9	4179.8
17.5°	4627.9	4627.9	4573.3	4432.5	4299.6	4231.9	4216.3	4174.6	4138.1	4132.8	4130.2
20°	4773.9	4729.6	4604.5	4429.9	4294.4	4263.1	4145.9	4046.9	3971.3	3945.2	3942.6
22.5°	4940.6	4828.6	4654.0	4435.1	4286.6	4242.3	4023.4	3874.9	3739.3	3682.1	3689.9
25°	5094.4	4914.6	4682.7	4411.6	4257.9	4044.3	3799.3	3593.4	3452.7	3405.8	3382.3
27.5°	5201.2	5005.8	4682.7	4432.5	4151.1	3822.8	3572.6	3309.4	3187.0	3155.7	3160.9
30°	5344.6	5120.4	4763.4	4388.3	3937.4	3536.2	3236.4	3064.4	2991.5	2965.5	2983.7
32.5°	5680.7	5420.2	4875.5	4281.4	3684.7	3249.5	3007.2	2910.7	2803.9	2751.8	2733.5
35°	6045.5	5704.2	4984.9	4101.6	3400.6	2988.9	2837.8	2749.1	2621.5	2564.1	2574.6
37.5°	6561.5	6069.0	4992.8	3804.5	3093.1	2843.0	2704.8	2566.7	2462.5	2373.9	2347.8
40°	7257.2	6566.7	4974.5	3491.8	2845.6	2671.0	2569.3	2397.4	2280.1	2217.5	2230.6
42.5°	7869.7	7150.4	4899.0	3137.4	2621.5	2553.7	2439.1	2269.7	2155.1	2089.9	2084.7
45°	8385.6	7580.4	4755.7	2835.2	2433.9	2423.4	2290.5	2160.3	2069.0	2009.1	2035.1
47.5°	8862.5	7926.9	4539.4	2532.8	2261.9	2282.7	2155.1	2074.2	2016.9	1962.2	1959.6
50°	9034.4	7921.7	4349.1	2282.7	2123.8	2113.3	2108.1	2022.1	1962.2	1915.3	1936.2
52.5°	9321.1	8010.4	4143.3	2110.7	1998.6	2001.2	2019.5	1957.0	1889.2	1860.5	1886.6
55°	9732.8	8023.4	3689.9	1910.1	1894.4	1912.7	1912.7	1871.0	1813.7	1790.2	1777.2
56°	9396.7	7635.1	3309.4	1857.9	1842.3	1842.3	1891.8	1844.9	1774.6	1756.3	1740.7
57.5°	8667.0	6689.1	2770.0	1795.5	1772.0	1808.5	1834.5	1785.0	1719.8	1693.8	1709.4
60°	5977.7	4526.3	2082.1	1659.9	1659.9	1719.8	1740.7	1667.7	1639.1	1636.5	1615.6
62.5°	3489.2	2637.1	1628.7	1537.4	1542.6	1592.2	1607.8	1566.1	1529.6	1573.9	1594.8
65°	1850.1	1573.9	1396.7	1407.2	1409.8	1448.9	1516.6	1514.0	1511.4	1524.4	1527.0
67.5°	1339.4	1308.1	1269.1	1258.6	1263.9	1292.5	1360.2	1412.4	1409.8	1378.5	1355.0
70°	1193.5	1149.1	1125.7	1128.3	1107.5	1141.3	1196.1	1230.0	1170.0	1133.5	1117.9
72.5°	992.8	979.8	964.1	966.7	925.1	917.3	854.7	854.7	839.1	828.6	846.9
75°	758.3	753.1	760.9	747.9	703.6	656.7	620.2	586.3	534.2	513.3	502.9
77.5°	479.5	495.1	513.3	484.7	466.4	432.5	396.1	362.2	320.5	297.0	297.0
80°	325.7	338.8	351.8	346.6	325.7	294.4	265.8	229.3	200.7	182.4	179.8
82.5°	247.6	258.0	276.2	255.4	234.6	208.5	185.0	158.9	132.9	112.0	112.0
85°	88.6	101.6	112.0	122.4	130.3	132.9	114.6	93.8	75.6	60.0	57.4
87.5°	23.5	26.1	28.7	26.1	26.1	26.1	28.7	26.1	23.5	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)