

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: P652323

Luminaire Tested: **GALN-SA4B-840-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652323  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4B-840-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17082.4 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

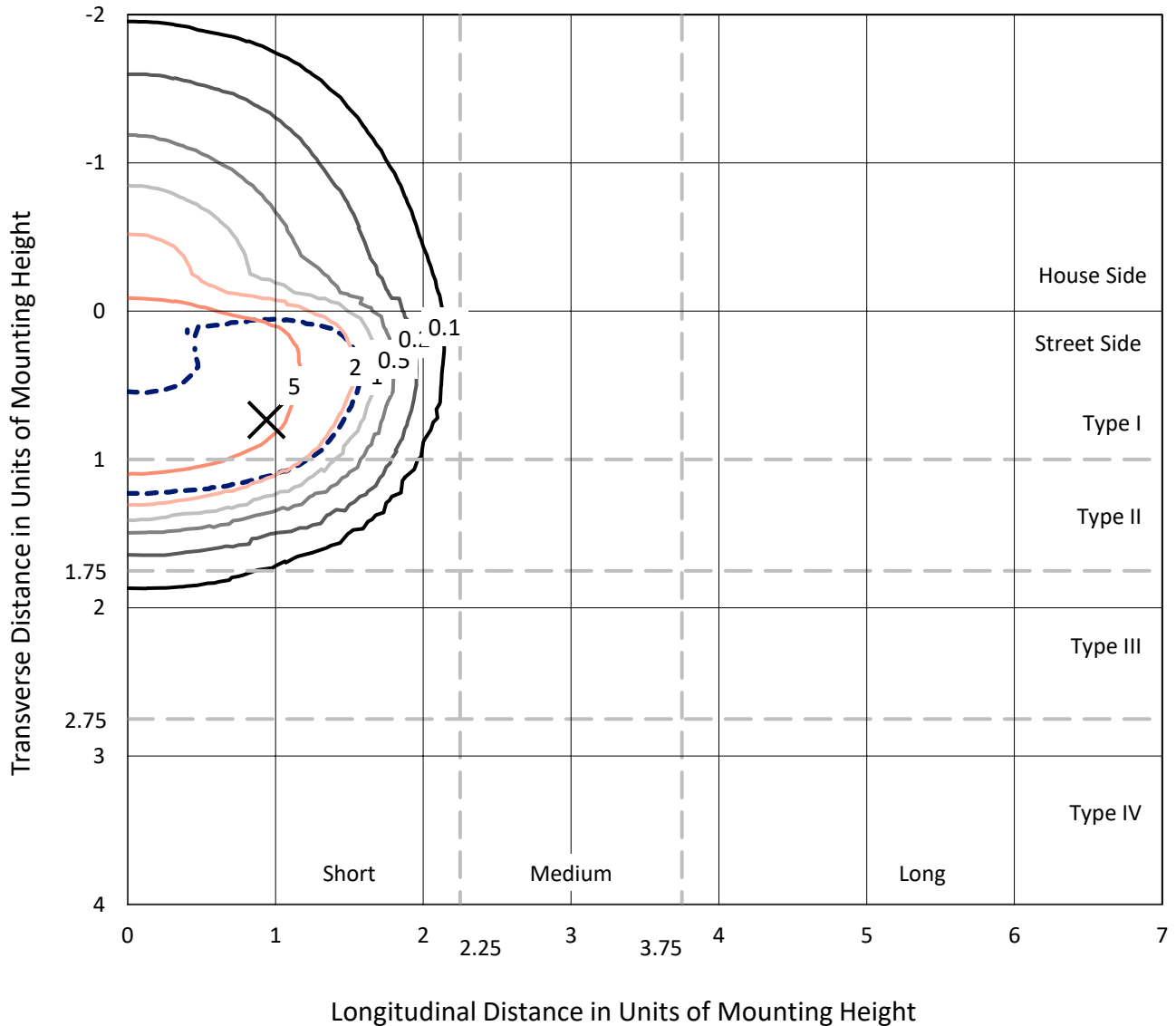
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

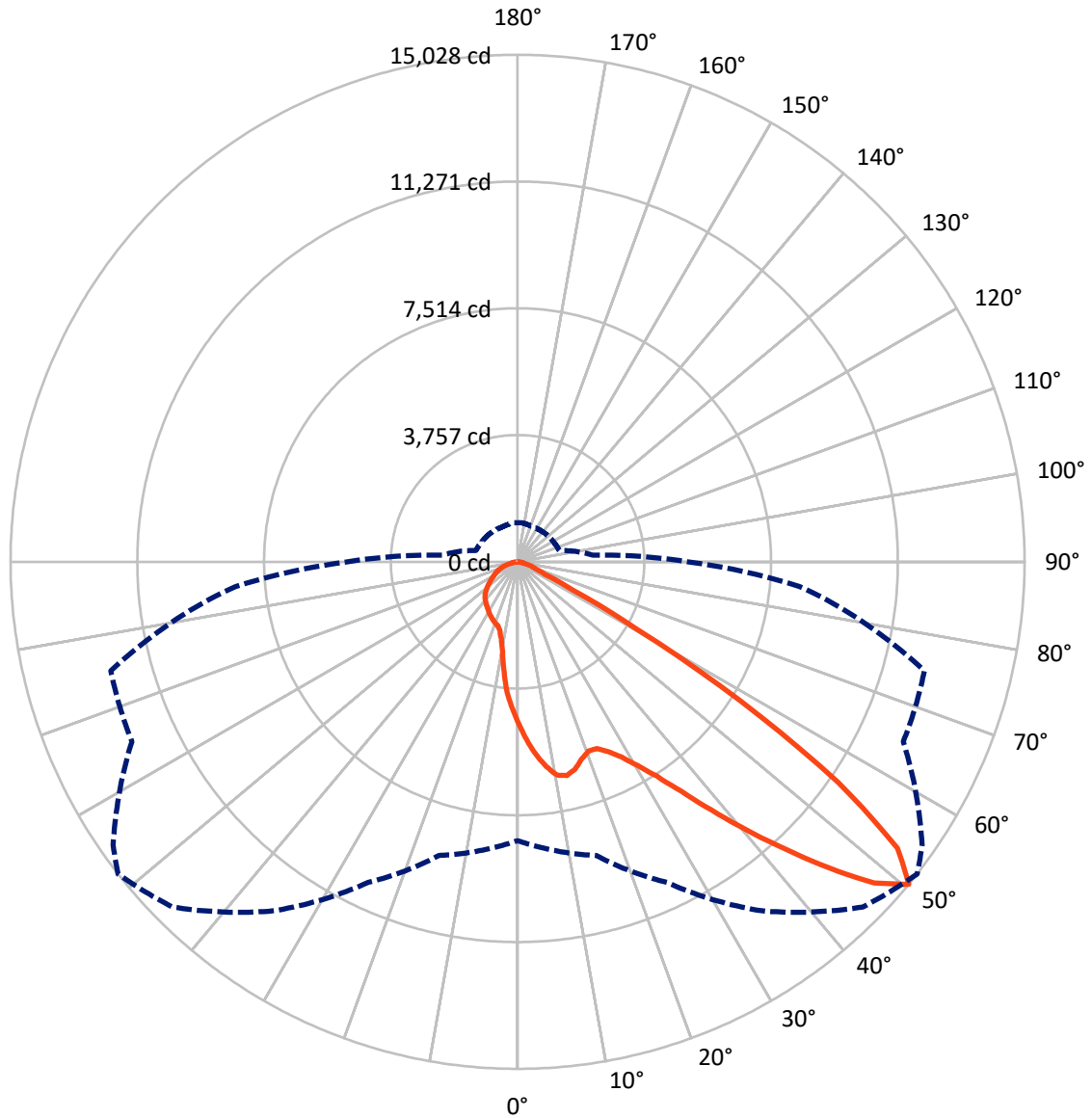
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3211.1	0.0	3211.1
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	13871.3	0.0	13871.3
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	17082.4	0.0	17082.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	443.8	2.6
10°-20°	1189.5	7.0
20°-30°	2003.7	11.7
30°-40°	3362.5	19.7
40°-50°	5143.7	30.1
50°-60°	3750.2	22.0
60°-70°	834.6	4.9
70°-80°	301.0	1.8
80°-90°	53.3	0.3
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°	17082.4	100.0
0°-180°	17082.4	100.0

**Coefficient of Utilization**

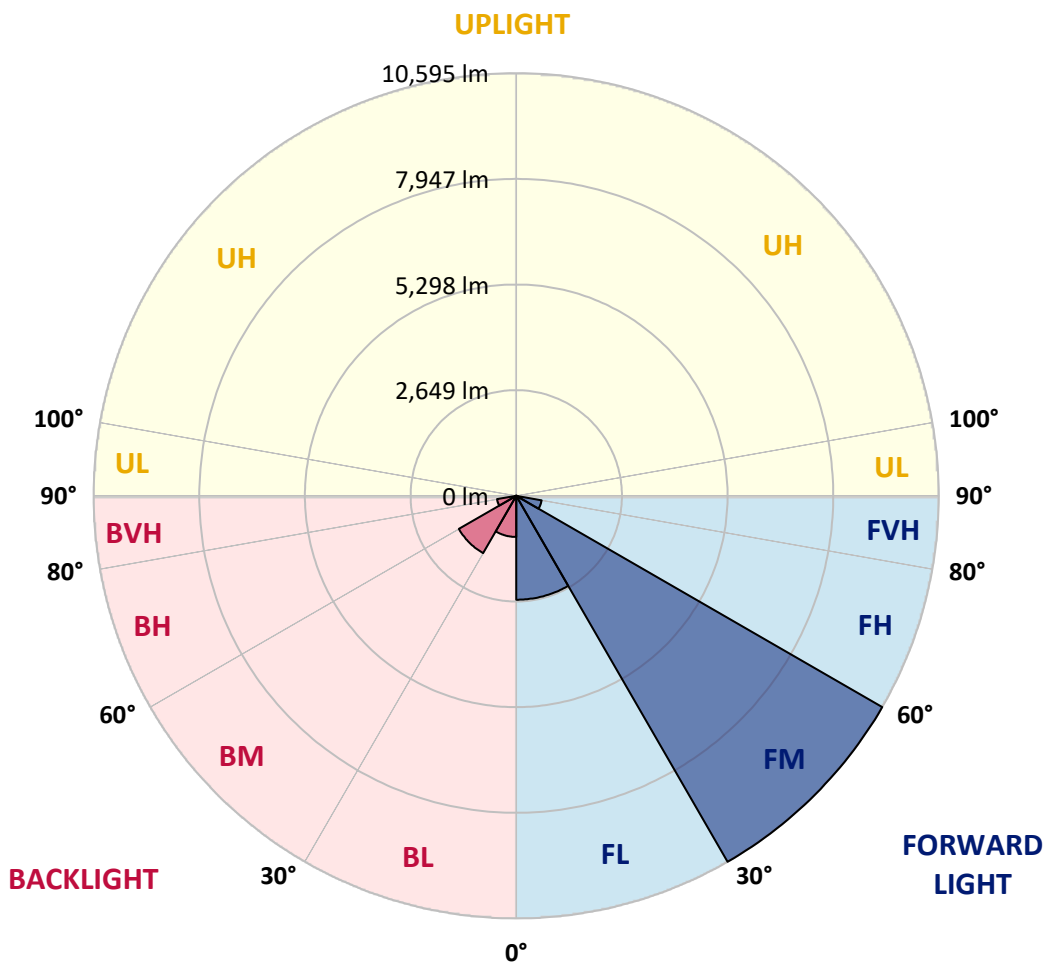


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2605.6	15.3			
FM (30°-60°)	10595.4	62.0			
FH (60°-80°)	646.4	3.8			G0/660
FVH (80°-90°)	23.9	0.1			G1/100
BL (0°-30°)	1031.5	6.0	B3/2500		
BM (30°-60°)	1661.0	9.7	B2/2500		
BH (60°-80°)	489.2	2.9	B1/500		G1/500
BVH (80°-90°)	29.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2
2.5°	5669.6	5560.5	5572.8	5494.6	5410.2	5385.5	5299.1	5216.7	5154.9	5023.2	4901.7
5°	6196.7	6163.7	6114.2	6052.5	5988.7	5832.3	5743.7	5640.8	5414.4	5210.5	5008.7
7.5°	6272.8	6266.6	6293.4	6293.4	6316.0	6256.3	6130.7	6058.6	5817.8	5486.3	5111.7
10°	5737.6	5756.1	5885.7	6054.5	6289.3	6451.9	6431.3	6412.8	6149.2	5696.3	5233.1
12.5°	5311.4	5270.2	5346.4	5490.5	5842.5	6235.8	6501.3	6503.4	6435.4	6031.9	5321.7
15°	5070.6	5099.3	5119.9	5187.9	5453.5	5908.4	6375.7	6513.6	6812.2	6268.6	5461.7
17.5°	5224.9	5128.2	5124.0	5140.5	5276.3	5618.1	6143.1	6379.8	7018.1	6573.3	5634.6
20°	5426.6	5424.6	5367.0	5346.4	5344.3	5649.0	5990.8	6311.9	7127.1	6968.6	5809.5
22.5°	5780.8	5780.8	5686.1	5640.8	5544.0	5793.1	6011.3	6229.5	7308.3	7240.3	5894.0
25°	6373.7	6276.9	6114.2	6003.1	5947.6	6036.0	6229.5	6425.2	7466.8	7528.5	6069.0
27.5°	6921.3	6769.0	6688.6	6497.1	6423.1	6371.6	6548.6	6746.2	7652.1	7977.4	6163.7
30°	7543.0	7516.2	7372.1	7125.0	6941.9	6847.2	7009.8	7205.4	7991.8	8436.5	6381.9
32.5°	8654.6	8411.8	8216.1	7913.6	7615.0	7413.3	7573.9	7703.6	8555.8	8916.1	6620.7
35°	9854.9	9776.6	9439.0	8893.5	8436.5	8255.3	8350.0	8446.8	9212.6	9649.0	7022.2
37.5°	11034.5	10927.4	10649.5	10190.5	9634.6	9266.1	9334.0	9447.3	9949.6	10637.2	7512.1
40°	11882.7	11751.0	11610.9	11543.0	10991.3	10486.9	10447.7	10476.6	10946.0	11563.6	8055.6
42.5°	11944.5	12107.0	12150.3	12424.1	12294.4	11880.6	11639.8	11645.9	11897.1	12479.7	8605.3
45°	11814.7	11664.4	11983.6	12730.9	13159.0	13352.6	12947.0	12895.6	12485.9	13010.9	8879.1
47.5°	10454.0	10495.1	11034.5	12216.2	13453.5	14318.1	14223.4	14052.5	12800.9	12992.3	8835.8
50°	8263.5	8512.6	9012.9	10484.8	12630.0	14470.4	15028.3	14633.1	12613.5	12481.8	8395.3
52.5°	5502.8	5605.8	5935.2	7835.3	10155.4	12934.7	14102.0	14192.5	12440.6	11812.7	7837.4
55°	2449.8	2441.6	2904.8	4092.6	6371.6	9842.6	11522.4	12074.2	11775.6	11131.2	7293.9
57.5°	1037.5	1072.6	1262.0	1768.4	3133.3	5939.3	7806.5	8290.3	9056.1	9140.5	5595.5
60°	702.0	706.1	757.6	885.2	1311.4	2789.5	4094.7	4675.3	5222.9	5185.8	2968.6
62.5°	551.7	566.2	605.3	656.7	778.2	1266.1	1832.2	2155.4	2190.5	1842.5	1126.1
65°	471.5	473.5	512.6	555.8	609.4	737.0	883.1	899.6	910.0	877.0	827.6
67.5°	389.1	393.2	424.1	473.5	522.9	564.1	605.3	625.9	673.2	765.8	753.5
70°	308.8	315.0	341.7	382.9	428.2	452.9	504.3	522.9	566.2	638.2	667.0
72.5°	234.7	236.7	259.4	288.2	329.4	354.1	397.3	417.9	446.7	508.5	535.3
75°	168.8	175.0	191.5	205.9	212.0	228.5	269.7	292.3	333.5	360.3	362.3
77.5°	88.6	92.7	96.8	96.8	117.3	148.2	175.0	187.4	216.1	236.7	226.5
80°	35.0	37.1	47.3	63.8	82.3	107.1	125.6	131.8	156.4	168.8	175.0
82.5°	20.6	22.6	30.9	45.3	59.7	76.2	90.6	96.8	113.2	127.7	131.8
85°	10.3	12.4	18.5	28.8	39.1	47.3	45.3	43.2	43.2	41.2	43.2
87.5°	4.1	4.1	6.1	6.1	6.1	8.2	10.3	10.3	10.3	12.4	12.4
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°	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2
2.5°	4821.5	4739.0	4662.9	4522.9	4370.6	4327.4	4150.3	4086.5	4041.2	3987.7	3971.2
5°	4846.1	4737.0	4492.0	4210.0	3985.6	3697.4	3508.0	3304.2	3155.9	3118.9	3108.6
7.5°	4897.6	4710.3	4288.3	3862.0	3403.0	3011.9	2713.3	2552.8	2410.7	2402.5	2388.1
10°	4955.3	4630.0	4065.9	3396.8	2810.1	2447.7	2268.7	2198.6	2163.6	2155.4	2151.3
12.5°	5002.6	4613.5	3816.8	2943.9	2390.1	2171.9	2118.4	2112.2	2126.6	2130.8	2139.0
15°	5023.2	4547.6	3516.2	2538.3	2128.7	2048.4	2071.0	2095.8	2106.0	2132.8	2112.2
17.5°	5062.3	4463.2	3145.7	2217.2	1982.5	1997.0	2036.1	2064.8	2081.3	2099.8	2073.1
20°	5082.8	4387.1	2797.8	2025.7	1931.0	1957.8	2011.3	2034.0	2054.6	2062.8	2031.9
22.5°	5064.3	4230.6	2491.0	1871.3	1881.7	1916.6	1964.0	1988.7	1976.4	1943.4	1924.9
25°	5015.0	4010.3	2171.9	1772.5	1811.6	1873.4	1910.4	1891.9	1869.3	1850.8	1844.6
27.5°	5012.9	3740.6	1941.4	1681.9	1752.0	1836.3	1824.0	1807.5	1817.8	1803.4	1787.0
30°	5023.2	3479.1	1752.0	1630.4	1708.7	1749.9	1764.2	1747.9	1760.1	1733.4	1741.6
32.5°	4969.6	3223.9	1628.4	1570.7	1657.3	1655.2	1702.5	1714.9	1686.0	1630.4	1638.7
35°	4992.3	3018.0	1523.4	1544.0	1599.6	1599.6	1636.7	1622.2	1546.1	1513.1	1521.4
37.5°	5148.8	2816.3	1471.9	1507.0	1544.0	1560.5	1548.1	1486.4	1467.8	1467.8	1471.9
40°	5297.0	2643.3	1441.1	1498.7	1492.5	1502.9	1412.3	1418.4	1418.4	1420.4	1410.2
42.5°	5428.7	2526.0	1416.3	1449.3	1459.6	1406.1	1350.5	1344.3	1358.7	1356.7	1348.5
45°	5476.1	2429.2	1381.3	1393.7	1401.9	1313.5	1286.6	1274.3	1290.8	1297.0	1305.2
47.5°	5294.9	2348.9	1342.2	1317.5	1301.1	1243.4	1208.4	1185.8	1206.4	1241.4	1249.6
50°	5062.3	2244.0	1280.5	1233.2	1198.2	1173.4	1148.7	1126.1	1140.5	1165.2	1159.1
52.5°	4718.5	2079.3	1202.3	1152.8	1093.1	1099.4	1076.6	1064.4	1072.6	1072.6	1066.4
55°	4228.5	1708.7	1070.5	1035.5	986.1	1002.6	1006.7	990.2	973.8	988.2	975.8
57.5°	2886.2	1206.4	955.2	955.2	905.8	928.5	926.4	887.3	848.1	852.3	844.0
60°	1669.6	961.4	881.1	872.9	821.4	839.9	844.0	817.3	757.6	761.7	753.5
62.5°	949.1	821.4	769.9	757.6	747.3	763.8	763.8	728.8	677.3	681.5	673.2
65°	807.0	761.7	687.6	685.5	681.5	685.5	669.1	632.0	586.7	568.2	570.3
67.5°	732.8	704.1	632.0	613.5	601.1	599.0	568.2	533.2	512.6	496.1	494.1
70°	642.3	619.6	566.2	541.4	529.1	500.2	469.4	446.7	417.9	409.7	417.9
72.5°	508.5	506.5	485.8	459.1	432.4	409.7	382.9	352.0	325.3	319.1	304.7
75°	352.0	356.2	360.3	356.2	333.5	304.7	273.8	249.1	216.1	197.6	193.5
77.5°	230.6	236.7	243.0	234.7	220.3	193.5	172.9	142.0	117.3	102.9	100.8
80°	168.8	177.0	181.2	175.0	158.5	137.9	115.3	90.6	72.1	59.7	59.7
82.5°	129.7	137.9	142.0	131.8	115.3	98.8	82.3	63.8	49.4	39.1	37.1
85°	45.3	43.2	51.5	53.5	63.8	59.7	49.4	37.1	28.8	20.6	18.5
87.5°	12.4	12.4	14.4	14.4	12.4	10.3	10.3	10.3	8.2	6.1	6.1
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)