

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: P648363

Luminaire Tested: **GALN-SA4B-835-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648363
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-835-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 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: 15904.3 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

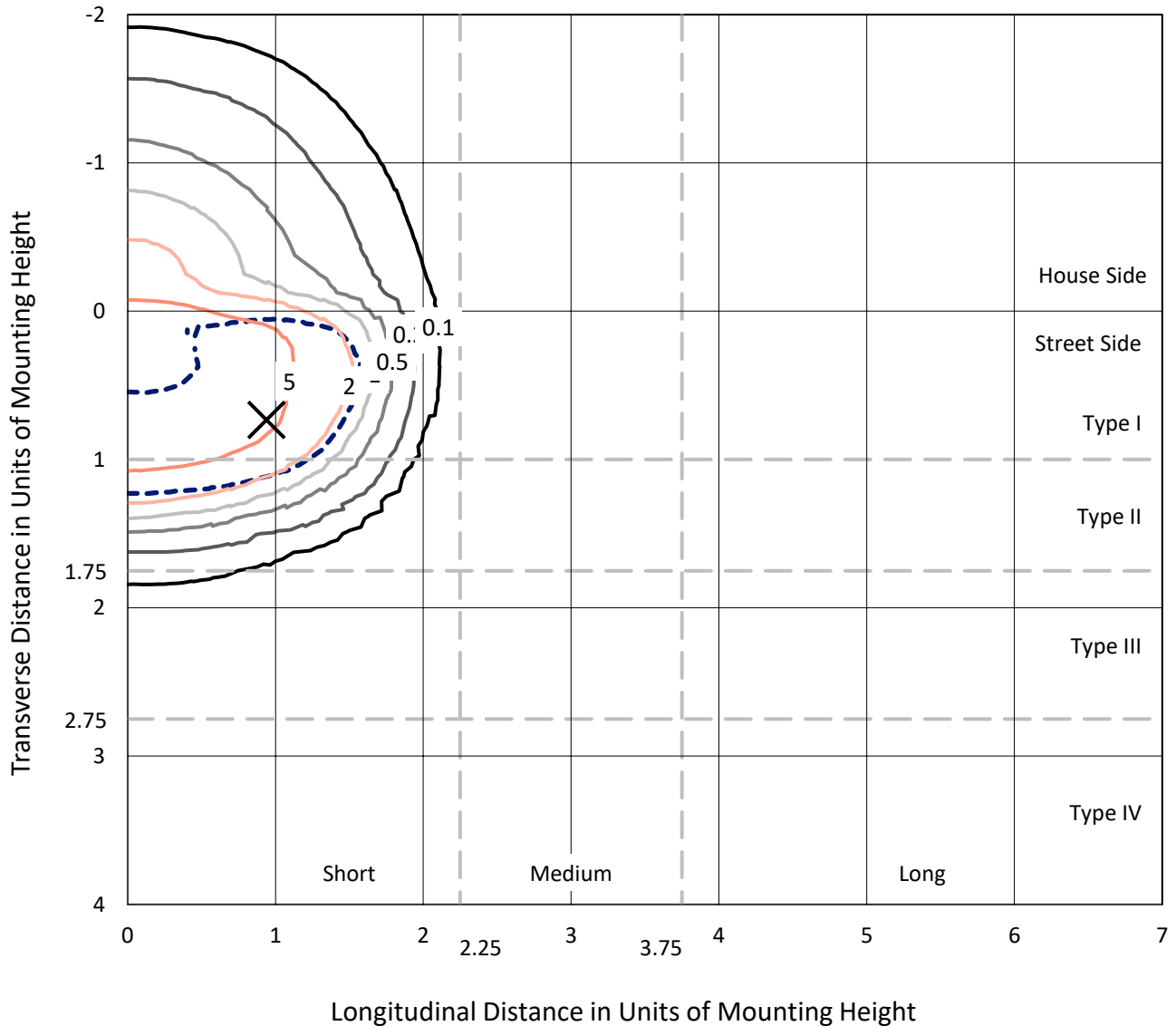
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

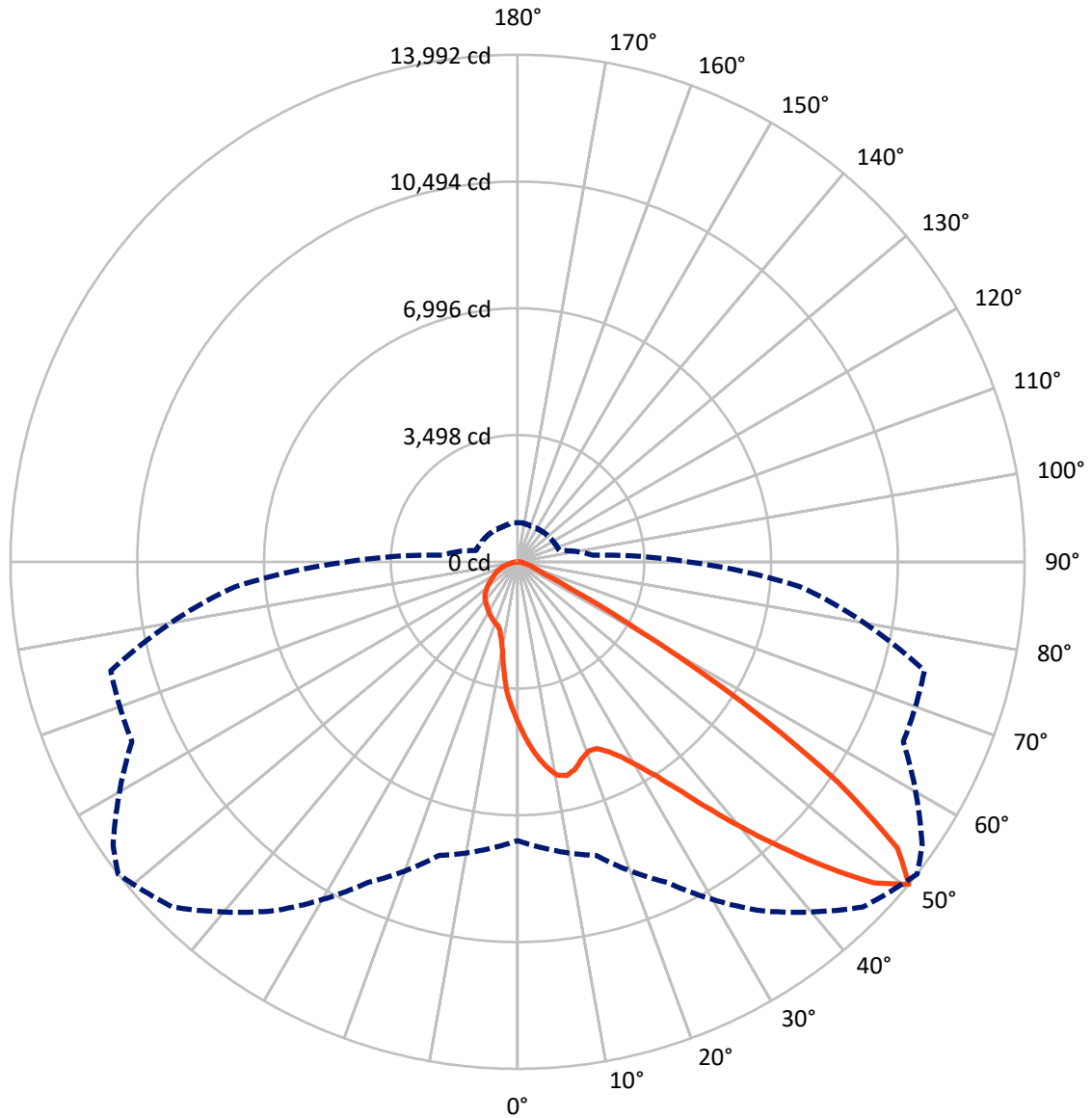
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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
House Side	Lumens	2989.6	0.0	2989.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	12914.7	0.0	12914.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	15904.3	0.0	15904.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.2	2.6
10°-20°	1107.5	7.0
20°-30°	1865.6	11.7
30°-40°	3130.6	19.7
40°-50°	4789.0	30.1
50°-60°	3491.6	22.0
60°-70°	777.0	4.9
70°-80°	280.3	1.8
80°-90°	49.6	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°	15904.3	100.0
0°-180°	15904.3	100.0

Coefficient of Utilization

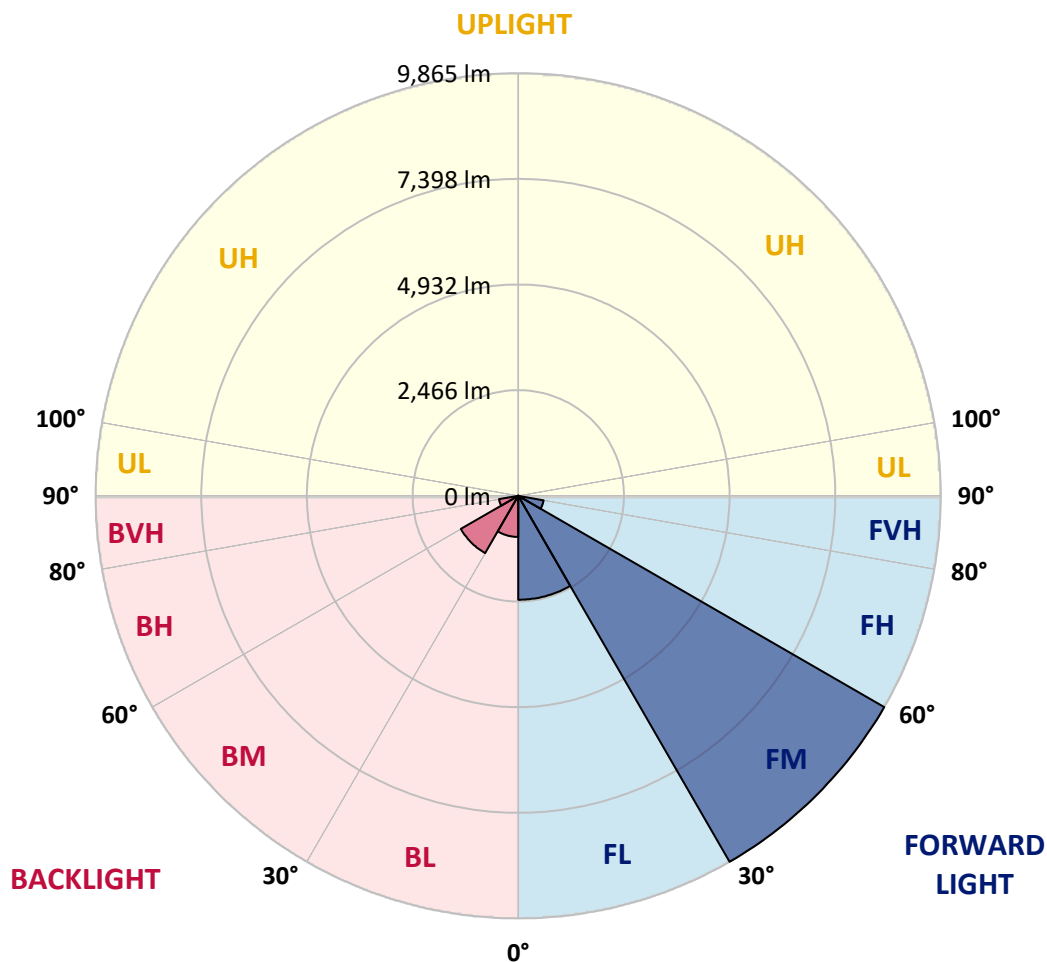


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2425.9	15.3			
FM (30°-60°)	9864.7	62.0			
FH (60°-80°)	601.8	3.8			G0/660
FVH (80°-90°)	22.2	0.1			G1/100
BL (0°-30°)	960.3	6.0	B2/1000		
BM (30°-60°)	1546.4	9.7	B2/2500		
BH (60°-80°)	455.5	2.9	B1/500		G1/500
BVH (80°-90°)	27.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4483.1	4483.1	4483.1	4483.1	4483.1	4483.1	4483.1	4483.1	4483.1	4483.1	4483.1
2.5°	5278.6	5177.0	5188.5	5115.7	5037.1	5014.1	4933.6	4856.9	4799.4	4676.8	4563.6
5°	5769.3	5738.6	5692.6	5635.1	5575.7	5430.0	5347.6	5251.7	5041.0	4851.2	4663.3
7.5°	5840.2	5834.4	5859.3	5859.3	5880.4	5824.8	5707.9	5640.8	5416.6	5108.0	4759.2
10°	5341.9	5359.1	5479.8	5637.0	5855.5	6006.9	5987.8	5970.5	5725.1	5303.5	4872.2
12.5°	4945.1	4906.7	4977.7	5111.8	5439.6	5805.7	6052.9	6054.9	5991.6	5615.9	4954.7
15°	4720.9	4747.6	4766.8	4830.1	5077.4	5500.9	5936.0	6064.4	6342.4	5836.3	5085.0
17.5°	4864.5	4774.5	4770.7	4786.0	4912.5	5230.7	5719.4	5939.8	6534.1	6120.0	5246.0
20°	5052.4	5050.5	4996.9	4977.7	4975.7	5259.4	5577.6	5876.6	6635.6	6488.0	5408.9
22.5°	5382.1	5382.1	5293.9	5251.7	5161.7	5393.6	5596.7	5799.9	6804.3	6741.0	5487.5
25°	5934.1	5844.0	5692.6	5589.1	5537.4	5619.7	5799.9	5982.0	6951.9	7009.3	5650.4
27.5°	6443.9	6302.1	6227.4	6049.1	5980.1	5932.2	6097.0	6281.0	7124.4	7427.2	5738.6
30°	7022.8	6997.8	6863.7	6633.7	6463.1	6375.0	6526.4	6708.4	7440.6	7854.7	5941.8
32.5°	8057.8	7831.6	7649.5	7367.8	7089.8	6902.1	7051.5	7172.3	7965.8	8301.2	6164.1
35°	9175.3	9102.4	8788.1	8280.1	7854.7	7685.9	7774.1	7864.2	8577.2	8983.6	6537.9
37.5°	10273.5	10173.8	9915.1	9487.7	8970.1	8627.1	8690.3	8795.8	9263.4	9903.6	6994.1
40°	11063.2	10940.5	10810.2	10746.9	10233.3	9763.7	9727.2	9754.1	10191.1	10766.1	7500.0
42.5°	11120.7	11272.1	11312.4	11567.3	11446.5	11061.3	10837.0	10842.7	11076.6	11619.0	8011.8
45°	10999.9	10860.0	11157.1	11852.9	12251.5	12431.7	12054.1	12006.2	11624.8	12113.6	8266.8
47.5°	9733.0	9771.3	10273.5	11373.7	12525.7	13330.7	13242.5	13083.4	11918.0	12096.3	8226.4
50°	7693.6	7925.5	8391.3	9761.7	11758.9	13472.5	13991.9	13623.9	11743.6	11621.0	7816.3
52.5°	5123.3	5219.2	5525.9	7295.0	9455.0	12042.6	13129.4	13213.8	11582.6	10998.0	7296.9
55°	2280.9	2273.2	2704.5	3810.4	5932.2	9163.8	10727.7	11241.5	10963.5	10363.6	6790.9
57.5°	966.0	998.6	1175.0	1646.4	2917.2	5529.7	7268.1	7718.6	8431.6	8510.1	5209.6
60°	653.6	657.4	705.3	824.2	1220.9	2597.1	3812.3	4352.9	4862.7	4828.1	2763.9
62.5°	513.6	527.1	563.5	611.4	724.5	1178.8	1705.8	2006.8	2039.4	1715.5	1048.4
65°	438.9	440.8	477.2	517.5	567.4	686.1	822.2	837.6	847.2	816.5	770.6
67.5°	362.3	366.1	394.9	440.8	486.9	525.2	563.5	582.7	626.8	713.0	701.5
70°	287.5	293.2	318.1	356.5	398.7	421.6	469.6	486.9	527.1	594.1	621.0
72.5°	218.5	220.4	241.5	268.3	306.7	329.6	369.9	389.1	415.9	473.4	498.4
75°	157.1	162.9	178.3	191.7	197.4	212.7	251.1	272.2	310.5	335.4	337.3
77.5°	82.4	86.3	90.1	90.1	109.2	138.0	162.9	174.5	201.2	220.4	210.9
80°	32.6	34.5	44.1	59.4	76.7	99.7	116.9	122.7	145.6	157.1	162.9
82.5°	19.2	21.1	28.7	42.2	55.6	70.9	84.3	90.1	105.4	118.9	122.7
85°	9.6	11.5	17.2	26.9	36.4	44.1	42.2	40.2	40.2	38.4	40.2
87.5°	3.8	3.8	5.7	5.7	5.7	7.7	9.6	9.6	9.6	11.5	11.5
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°	4483.1	4483.1	4483.1	4483.1	4483.1	4483.1	4483.1	4483.1	4483.1	4483.1	4483.1
2.5°	4488.9	4412.2	4341.3	4211.0	4069.2	4028.9	3864.0	3804.7	3762.5	3712.7	3697.3
5°	4511.9	4410.3	4182.2	3919.6	3710.7	3442.4	3266.0	3076.3	2938.3	2903.8	2894.2
7.5°	4559.8	4385.4	3992.5	3595.7	3168.3	2804.2	2526.2	2376.7	2244.5	2236.8	2223.4
10°	4613.5	4310.6	3785.5	3162.5	2616.3	2278.9	2112.2	2047.0	2014.4	2006.8	2002.9
12.5°	4657.6	4295.3	3553.6	2740.9	2225.3	2022.1	1972.3	1966.5	1980.0	1983.8	1991.5
15°	4676.8	4234.0	3273.7	2363.3	1981.9	1907.2	1928.2	1951.2	1960.8	1985.7	1966.5
17.5°	4713.2	4155.4	2928.7	2064.3	1845.8	1859.2	1895.6	1922.4	1937.8	1955.0	1930.1
20°	4732.3	4084.5	2604.8	1886.0	1797.8	1822.7	1872.6	1893.7	1912.9	1920.5	1891.8
22.5°	4715.1	3938.8	2319.2	1742.3	1751.9	1784.5	1828.5	1851.6	1840.0	1809.4	1792.1
25°	4669.1	3733.7	2022.1	1650.3	1686.7	1744.2	1778.7	1761.4	1740.4	1723.1	1717.4
27.5°	4667.1	3482.6	1807.5	1565.9	1631.1	1709.7	1698.2	1682.8	1692.5	1679.1	1663.7
30°	4676.8	3239.2	1631.1	1518.0	1590.8	1629.2	1642.6	1627.3	1638.7	1613.8	1621.5
32.5°	4626.9	3001.6	1516.1	1462.4	1543.0	1541.0	1585.1	1596.6	1569.8	1518.0	1525.7
35°	4648.0	2809.9	1418.3	1437.5	1489.3	1489.3	1523.8	1510.3	1439.5	1408.8	1416.4
37.5°	4793.7	2622.0	1370.4	1403.1	1437.5	1452.9	1441.3	1383.9	1366.6	1366.6	1370.4
40°	4931.6	2461.0	1341.7	1395.4	1389.6	1399.2	1314.9	1320.6	1320.6	1322.5	1312.9
42.5°	5054.3	2351.8	1318.7	1349.3	1359.0	1309.1	1257.3	1251.6	1265.0	1263.1	1255.5
45°	5098.4	2261.7	1286.1	1297.6	1305.3	1222.9	1197.9	1186.4	1201.7	1207.5	1215.2
47.5°	4929.8	2186.9	1249.7	1226.6	1211.4	1157.7	1125.1	1104.0	1123.2	1155.8	1163.5
50°	4713.2	2089.2	1192.2	1148.1	1115.5	1092.5	1069.5	1048.4	1061.8	1084.8	1079.1
52.5°	4393.1	1935.9	1119.4	1073.3	1017.7	1023.5	1002.4	991.0	998.6	998.6	992.8
55°	3936.9	1590.8	996.7	964.1	918.1	933.4	937.3	921.9	906.6	920.0	908.5
57.5°	2687.2	1123.2	889.3	889.3	843.4	864.4	862.6	826.1	789.7	793.5	785.8
60°	1554.4	895.1	820.3	812.7	764.8	782.0	785.8	760.9	705.3	709.2	701.5
62.5°	883.6	764.8	716.8	705.3	695.8	711.1	711.1	678.5	630.6	634.5	626.8
65°	751.4	709.2	640.2	638.2	634.5	638.2	623.0	588.4	546.2	529.0	531.0
67.5°	682.3	655.5	588.4	571.2	559.7	557.7	529.0	496.4	477.2	461.9	460.0
70°	598.0	576.9	527.1	504.1	492.6	465.7	437.0	415.9	389.1	381.4	389.1
72.5°	473.4	471.5	452.3	427.4	402.5	381.4	356.5	327.8	302.9	297.1	283.7
75°	327.8	331.6	335.4	331.6	310.5	283.7	254.9	231.9	201.2	184.0	180.2
77.5°	214.7	220.4	226.2	218.5	205.1	180.2	161.0	132.2	109.2	95.8	93.9
80°	157.1	164.8	168.7	162.9	147.6	128.4	107.3	84.3	67.1	55.6	55.6
82.5°	120.7	128.4	132.2	122.7	107.3	92.0	76.7	59.4	46.0	36.4	34.5
85°	42.2	40.2	47.9	49.8	59.4	55.6	46.0	34.5	26.9	19.2	17.2
87.5°	11.5	11.5	13.4	13.4	11.5	9.6	9.6	9.6	7.7	5.7	5.7
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)