

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: P529527

Luminaire Tested: **GALN-SA4D-722-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-722-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16782 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

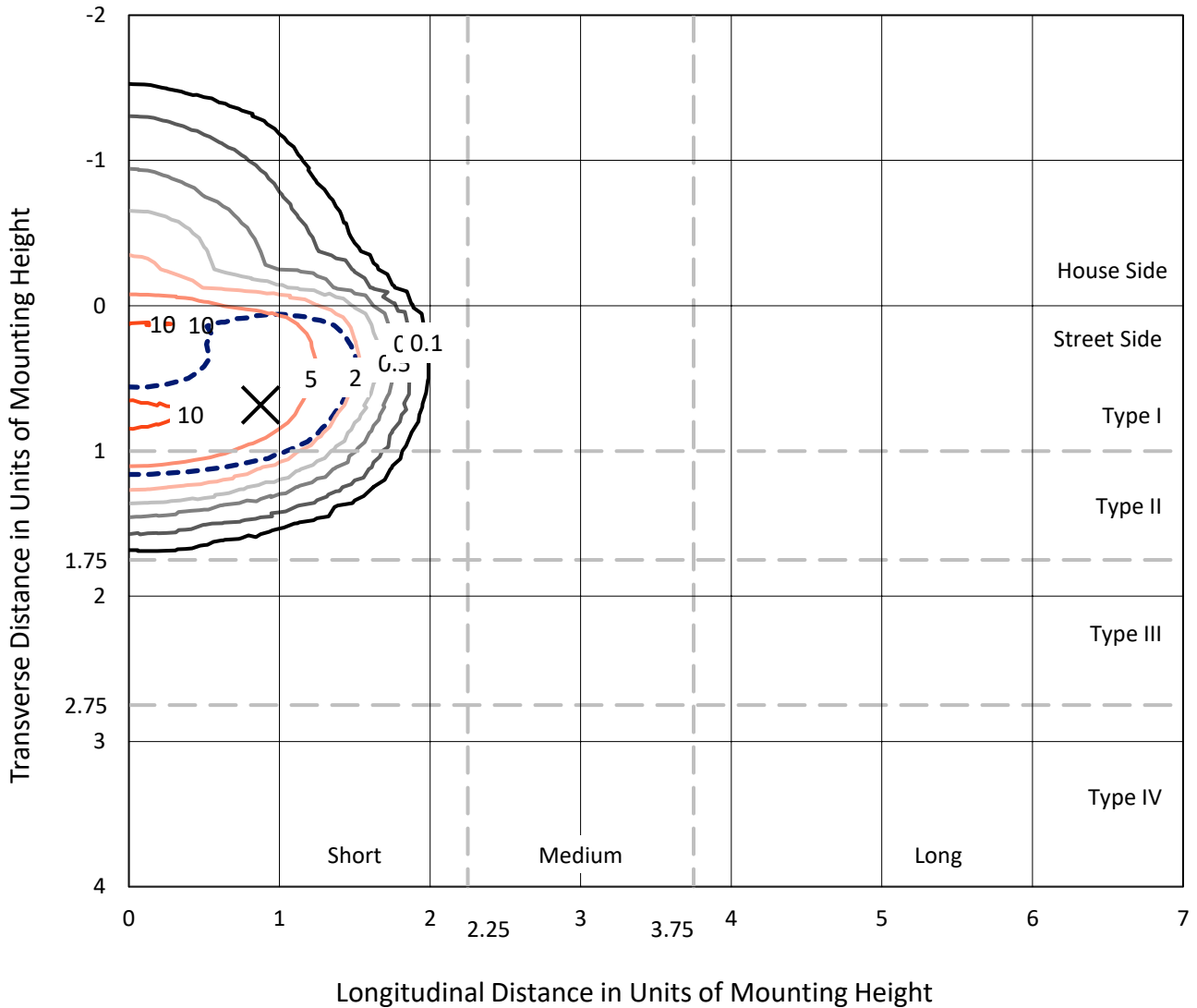
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

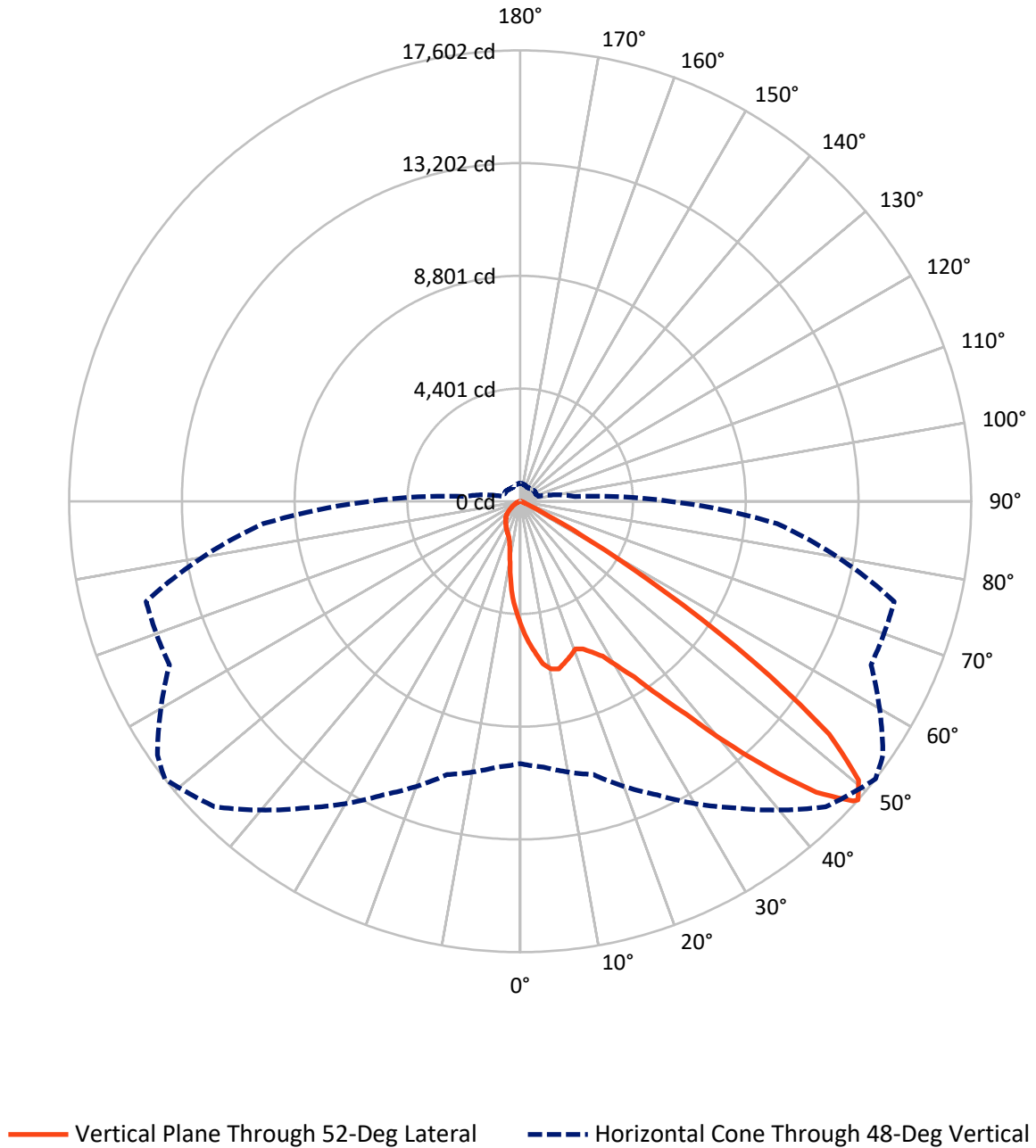
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2043.3	0.0	2043.3
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	14738.7	0.0	14738.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	16782.0	0.0	16782.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.6	2.6
10°-20°	1159.2	6.9
20°-30°	1979.3	11.8
30°-40°	3644.9	21.7
40°-50°	5660.5	33.7
50°-60°	3406.6	20.3
60°-70°	394.0	2.3
70°-80°	76.3	0.5
80°-90°	17.6	0.1
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°	16782.0	100.0
0°-180°	16782.0	100.0

Coefficient of Utilization



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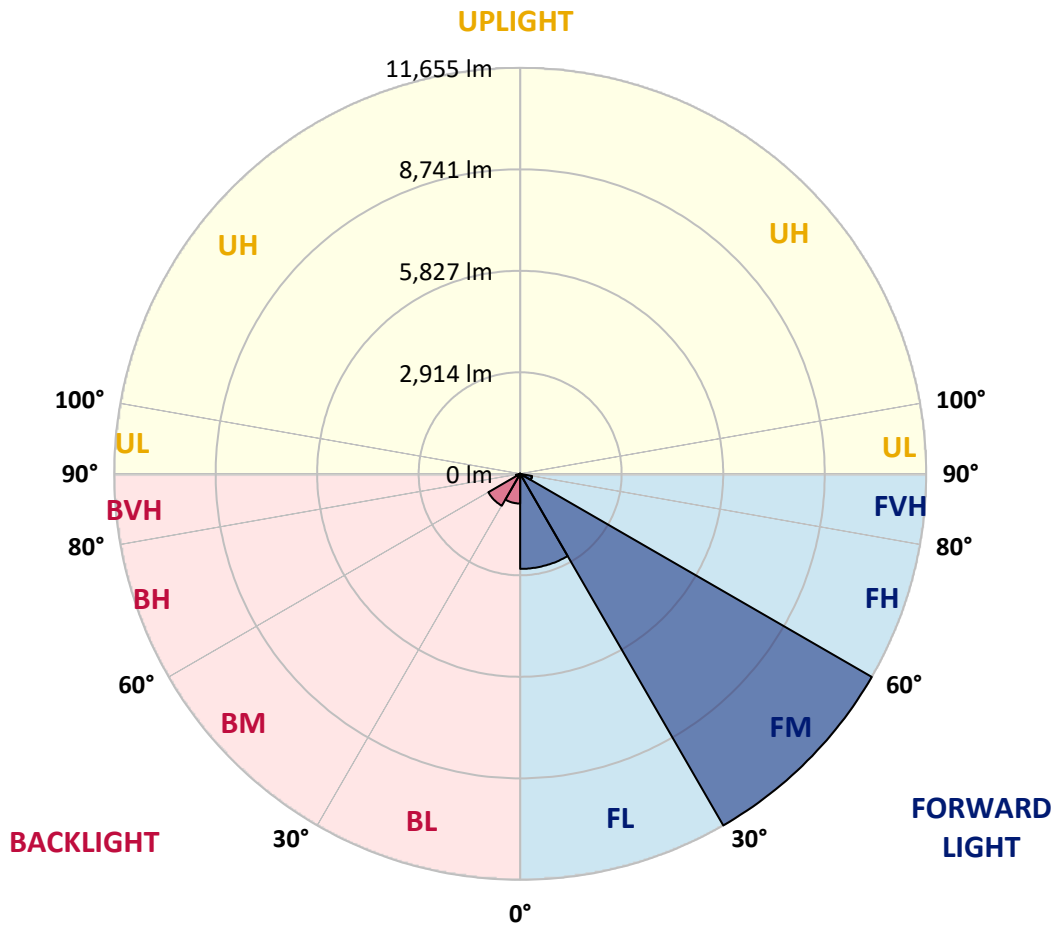
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2728.5	16.3			
FM (30°-60°)	11654.8	69.4			
FH (60°-80°)	347.0	2.1			G0/660
FVH (80°-90°)	8.4	0.0			G0/10
BL (0°-30°)	853.6	5.1	B2/1000		
BM (30°-60°)	1057.2	6.3	B2/2500		
BH (60°-80°)	123.3	0.7	B1/500		G1/500
BVH (80°-90°)	9.2	0.1			G0/10
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°	4846.4	4846.4	4846.4	4846.4	4846.4	4846.4	4846.4	4846.4	4846.4	4846.4	4846.4
2.5°	5873.9	5739.3	5751.5	5663.5	5612.1	5528.9	5416.4	5394.4	5272.0	5105.7	4936.9
5°	6402.3	6370.5	6412.1	6284.9	6289.8	6152.8	5888.5	5893.4	5612.1	5340.5	5078.8
7.5°	6436.5	6363.1	6404.7	6517.3	6583.3	6558.9	6409.6	6280.0	6013.3	5614.5	5232.9
10°	5763.8	5903.2	5947.3	6133.2	6397.4	6676.3	6659.2	6666.5	6443.9	5922.8	5365.0
12.5°	5360.1	5267.1	5416.4	5528.9	5927.7	6468.3	6715.4	6769.3	6786.4	6221.3	5497.1
15°	5176.6	5176.6	5201.1	5232.9	5521.6	6020.6	6524.6	6681.2	7050.6	6612.7	5705.1
17.5°	5291.6	5286.7	5321.0	5254.9	5362.6	5746.6	6348.5	6527.1	7346.6	6996.8	5869.0
20°	5641.5	5658.6	5636.6	5445.7	5453.1	5741.8	6152.8	6434.1	7547.2	7329.5	6086.7
22.5°	6128.3	6138.1	6013.3	5805.4	5744.2	5886.1	6265.3	6480.6	7708.7	7728.2	6152.8
25°	6691.0	6651.8	6627.4	6333.8	6147.9	6270.2	6519.7	6644.5	7809.0	8070.7	6341.1
27.5°	7471.4	7393.1	7243.9	6982.1	6845.1	6671.4	6850.0	7055.5	8095.2	8550.2	6546.6
30°	8623.6	8555.1	8264.0	7926.4	7566.8	7395.5	7451.8	7564.3	8611.4	9105.6	6818.2
32.5°	10358.2	10213.8	9793.0	9149.6	8660.3	8188.2	8173.5	8293.4	9073.8	9873.8	7141.1
35°	12268.8	12224.8	11605.8	10942.8	9996.1	9267.0	9279.3	9342.9	9959.4	10881.7	7564.3
37.5°	13538.5	13780.7	13386.8	12674.9	11879.8	10837.7	10573.4	10595.5	11175.3	12075.5	8327.6
40°	14519.5	14314.0	14360.5	14194.1	13651.0	12941.6	12356.9	12241.9	12582.0	13396.6	9086.0
42.5°	14091.4	14101.2	14387.4	14781.3	14915.8	14864.5	14267.5	14049.8	13785.6	14477.9	9807.7
45°	12882.9	13134.8	13506.7	14548.9	15463.8	16322.5	16205.1	15843.0	14617.4	15334.2	10223.6
47.5°	10955.1	10945.3	11554.5	12909.8	14942.7	16953.7	17487.0	17232.6	15207.0	15238.8	10138.0
48°	10243.2	10419.3	11048.0	12643.1	14612.5	16860.7	17602.0	17281.5	15106.7	15111.6	10064.6
50°	7571.7	7539.9	8322.7	10279.9	13051.7	15843.0	17117.6	17367.2	15104.2	14468.1	9550.8
52.5°	3999.9	4136.9	4706.9	6463.4	9227.9	12966.0	15099.3	15488.3	14570.9	13416.2	8812.0
55°	1700.3	1536.4	1974.3	2918.6	5191.3	8662.8	11077.4	11943.4	12320.2	11872.5	7708.7
57.5°	606.7	663.0	763.3	1098.4	2182.2	4741.2	6605.3	7278.1	8535.6	8711.7	5252.5
60°	389.0	396.3	428.1	504.0	819.6	1827.5	3133.9	3669.6	4239.7	4376.6	2451.3
62.5°	300.9	303.4	318.0	330.3	389.0	709.5	1176.7	1394.5	1448.3	1245.2	643.4
65°	252.0	254.4	259.3	259.3	276.4	332.7	411.0	452.6	440.4	435.5	364.5
67.5°	193.3	198.2	207.9	207.9	217.7	203.1	227.5	242.2	274.0	332.7	310.7
70°	151.7	154.1	161.5	166.4	166.4	146.8	163.9	178.6	200.6	247.1	244.6
72.5°	117.4	122.3	127.2	127.2	119.9	100.3	117.4	129.7	144.3	171.2	166.4
75°	90.5	90.5	93.0	75.8	58.7	51.4	70.9	85.6	107.6	112.5	93.0
77.5°	24.5	26.9	24.5	22.0	24.5	36.7	46.5	53.8	68.5	68.5	61.2
80°	0.0	2.4	7.3	14.7	24.5	34.2	41.6	46.5	53.8	58.7	56.3
82.5°	0.0	2.4	7.3	14.7	22.0	26.9	36.7	39.1	44.0	51.4	51.4
85°	0.0	2.4	4.9	9.8	14.7	17.1	17.1	14.7	14.7	12.2	9.8
87.5°	0.0	0.0	2.4	4.9	4.9	7.3	7.3	7.3	7.3	7.3	7.3
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°	4846.4	4846.4	4846.4	4846.4	4846.4	4846.4	4846.4	4846.4	4846.4	4846.4	4846.4
2.5°	4870.8	4795.0	4680.0	4499.0	4325.3	4212.7	4105.1	3985.2	3919.2	3914.3	3877.6
5°	4929.5	4758.3	4484.3	4173.6	3840.9	3554.7	3266.0	3077.6	2908.8	2815.8	2798.7
7.5°	4961.3	4738.7	4295.9	3774.8	3207.3	2740.0	2417.1	2179.8	2086.8	2018.3	2015.9
10°	5027.4	4704.5	4014.6	3246.4	2544.3	2072.1	1849.5	1741.9	1690.5	1670.9	1641.5
12.5°	5076.3	4640.9	3725.9	2703.3	2011.0	1717.4	1619.5	1595.1	1597.5	1607.3	1595.1
15°	5144.8	4584.6	3336.9	2218.9	1688.0	1546.1	1546.1	1551.0	1585.3	1590.2	1587.7
17.5°	5139.9	4474.5	2935.7	1827.5	1492.3	1472.7	1480.1	1526.6	1548.6	1555.9	1538.8
20°	5198.6	4371.8	2522.3	1560.8	1382.2	1411.6	1460.5	1472.7	1499.7	1504.5	1485.0
22.5°	5181.5	4114.9	2138.2	1350.4	1299.1	1355.3	1404.2	1418.9	1411.6	1396.9	1394.5
25°	5149.7	3894.7	1785.9	1211.0	1237.9	1299.1	1345.5	1318.6	1303.9	1306.4	1308.8
27.5°	5093.5	3615.8	1494.8	1113.1	1154.7	1245.2	1242.8	1233.0	1247.7	1235.4	1247.7
30°	5083.7	3336.9	1255.0	1025.1	1093.6	1159.6	1164.5	1181.6	1198.7	1176.7	1198.7
32.5°	5098.3	3031.1	1083.8	971.2	1056.9	1059.3	1113.1	1130.2	1118.0	1069.1	1074.0
35°	5210.9	2796.3	959.0	941.9	998.1	1000.6	1052.0	1029.9	976.1	946.8	963.9
37.5°	5448.2	2600.5	900.3	915.0	919.9	951.7	954.1	910.1	915.0	912.5	922.3
40°	5751.5	2451.3	858.7	890.5	885.6	907.6	819.6	844.0	866.0	873.4	878.3
42.5°	5959.5	2343.7	831.8	851.4	841.6	802.4	753.5	778.0	795.1	822.0	826.9
45°	6052.4	2258.0	800.0	782.9	782.9	711.9	692.3	697.2	736.4	765.7	760.8
47.5°	5900.8	2174.9	743.7	692.3	709.5	650.7	628.7	628.7	670.3	707.0	699.7
48°	5842.1	2140.6	746.2	672.8	685.0	641.0	618.9	614.1	660.5	694.8	694.8
50°	5550.9	2013.4	682.6	618.9	594.5	589.6	574.9	579.8	609.2	641.0	641.0
52.5°	4983.4	1739.4	577.4	530.9	486.8	516.2	523.5	513.7	528.4	557.8	555.3
55°	4158.9	1335.7	462.4	440.4	406.1	437.9	452.6	440.4	425.7	447.7	447.7
57.5°	2664.2	719.2	369.4	374.3	340.1	371.9	384.1	354.7	327.8	344.9	342.5
60°	1201.2	430.6	303.4	296.0	274.0	310.7	330.3	296.0	259.3	271.6	283.8
62.5°	450.1	305.8	230.0	225.1	220.2	254.4	264.2	237.3	200.6	207.9	210.4
65°	330.3	269.1	183.5	166.4	176.1	200.6	195.7	168.8	144.3	144.3	149.2
67.5°	281.3	234.9	149.2	129.7	129.7	132.1	122.3	107.6	100.3	105.2	110.1
70°	220.2	185.9	117.4	100.3	90.5	80.7	70.9	68.5	61.2	68.5	66.1
72.5°	141.9	124.8	90.5	75.8	68.5	56.3	46.5	44.0	36.7	34.2	34.2
75°	75.8	75.8	70.9	61.2	53.8	44.0	36.7	29.4	19.6	14.7	14.7
77.5°	53.8	58.7	63.6	58.7	48.9	36.7	29.4	19.6	9.8	4.9	4.9
80°	51.4	58.7	63.6	56.3	48.9	36.7	26.9	14.7	7.3	2.4	2.4
82.5°	46.5	53.8	58.7	51.4	44.0	31.8	24.5	14.7	7.3	2.4	2.4
85°	9.8	12.2	14.7	14.7	17.1	22.0	17.1	12.2	4.9	2.4	2.4
87.5°	7.3	7.3	7.3	7.3	7.3	7.3	4.9	4.9	2.4	2.4	2.4
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)