

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: P529513

Luminaire Tested: **GALN-SA4C-830-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529513
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-830-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13037 lumens
Efficiency: N/A
Efficacy: 61.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

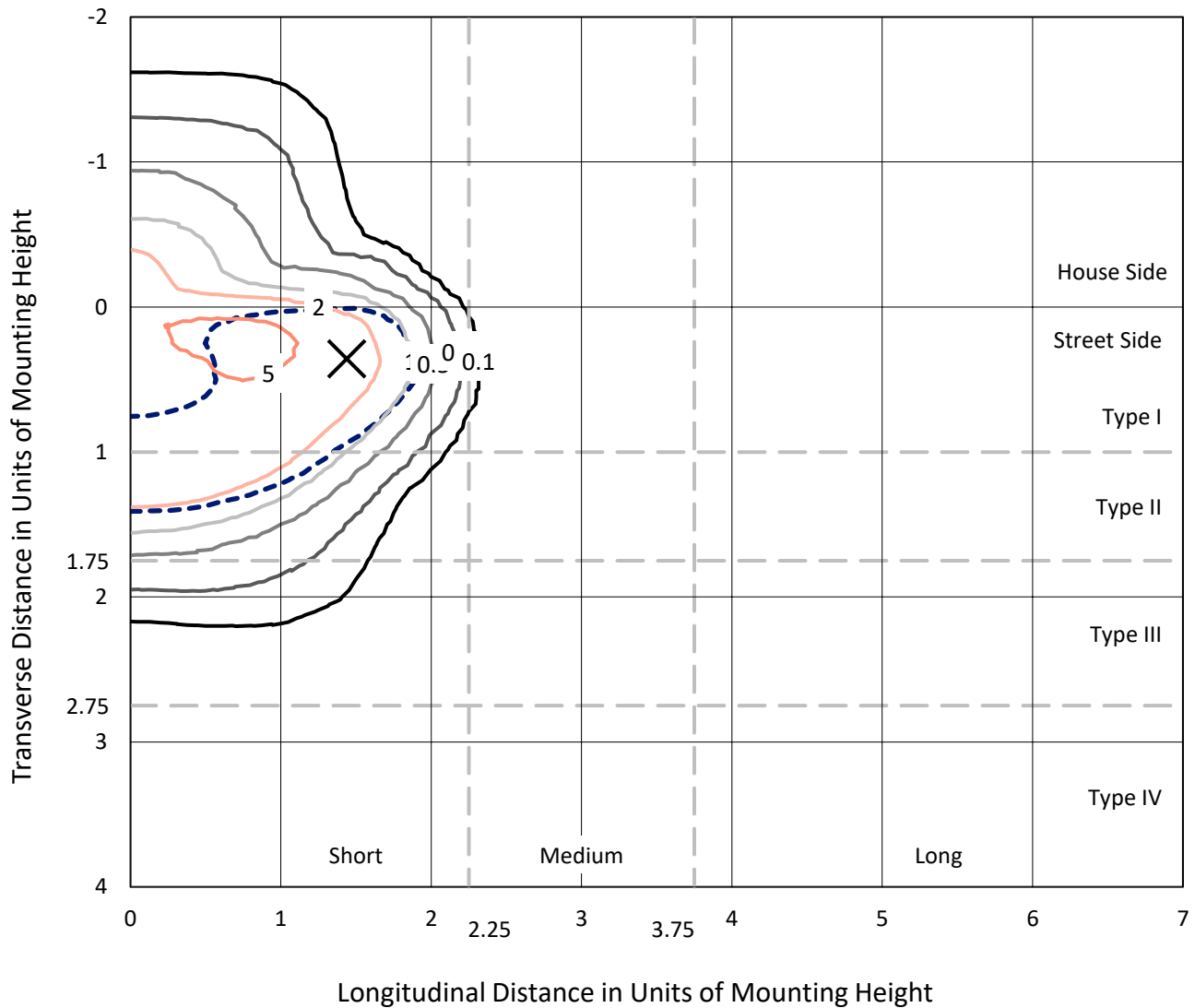
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

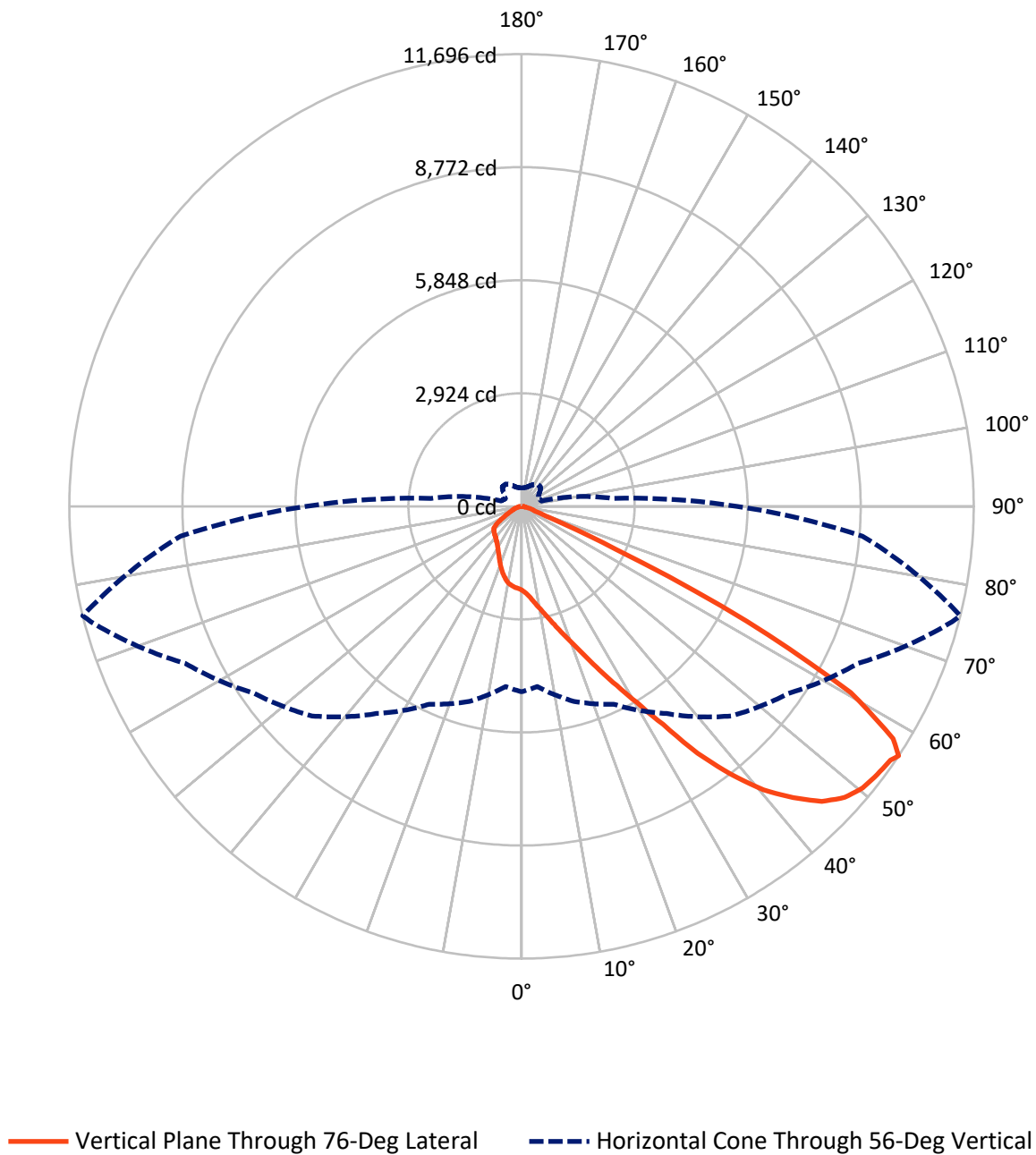
✕ Max cd
 - - - 1/2 Max cd



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2048.0	0.0	2048.0
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	10989.0	0.0	10989.0
	% Fixture	84.3	0.0	84.3
Total	Lumens	13037.0	0.0	13037.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.6	1.7
10°-20°	702.3	5.4
20°-30°	1273.4	9.8
30°-40°	2196.1	16.8
40°-50°	3567.6	27.4
50°-60°	3760.4	28.8
60°-70°	1149.0	8.8
70°-80°	147.3	1.1
80°-90°	22.4	0.2
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°	13037.0	100.0
0°-180°	13037.0	100.0

Coefficient of Utilization



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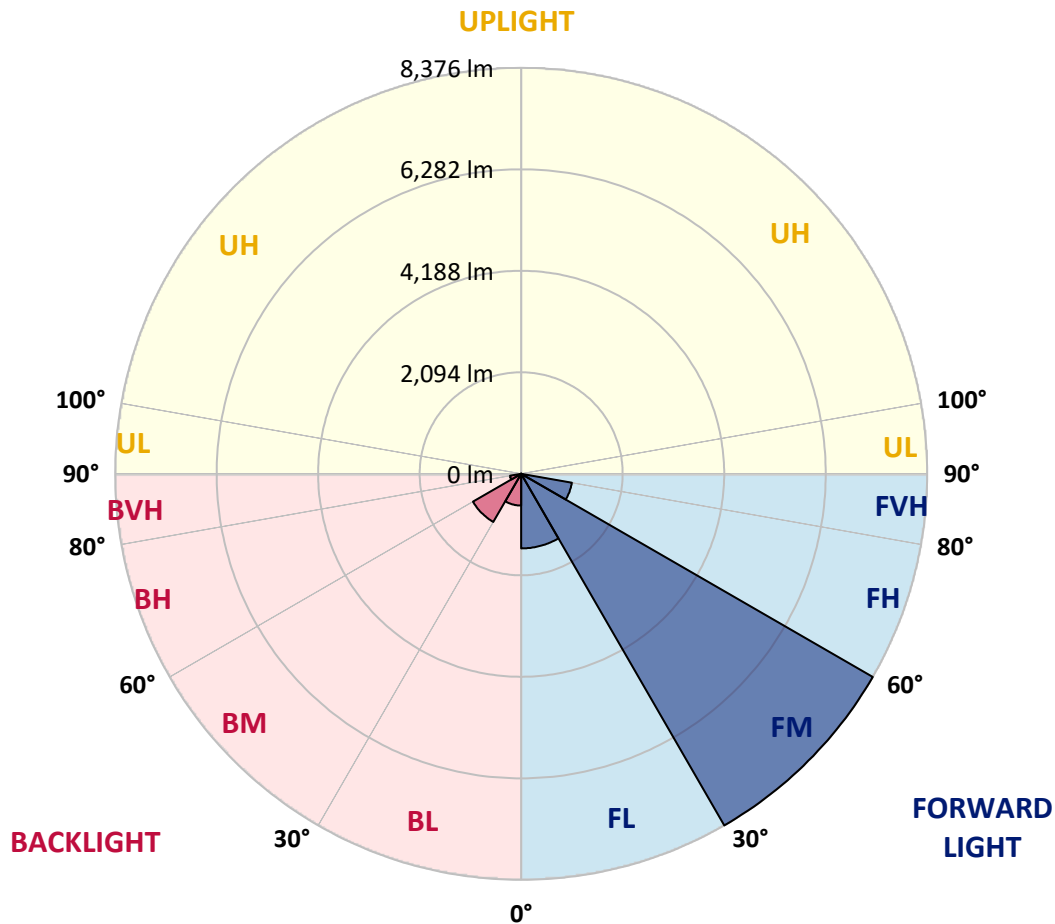
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1539.1	11.8			
FM	(30°-60°)	8376.3	64.2			
FH	(60°-80°)	1062.6	8.2			G1/1800
FVH	(80°-90°)	11.0	0.1			G1/100
BL	(0°-30°)	655.2	5.0	B2/1000		
BM	(30°-60°)	1147.8	8.8	B2/2500		
BH	(60°-80°)	233.6	1.8	B1/500		G1/500
BVH	(80°-90°)	11.4	0.1			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°	55°	65°	75°	76°	85°
0°	2170.0	2170.0	2170.0	2170.0	2170.0	2170.0	2170.0	2170.0	2170.0	2170.0	2170.0
2.5°	2499.3	2441.6	2444.0	2439.2	2432.0	2405.5	2326.2	2314.2	2261.3	2246.9	2198.9
5°	2799.6	2749.2	2778.0	2734.8	2693.9	2669.9	2540.1	2480.0	2395.9	2364.7	2297.4
7.5°	2987.1	2963.1	2953.4	2955.9	2917.4	2857.3	2799.6	2667.5	2554.5	2530.5	2388.7
10°	3078.4	3064.0	3078.4	3071.2	3088.0	3095.2	2994.3	2915.0	2749.2	2708.3	2487.2
12.5°	3100.0	3128.9	3140.9	3172.1	3213.0	3282.7	3275.5	3167.3	2946.2	2919.8	2638.6
15°	3152.9	3176.9	3164.9	3215.4	3292.3	3410.0	3472.5	3455.7	3217.8	3169.7	2814.1
17.5°	3201.0	3157.7	3198.6	3299.5	3376.4	3556.6	3708.0	3777.7	3513.4	3458.1	2975.1
20°	3265.9	3253.8	3246.6	3297.1	3434.1	3674.4	3974.8	4102.1	3845.0	3787.3	3205.8
22.5°	3462.9	3465.3	3460.5	3386.0	3484.5	3756.1	4207.9	4522.7	4241.5	4193.5	3467.7
25°	3722.5	3691.2	3667.2	3607.1	3595.1	3830.6	4443.4	5037.0	4717.3	4683.7	3751.3
27.5°	3996.4	3996.4	3924.3	3869.0	3792.1	4015.6	4659.7	5536.8	5291.7	5246.0	3998.8
30°	4294.4	4311.2	4301.6	4183.9	4135.8	4217.5	4880.8	6176.0	5950.2	5892.5	4407.3
32.5°	4734.2	4698.1	4739.0	4640.4	4498.7	4570.8	5229.2	6748.0	6805.7	6724.0	4943.2
35°	5315.7	5294.1	5267.7	5106.7	4938.4	4996.1	5721.9	7452.1	7879.9	7839.0	5483.9
37.5°	5837.2	5825.2	5803.6	5693.0	5498.4	5568.1	6281.8	8185.1	8927.6	8793.1	6248.1
40°	6385.1	6450.0	6380.3	6281.8	6104.0	6257.8	6940.2	8620.0	9809.6	9646.2	6832.1
42.5°	7127.7	7077.2	7108.5	6928.2	6832.1	7000.3	7601.1	9055.0	10494.5	10299.8	7452.1
45°	7918.3	7920.7	7836.6	7778.9	7529.0	7711.7	8007.2	9295.3	11040.0	10888.6	7920.7
47.5°	8425.4	8423.0	8514.3	8605.6	8348.5	8168.2	8283.6	9523.6	11321.2	11251.5	8091.3
50°	8346.1	8370.1	8487.9	8829.1	8963.7	8721.0	8543.1	9456.3	11448.5	11441.3	8237.9
52.5°	7259.9	7339.2	7536.2	8028.9	8706.5	9006.9	8814.7	9581.3	11511.0	11523.0	8456.6
55°	5527.2	5570.5	5945.3	6543.7	7293.5	8322.0	8706.5	9679.8	11559.1	11580.7	8721.0
56°	4794.2	4678.9	5219.6	5645.0	6541.3	7666.0	8432.6	9602.9	11530.2	11696.0	8853.1
57.5°	3619.1	3542.2	3979.6	4510.7	5373.4	6560.6	7581.9	9240.0	11335.6	11333.2	8663.3
60°	2201.3	2124.4	2460.8	2773.2	3256.2	4039.7	5123.5	7358.4	9583.7	9785.6	7014.7
62.5°	1309.7	1357.8	1689.4	1879.2	2035.5	2117.2	2650.7	4373.7	6394.7	6538.9	4352.1
65°	872.3	889.2	1139.1	1451.5	1521.2	1211.2	1079.0	1771.1	2773.2	2684.3	1795.1
67.5°	538.3	576.8	764.2	1091.0	1208.8	884.4	511.9	660.9	764.2	764.2	519.1
70°	326.8	346.1	509.5	742.6	829.1	569.5	372.5	372.5	367.7	360.5	310.0
72.5°	156.2	168.2	259.5	382.1	389.3	300.4	288.4	314.8	307.6	305.2	257.1
75°	67.3	72.1	91.3	120.2	137.0	127.4	175.4	225.9	233.1	225.9	185.0
77.5°	21.6	24.0	33.6	43.3	45.7	55.3	74.5	93.7	108.1	100.9	91.3
80°	2.4	4.8	9.6	21.6	33.6	43.3	55.3	62.5	69.7	69.7	64.9
82.5°	2.4	2.4	9.6	19.2	31.2	40.9	52.9	60.1	69.7	72.1	67.3
85°	0.0	2.4	7.2	16.8	26.4	26.4	24.0	24.0	16.8	16.8	16.8
87.5°	0.0	0.0	2.4	2.4	2.4	4.8	4.8	4.8	4.8	4.8	4.8
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°	2170.0	2170.0	2170.0	2170.0	2170.0	2170.0	2170.0	2170.0	2170.0	2170.0	2170.0
2.5°	2189.3	2184.4	2119.6	2078.7	2057.1	2013.8	1987.4	1968.2	1953.7	1936.9	1939.3
5°	2218.1	2201.3	2093.1	2018.6	1929.7	1881.7	1840.8	1807.2	1785.5	1780.7	1771.1
7.5°	2299.8	2210.9	2047.5	1912.9	1799.9	1751.9	1715.8	1694.2	1703.8	1682.2	1699.0
10°	2362.3	2230.1	1992.2	1797.5	1684.6	1648.5	1629.3	1646.1	1670.2	1660.6	1648.5
12.5°	2439.2	2249.3	1903.3	1687.0	1581.3	1554.8	1588.5	1619.7	1667.8	1687.0	1663.0
15°	2525.7	2271.0	1790.3	1559.6	1492.3	1514.0	1571.6	1626.9	1675.0	1699.0	1713.4
17.5°	2631.4	2263.8	1679.8	1458.7	1408.2	1470.7	1540.4	1590.9	1663.0	1699.0	1689.4
20°	2730.0	2239.7	1557.2	1357.8	1360.2	1417.8	1475.5	1557.2	1595.7	1643.7	1626.9
22.5°	2823.7	2196.5	1429.9	1288.1	1288.1	1377.0	1405.8	1458.7	1492.3	1516.4	1514.0
25°	2955.9	2114.8	1324.1	1220.8	1249.6	1307.3	1331.3	1348.2	1333.7	1353.0	1355.4
27.5°	3049.6	2030.6	1237.6	1160.7	1213.6	1256.8	1249.6	1240.0	1206.4	1179.9	1196.8
30°	3150.5	1932.1	1163.1	1119.9	1148.7	1187.1	1158.3	1129.5	1076.6	1033.3	1035.7
32.5°	3294.7	1886.5	1098.2	1071.8	1110.2	1115.1	1083.8	1040.6	987.7	946.8	944.4
35°	3563.8	1857.6	1043.0	1040.6	1047.8	1050.2	1018.9	966.1	944.4	910.8	922.8
37.5°	3833.0	1843.2	1004.5	994.9	992.5	994.9	958.8	908.4	949.2	946.8	951.6
40°	4176.6	1908.1	949.2	937.2	939.6	939.6	894.0	879.5	951.6	958.8	961.3
42.5°	4525.1	1989.8	913.2	874.7	884.4	884.4	860.3	843.5	894.0	845.9	838.7
45°	4827.9	2109.9	874.7	812.3	836.3	848.3	841.1	812.3	781.0	699.3	699.3
47.5°	4926.4	2215.7	829.1	752.2	771.4	824.3	802.6	742.6	687.3	620.0	615.2
50°	5099.4	2331.0	793.0	682.5	723.3	788.2	766.6	706.5	644.0	596.0	598.4
52.5°	5277.3	2463.2	725.7	600.8	651.2	759.4	759.4	692.1	596.0	562.3	557.5
55°	5544.0	2458.4	605.6	492.6	581.6	716.1	728.1	620.0	533.5	507.1	507.1
56°	5582.5	2347.9	545.5	461.4	550.3	704.1	706.5	600.8	509.5	480.6	480.6
57.5°	5294.1	2119.6	478.2	423.0	511.9	682.5	684.9	584.0	490.2	449.4	444.6
60°	4073.3	1434.7	398.9	377.3	463.8	615.2	627.2	531.1	430.2	398.9	396.5
62.5°	2299.8	795.4	350.9	341.2	398.9	523.9	559.9	463.8	365.3	348.5	353.3
65°	1050.2	437.4	295.6	276.4	322.0	403.7	451.8	382.1	300.4	281.2	281.2
67.5°	384.5	298.0	252.3	218.7	225.9	261.9	293.2	247.5	199.5	170.6	177.8
70°	274.0	249.9	221.1	189.8	175.4	170.6	168.2	139.4	98.5	76.9	81.7
72.5°	221.1	206.7	185.0	161.0	137.0	115.4	98.5	72.1	45.7	31.2	28.8
75°	158.6	151.4	134.6	115.4	96.1	81.7	67.3	45.7	24.0	12.0	12.0
77.5°	81.7	81.7	79.3	72.1	60.1	48.1	38.5	26.4	14.4	4.8	4.8
80°	62.5	67.3	69.7	62.5	55.3	43.3	31.2	19.2	9.6	2.4	2.4
82.5°	60.1	69.7	74.5	64.9	55.3	40.9	31.2	19.2	9.6	2.4	2.4
85°	14.4	14.4	21.6	24.0	31.2	33.6	26.4	16.8	7.2	2.4	2.4
87.5°	4.8	4.8	4.8	4.8	4.8	4.8	2.4	2.4	2.4	2.4	0.0
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)