

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: P527630

Luminaire Tested: **GALN-SA2C-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527630
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-SA2C-830-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA 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: 10138 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 108
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



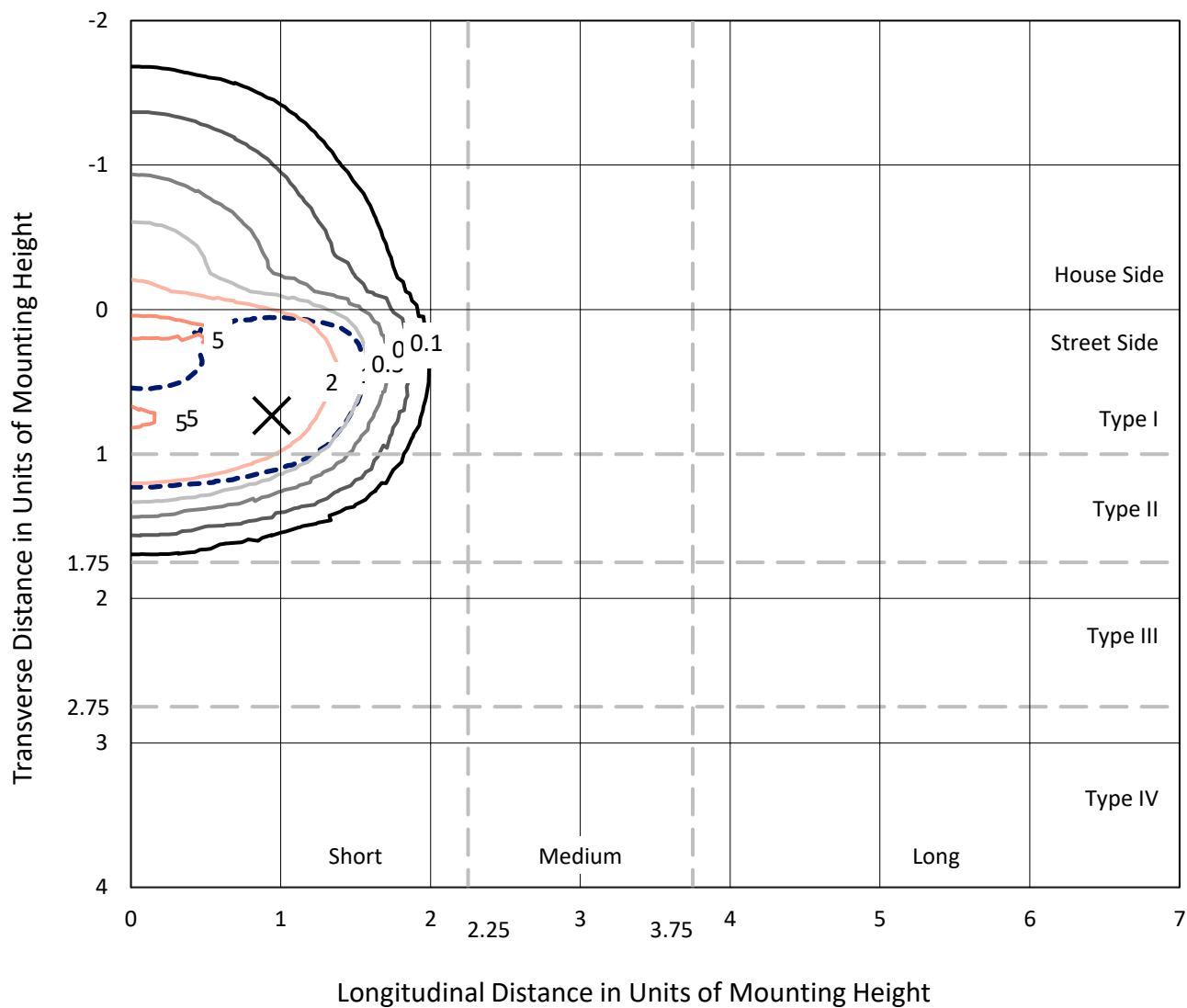
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

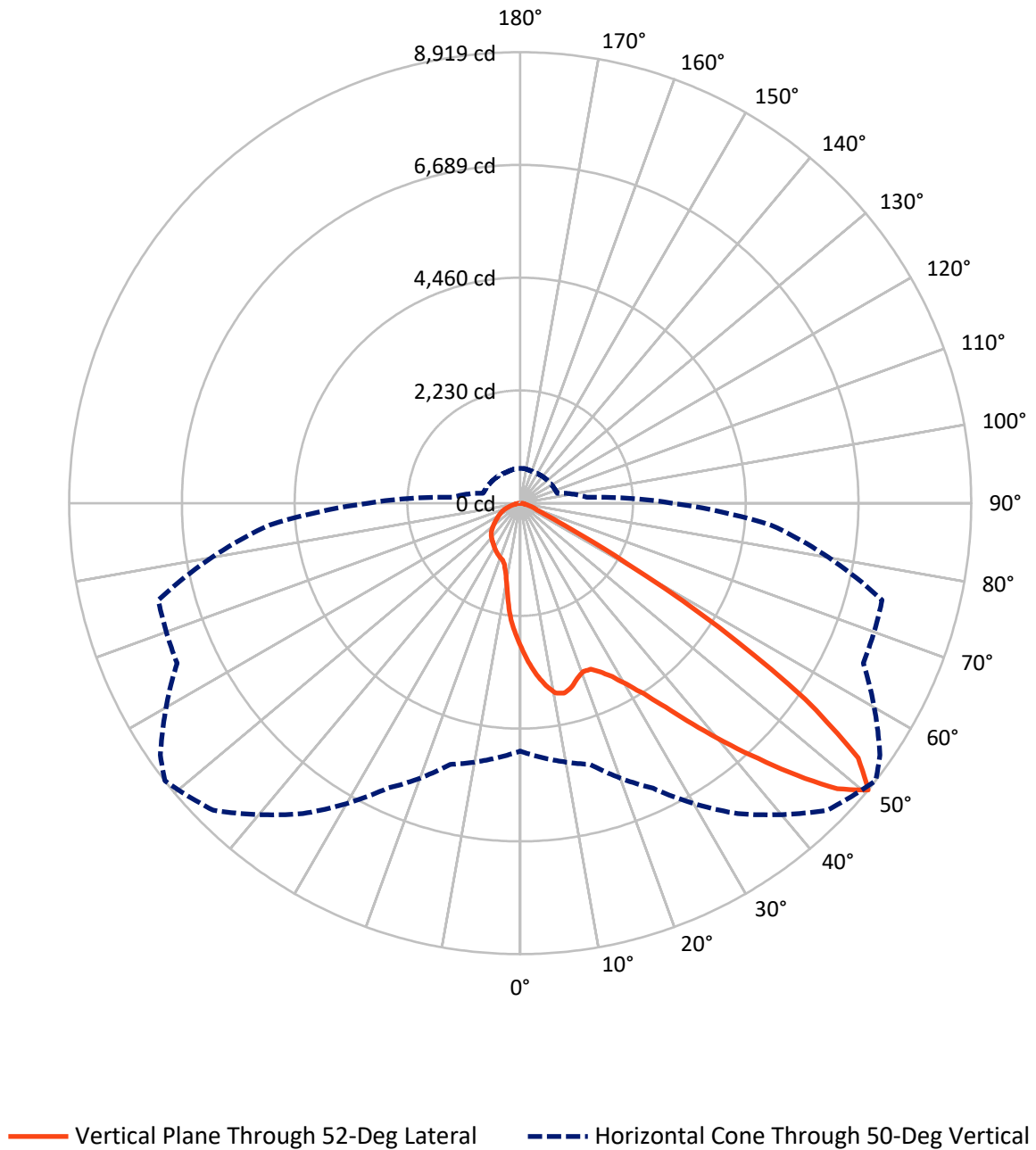
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	1905.7	0.0	1905.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	8232.3	0.0	8232.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	10138.0	0.0	10138.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.4	2.6
10°-20°	706.0	7.0
20°-30°	1189.2	11.7
30°-40°	1995.5	19.7
40°-50°	3052.7	30.1
50°-60°	2225.6	22.0
60°-70°	495.3	4.9
70°-80°	178.7	1.8
80°-90°	31.6	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°	10138.0	100.0
0°-180°	10138.0	100.0

Coefficient of Utilization



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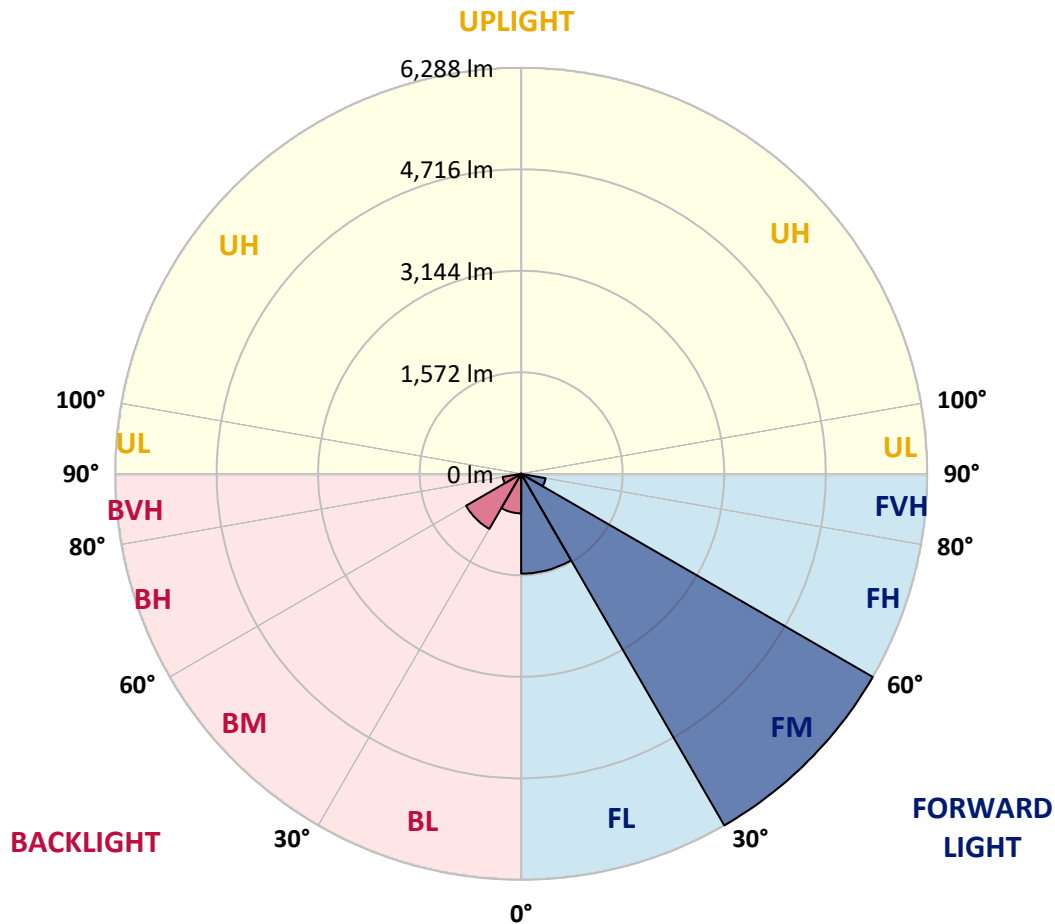
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1546.4	15.3			
FM	(30°-60°)	6288.1	62.0			
FH	(60°-80°)	383.6	3.8			G0/660
FVH	(80°-90°)	14.2	0.1			G1/100
BL	(0°-30°)	612.1	6.0	B2/1000		
BM	(30°-60°)	985.8	9.7	B1/1000		
BH	(60°-80°)	290.3	2.9	B1/500		G1/500
BVH	(80°-90°)	17.5	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°	2857.7	2857.7	2857.7	2857.7	2857.7	2857.7	2857.7	2857.7	2857.7	2857.7	2857.7
2.5°	3364.8	3300.0	3307.3	3260.9	3210.8	3196.2	3144.9	3096.0	3059.3	2981.1	2909.0
5°	3677.5	3658.0	3628.7	3592.0	3554.1	3461.3	3408.8	3347.7	3213.3	3092.3	2972.6
7.5°	3722.8	3719.1	3735.0	3735.0	3748.4	3713.0	3638.4	3595.7	3452.7	3256.0	3033.7
10°	3405.1	3416.1	3493.1	3593.2	3732.5	3829.0	3816.8	3805.8	3649.4	3380.7	3105.8
12.5°	3152.2	3127.7	3173.0	3258.5	3467.4	3700.8	3858.4	3859.6	3819.3	3579.8	3158.3
15°	3009.2	3026.3	3038.6	3078.9	3236.5	3506.5	3783.8	3865.7	4042.9	3720.3	3241.4
17.5°	3100.9	3043.4	3041.0	3050.8	3131.4	3334.2	3645.8	3786.3	4165.0	3901.1	3344.0
20°	3220.6	3219.4	3185.2	3173.0	3171.7	3352.6	3555.4	3746.0	4229.8	4135.7	3447.9
22.5°	3430.7	3430.7	3374.5	3347.7	3290.2	3438.1	3567.6	3697.1	4337.3	4297.0	3497.9
25°	3782.6	3725.2	3628.7	3562.7	3529.7	3582.2	3697.1	3813.2	4431.4	4468.0	3601.8
27.5°	4107.6	4017.2	3969.6	3855.9	3811.9	3781.4	3886.5	4003.8	4541.3	4734.4	3658.0
30°	4476.6	4460.7	4375.2	4228.6	4119.8	4063.6	4160.1	4276.2	4742.9	5006.8	3787.5
32.5°	5136.3	4992.2	4876.1	4696.5	4519.3	4399.6	4494.9	4571.9	5077.7	5291.5	3929.2
35°	5848.6	5802.2	5601.8	5278.1	5006.8	4899.3	4955.5	5012.9	5467.4	5726.5	4167.5
37.5°	6548.7	6485.2	6320.2	6047.8	5717.9	5499.2	5539.5	5606.7	5904.8	6312.9	4458.3
40°	7052.1	6973.9	6890.8	6850.5	6523.1	6223.7	6200.5	6217.6	6496.2	6862.7	4780.8
42.5°	7088.7	7185.3	7210.9	7373.4	7296.4	7050.9	6907.9	6911.6	7060.6	7406.4	5107.0
45°	7011.8	6922.6	7112.0	7555.5	7809.6	7924.4	7683.7	7653.2	7410.1	7721.6	5269.5
47.5°	6204.2	6228.6	6548.7	7250.0	7984.3	8497.5	8441.3	8339.8	7597.0	7710.6	5243.9
50°	4904.2	5052.0	5348.9	6222.5	7495.6	8587.9	8919.0	8684.4	7485.8	7407.6	4982.4
52.5°	3265.8	3326.9	3522.4	4650.1	6027.0	7676.4	8369.2	8422.9	7383.2	7010.6	4651.3
55°	1453.9	1449.0	1723.9	2428.9	3781.4	5841.3	6838.3	7165.7	6988.6	6606.1	4328.8
57.5°	615.8	636.5	748.9	1049.5	1859.5	3524.8	4633.0	4920.1	5374.6	5424.7	3320.8
60°	416.6	419.1	449.6	525.4	778.3	1655.5	2430.1	2774.7	3099.6	3077.7	1761.8
62.5°	327.4	336.0	359.2	389.7	461.8	751.4	1087.4	1279.2	1300.0	1093.5	668.3
65°	279.8	281.0	304.2	329.9	361.6	437.4	524.1	533.9	540.0	520.5	491.2
67.5°	230.9	233.4	251.7	281.0	310.3	334.8	359.2	371.4	399.5	454.5	447.2
70°	183.3	186.9	202.8	227.3	254.1	268.8	299.3	310.3	336.0	378.8	395.9
72.5°	139.3	140.5	153.9	171.0	195.5	210.1	235.8	248.0	265.1	301.8	317.7
75°	100.2	103.9	113.6	122.2	125.8	135.6	160.1	173.5	197.9	213.8	215.0
77.5°	52.5	55.0	57.4	57.4	69.6	88.0	103.9	111.2	128.3	140.5	134.4
80°	20.8	22.0	28.1	37.9	48.9	63.5	74.5	78.2	92.9	100.2	103.9
82.5°	12.2	13.4	18.3	26.9	35.4	45.2	53.8	57.4	67.2	75.8	78.2
85°	6.1	7.3	11.0	17.1	23.2	28.1	26.9	25.7	25.7	24.4	25.7
87.5°	2.4	2.4	3.7	3.7	3.7	4.9	6.1	6.1	6.1	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°	2857.7	2857.7	2857.7	2857.7	2857.7	2857.7	2857.7	2857.7	2857.7	2857.7	2857.7
2.5°	2861.4	2812.5	2767.3	2684.2	2593.8	2568.2	2463.1	2425.2	2398.3	2366.6	2356.8
5°	2876.1	2811.3	2665.9	2498.5	2365.4	2194.3	2081.9	1961.0	1873.0	1851.0	1844.9
7.5°	2906.6	2795.4	2545.0	2292.1	2019.6	1787.5	1610.3	1515.0	1430.7	1425.8	1417.3
10°	2940.8	2747.8	2413.0	2015.9	1667.7	1452.7	1346.4	1304.9	1284.1	1279.2	1276.8
12.5°	2968.9	2738.0	2265.2	1747.1	1418.5	1289.0	1257.2	1253.5	1262.1	1264.5	1269.4
15°	2981.1	2698.9	2086.8	1506.4	1263.3	1215.7	1229.1	1243.8	1249.9	1265.8	1253.5
17.5°	3004.3	2648.8	1866.9	1315.9	1176.6	1185.1	1208.3	1225.4	1235.2	1246.2	1230.3
20°	3016.6	2603.6	1660.4	1202.2	1146.0	1161.9	1193.7	1207.1	1219.3	1224.2	1205.9
22.5°	3005.6	2510.7	1478.3	1110.6	1116.7	1137.5	1165.6	1180.2	1172.9	1153.4	1142.4
25°	2976.2	2380.0	1289.0	1051.9	1075.2	1111.8	1133.8	1122.8	1109.4	1098.4	1094.7
27.5°	2975.0	2220.0	1152.1	998.2	1039.7	1089.8	1082.5	1072.7	1078.8	1070.3	1060.5
30°	2981.1	2064.8	1039.7	967.6	1014.1	1038.5	1047.1	1037.3	1044.6	1028.7	1033.6
32.5°	2949.4	1913.3	966.4	932.2	983.5	982.3	1010.4	1017.7	1000.6	967.6	972.5
35°	2962.8	1791.1	904.1	916.3	949.3	949.3	971.3	962.8	917.6	898.0	902.9
37.5°	3055.7	1671.4	873.6	894.3	916.3	926.1	918.8	882.1	871.1	871.1	873.6
40°	3143.6	1568.8	855.2	889.5	885.8	891.9	838.1	841.8	841.8	843.0	836.9
42.5°	3221.8	1499.1	840.6	860.1	866.2	834.5	801.5	797.8	806.4	805.2	800.3
45°	3249.9	1441.7	819.8	827.1	832.0	779.5	763.6	756.3	766.1	769.7	774.6
47.5°	3142.4	1394.0	796.6	781.9	772.2	738.0	717.2	703.7	716.0	736.7	741.6
50°	3004.3	1331.7	759.9	731.8	711.1	696.4	681.8	668.3	676.9	691.5	687.9
52.5°	2800.3	1234.0	713.5	684.2	648.8	652.4	639.0	631.7	636.5	636.5	632.9
55°	2509.5	1014.1	635.3	614.6	585.2	595.0	597.4	587.7	577.9	586.5	579.1
57.5°	1712.9	716.0	566.9	566.9	537.6	551.0	549.8	526.6	503.4	505.8	500.9
60°	990.9	570.6	522.9	518.0	487.5	498.5	500.9	485.0	449.6	452.1	447.2
62.5°	563.2	487.5	456.9	449.6	443.5	453.3	453.3	432.5	402.0	404.4	399.5
65°	478.9	452.1	408.1	406.9	404.4	406.9	397.1	375.1	348.2	337.2	338.4
67.5°	435.0	417.8	375.1	364.1	356.8	355.5	337.2	316.4	304.2	294.4	293.2
70°	381.2	367.8	336.0	321.3	314.0	296.9	278.6	265.1	248.0	243.1	248.0
72.5°	301.8	300.6	288.3	272.5	256.6	243.1	227.3	208.9	193.0	189.4	180.8
75°	208.9	211.4	213.8	211.4	197.9	180.8	162.5	147.8	128.3	117.3	114.8
77.5°	136.8	140.5	144.2	139.3	130.7	114.8	102.6	84.3	69.6	61.1	59.9
80°	100.2	105.1	107.5	103.9	94.1	81.9	68.4	53.8	42.8	35.4	35.4
82.5°	77.0	81.9	84.3	78.2	68.4	58.6	48.9	37.9	29.3	23.2	22.0
85°	26.9	25.7	30.5	31.8	37.9	35.4	29.3	22.0	17.1	12.2	11.0
87.5°	7.3	7.3	8.6	8.6	7.3	6.1	6.1	6.1	4.9	3.7	3.7
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)