

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: P530221

Luminaire Tested: **GALN-SA5B-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530221
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-830-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13771 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 204
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

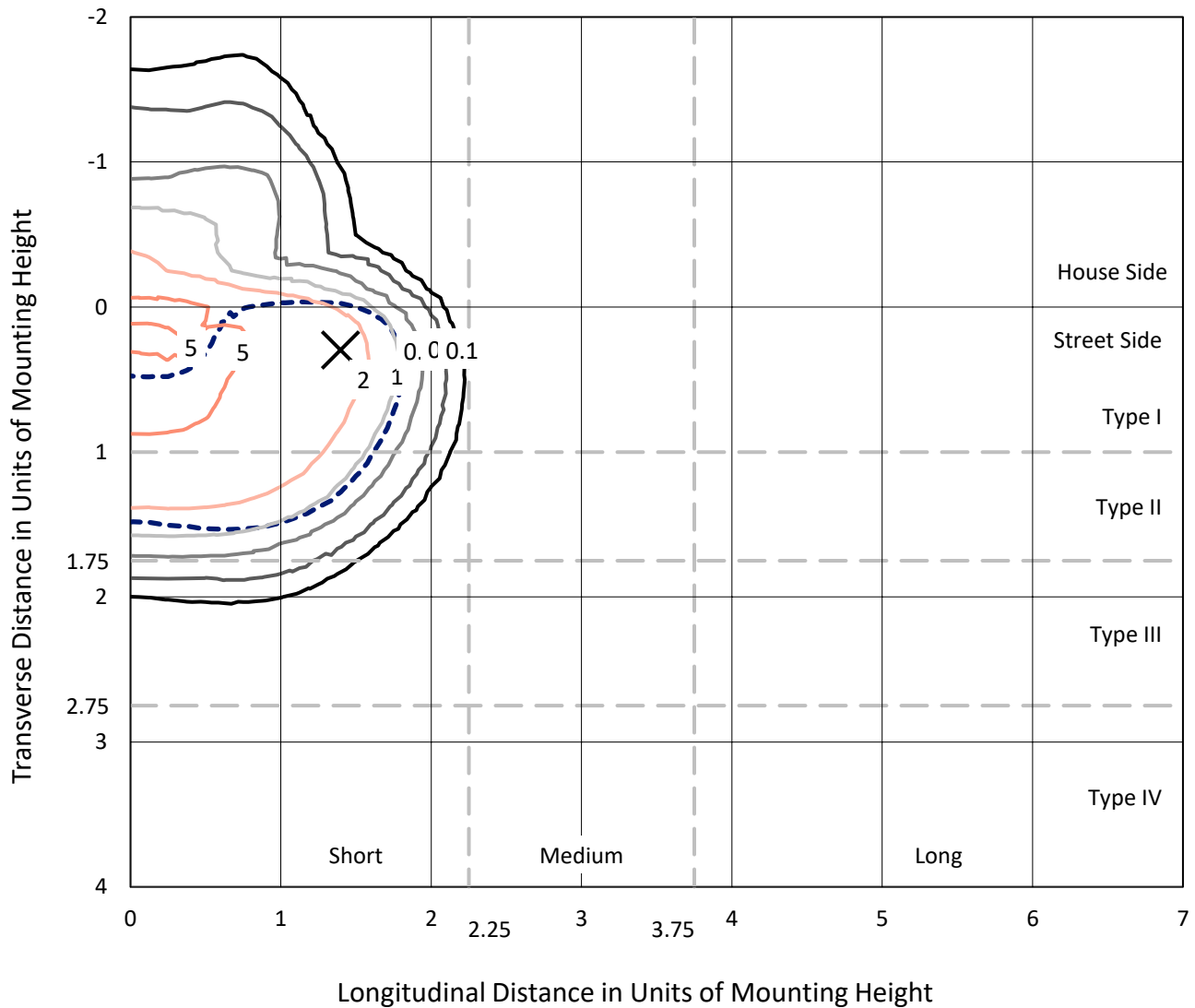


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Iso-Footcandle Lines of Horizontal Illumination

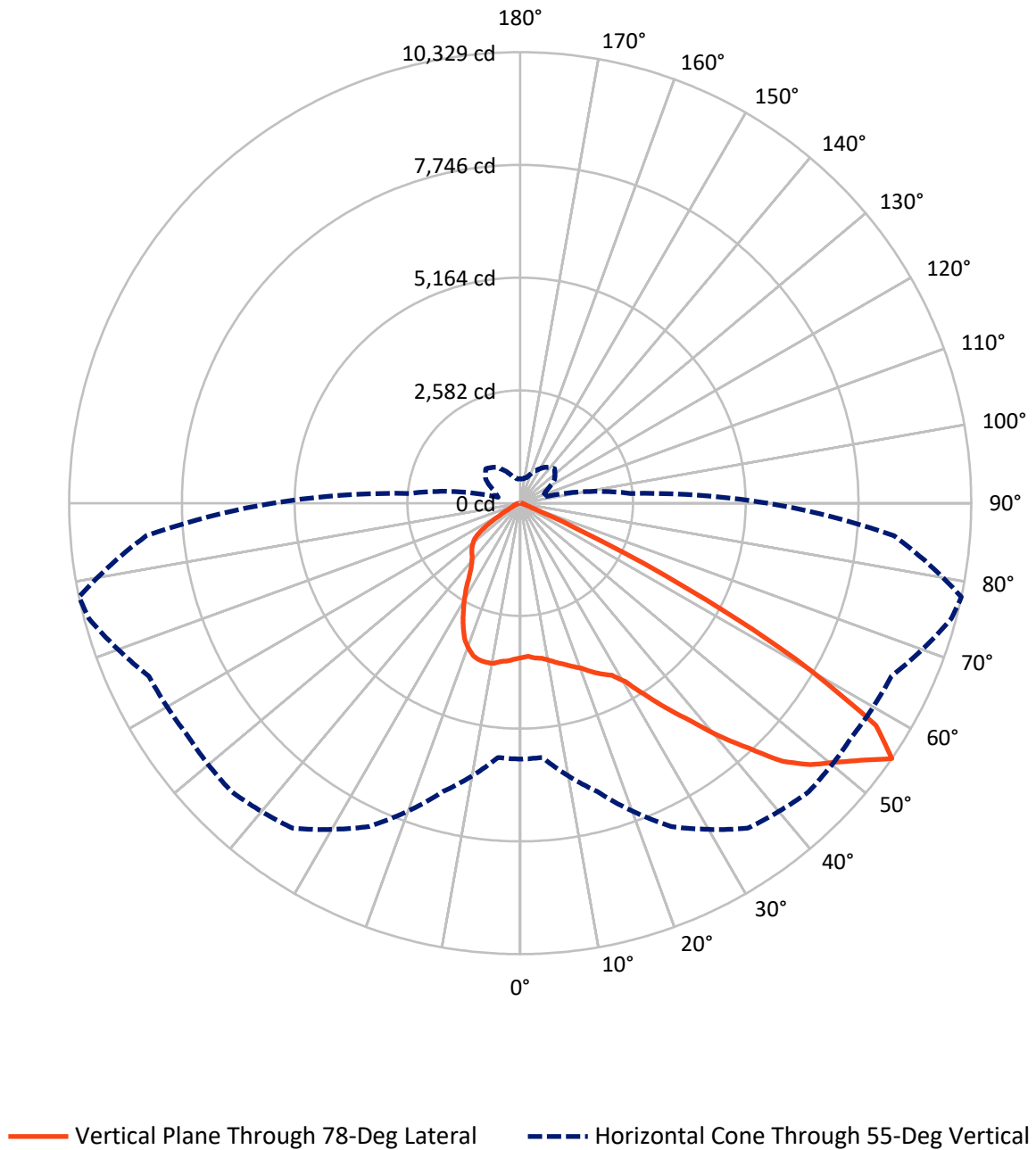
✕ Max cd
 - - - 1/2 Max cd



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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2557.8	0.0	2557.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	11213.2	0.0	11213.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	13771.0	0.0	13771.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.7	2.3
10°-20°	835.5	6.1
20°-30°	1464.5	10.6
30°-40°	2414.8	17.5
40°-50°	3513.8	25.5
50°-60°	3981.5	28.9
60°-70°	1138.4	8.3
70°-80°	88.4	0.6
80°-90°	18.4	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°	13771.0	100.0
0°-180°	13771.0	100.0

Coefficient of Utilization



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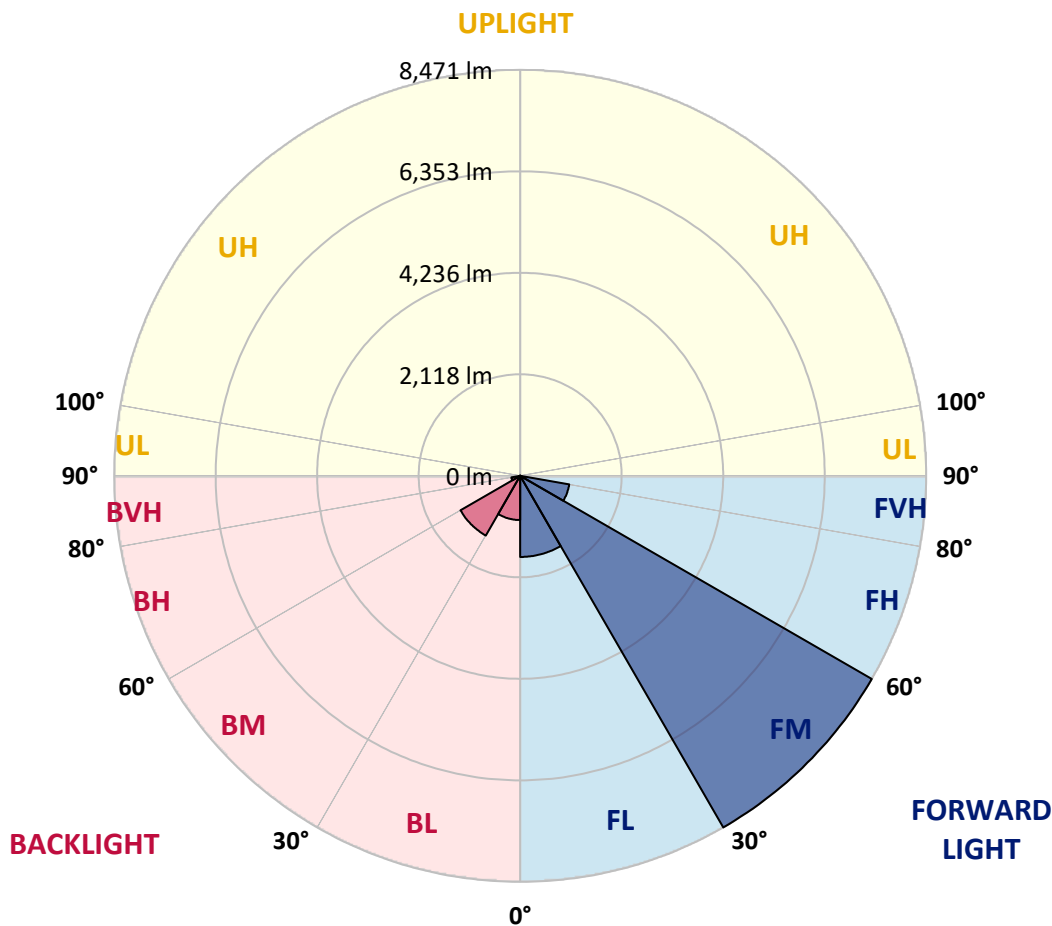
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1692.9	12.3			
FM	(30°-60°)	8471.3	61.5			
FH	(60°-80°)	1040.1	7.6			G1/1800
FVH	(80°-90°)	9.0	0.1			G0/10
BL	(0°-30°)	922.9	6.7	B2/1000		
BM	(30°-60°)	1438.8	10.4	B2/2500		
BH	(60°-80°)	186.7	1.4	B1/500		G1/500
BVH	(80°-90°)	9.4	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°	55°	65°	75°	78°	85°
0°	3540.5	3540.5	3540.5	3540.5	3540.5	3540.5	3540.5	3540.5	3540.5	3540.5	3540.5
2.5°	3328.8	3360.8	3365.7	3405.1	3402.7	3469.1	3488.8	3491.3	3535.6	3513.4	3570.1
5°	3235.2	3218.0	3210.6	3279.5	3299.2	3358.3	3407.6	3437.1	3528.2	3560.2	3619.3
7.5°	3151.5	3151.5	3156.4	3218.0	3210.6	3286.9	3338.6	3429.7	3562.7	3589.8	3661.2
10°	3070.3	3040.7	3077.7	3141.7	3195.8	3230.3	3338.6	3424.8	3579.9	3658.7	3757.2
12.5°	3028.4	3043.2	3048.1	3094.9	3154.0	3257.4	3316.5	3459.3	3703.0	3749.8	3855.7
15°	3291.9	3262.3	3190.9	3149.1	3198.3	3247.5	3395.3	3540.5	3767.0	3833.5	3951.7
17.5°	3597.2	3572.5	3513.4	3400.2	3289.4	3380.5	3496.2	3629.2	3836.0	3934.5	4109.3
20°	3996.0	3956.6	3897.5	3675.9	3579.9	3481.4	3604.5	3762.1	3949.2	4037.9	4217.6
22.5°	4471.2	4471.2	4338.3	4069.9	3870.5	3776.9	3828.6	3919.7	4074.8	4195.5	4372.7
25°	4966.1	4951.3	4830.7	4552.5	4215.2	4104.4	4163.4	4227.5	4269.3	4335.8	4454.0
27.5°	5532.4	5446.2	5293.6	4985.8	4687.9	4473.7	4537.7	4481.1	4429.4	4463.8	4633.7
30°	5916.5	5970.6	5776.1	5480.7	5200.0	4961.2	4973.5	4924.2	4687.9	4737.1	4838.1
32.5°	6315.3	6349.8	6241.5	6079.0	5798.3	5520.1	5419.1	5377.3	5200.0	5222.2	5123.7
35°	6647.7	6714.2	6618.2	6546.8	6465.5	6241.5	5963.3	6098.7	5813.1	5758.9	5502.8
37.5°	6953.0	6933.3	7046.6	6972.7	6955.5	6797.9	6492.6	6519.7	6327.7	6315.3	6019.9
40°	7226.3	7231.3	7386.4	7420.8	7351.9	7071.2	6628.0	6842.2	6997.4	7012.1	6633.0
42.5°	7452.8	7519.3	7652.3	7930.5	7827.1	7359.3	6768.4	7002.3	7578.4	7669.5	7214.0
45°	7649.8	7785.2	7950.2	8198.9	8139.8	7768.0	7118.0	7332.2	8198.9	8437.7	7760.6
47.5°	7662.1	7839.4	8019.1	8388.5	8462.3	7987.1	7479.9	7854.2	8691.3	8949.8	8159.5
50°	7612.9	7706.4	8065.9	8467.2	8634.7	8344.1	7987.1	8292.4	9168.9	9331.4	8361.4
52.5°	7029.4	7100.8	7822.2	8541.1	8944.9	8747.9	8659.3	8903.0	9656.4	9777.1	8551.0
55°	5859.9	5847.5	6839.8	8169.3	9087.7	9346.2	9292.1	9378.2	10220.3	10328.6	8597.7
57.5°	4008.3	4232.4	5089.2	6802.8	8213.6	9205.9	9262.5	9119.7	9562.9	9604.7	7494.7
60°	2161.7	2255.3	2944.7	4540.2	6253.8	7502.1	7649.8	7391.3	7356.8	7238.6	5350.2
62.5°	859.3	906.1	1297.5	2247.9	3407.6	4559.9	4877.5	4771.6	4545.1	4234.9	2769.9
65°	408.7	438.3	645.1	1051.3	1511.7	1900.8	2218.4	2316.9	1708.7	1538.8	913.4
67.5°	278.2	300.4	470.3	600.8	539.2	563.8	733.7	682.0	401.3	342.2	253.6
70°	211.7	226.5	376.7	408.7	241.3	169.9	189.6	177.3	165.0	167.4	165.0
72.5°	150.2	162.5	275.8	241.3	105.9	78.8	100.9	120.6	120.6	120.6	118.2
75°	91.1	103.4	160.0	93.6	41.9	41.9	64.0	81.3	86.2	88.6	83.7
77.5°	46.8	59.1	54.2	27.1	27.1	32.0	46.8	56.6	61.6	61.6	59.1
80°	9.8	9.8	9.8	14.8	27.1	34.5	46.8	51.7	59.1	59.1	54.2
82.5°	0.0	2.5	7.4	14.8	24.6	32.0	44.3	51.7	59.1	61.6	56.6
85°	0.0	2.5	4.9	9.8	17.2	19.7	17.2	14.8	14.8	14.8	14.8
87.5°	0.0	0.0	2.5	2.5	2.5	4.9	4.9	4.9	4.9	4.9	4.9
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°	3540.5	3540.5	3540.5	3540.5	3540.5	3540.5	3540.5	3540.5	3540.5	3540.5	3540.5
2.5°	3575.0	3582.4	3570.1	3567.6	3557.8	3587.3	3515.9	3498.7	3543.0	3501.1	3511.0
5°	3621.8	3639.0	3616.9	3579.9	3525.8	3442.0	3370.6	3277.1	3232.8	3200.8	3195.8
7.5°	3656.3	3668.6	3646.4	3528.2	3365.7	3154.0	2996.4	2880.7	2789.6	2762.5	2718.2
10°	3796.6	3799.1	3688.3	3427.3	3109.7	2831.4	2590.2	2412.9	2321.8	2265.2	2240.5
12.5°	3890.2	3885.2	3661.2	3227.8	2804.4	2435.0	2159.3	1945.1	1861.4	1834.3	1817.0
15°	4008.3	3981.3	3597.2	3023.5	2410.4	2011.6	1762.9	1615.2	1607.8	1590.5	1607.8
17.5°	4101.9	4025.6	3503.6	2651.7	2033.7	1657.0	1494.5	1504.4	1524.1	1541.3	1543.8
20°	4254.5	4097.0	3289.4	2326.7	1684.1	1420.6	1418.2	1462.5	1511.7	1531.4	1551.1
22.5°	4370.3	4126.5	3060.4	1979.5	1398.5	1324.6	1366.5	1433.0	1469.9	1489.6	1519.1
25°	4412.1	4045.3	2755.1	1632.4	1260.6	1280.3	1344.3	1388.6	1435.4	1457.6	1445.3
27.5°	4454.0	4003.4	2390.7	1344.3	1186.7	1250.8	1304.9	1349.2	1364.0	1393.6	1413.3
30°	4554.9	3858.1	2063.3	1162.1	1149.8	1231.1	1270.5	1285.2	1324.6	1341.9	1341.9
32.5°	4636.2	3801.5	1716.1	1075.9	1144.9	1240.9	1245.8	1245.8	1250.8	1238.4	1233.5
35°	4803.6	3607.0	1405.9	1024.2	1142.4	1243.4	1255.7	1213.8	1100.6	1056.3	1043.9
37.5°	5010.4	3481.4	1176.9	1011.9	1159.7	1272.9	1292.6	1135.0	987.3	915.9	903.6
40°	5261.6	3392.8	1026.7	1007.0	1199.1	1341.9	1282.8	1073.5	881.4	778.0	773.1
42.5°	5554.5	3311.6	925.8	1004.5	1248.3	1413.3	1272.9	1021.8	773.1	704.2	714.0
45°	5788.5	3267.2	856.8	987.3	1265.5	1455.1	1280.3	930.7	728.8	684.5	689.4
47.5°	5970.6	3173.7	800.2	957.8	1263.1	1469.9	1213.8	893.8	706.6	718.9	731.3
50°	5975.6	3048.1	728.8	893.8	1226.1	1442.8	1137.5	859.3	701.7	753.4	778.0
52.5°	5909.1	2870.8	652.5	802.7	1140.0	1349.2	1068.6	844.5	679.5	674.6	704.2
55°	5672.7	2538.4	524.4	650.0	962.7	1112.9	1007.0	817.4	613.1	556.4	561.4
57.5°	4584.5	1819.5	386.6	465.3	682.0	815.0	908.5	805.1	551.5	472.7	475.2
60°	2838.8	1031.6	283.1	317.6	421.0	494.9	736.2	748.5	492.4	398.9	393.9
62.5°	1457.6	509.7	219.1	224.1	258.5	290.5	504.7	627.8	445.6	379.2	379.2
65°	487.5	251.1	192.0	172.3	172.3	179.7	305.3	435.8	376.7	317.6	317.6
67.5°	209.3	187.1	167.4	150.2	137.9	130.5	172.3	253.6	280.7	241.3	231.4
70°	162.5	157.6	145.3	125.6	108.3	98.5	100.9	130.5	160.0	155.1	150.2
72.5°	120.6	120.6	115.7	98.5	83.7	71.4	66.5	68.9	76.3	78.8	81.3
75°	83.7	86.2	86.2	76.3	61.6	51.7	44.3	36.9	29.5	24.6	22.2
77.5°	56.6	59.1	64.0	56.6	46.8	34.5	27.1	19.7	12.3	4.9	4.9
80°	49.2	56.6	61.6	56.6	49.2	36.9	27.1	14.8	7.4	0.0	0.0
82.5°	51.7	56.6	64.0	54.2	46.8	34.5	27.1	17.2	7.4	2.5	0.0
85°	12.3	12.3	14.8	17.2	22.2	24.6	19.7	12.3	7.4	2.5	0.0
87.5°	4.9	4.9	4.9	4.9	4.9	2.5	2.5	2.5	2.5	0.0	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)