

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: P651581

Luminaire Tested: **GALN-SA8D-840-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-840-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34745.1 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

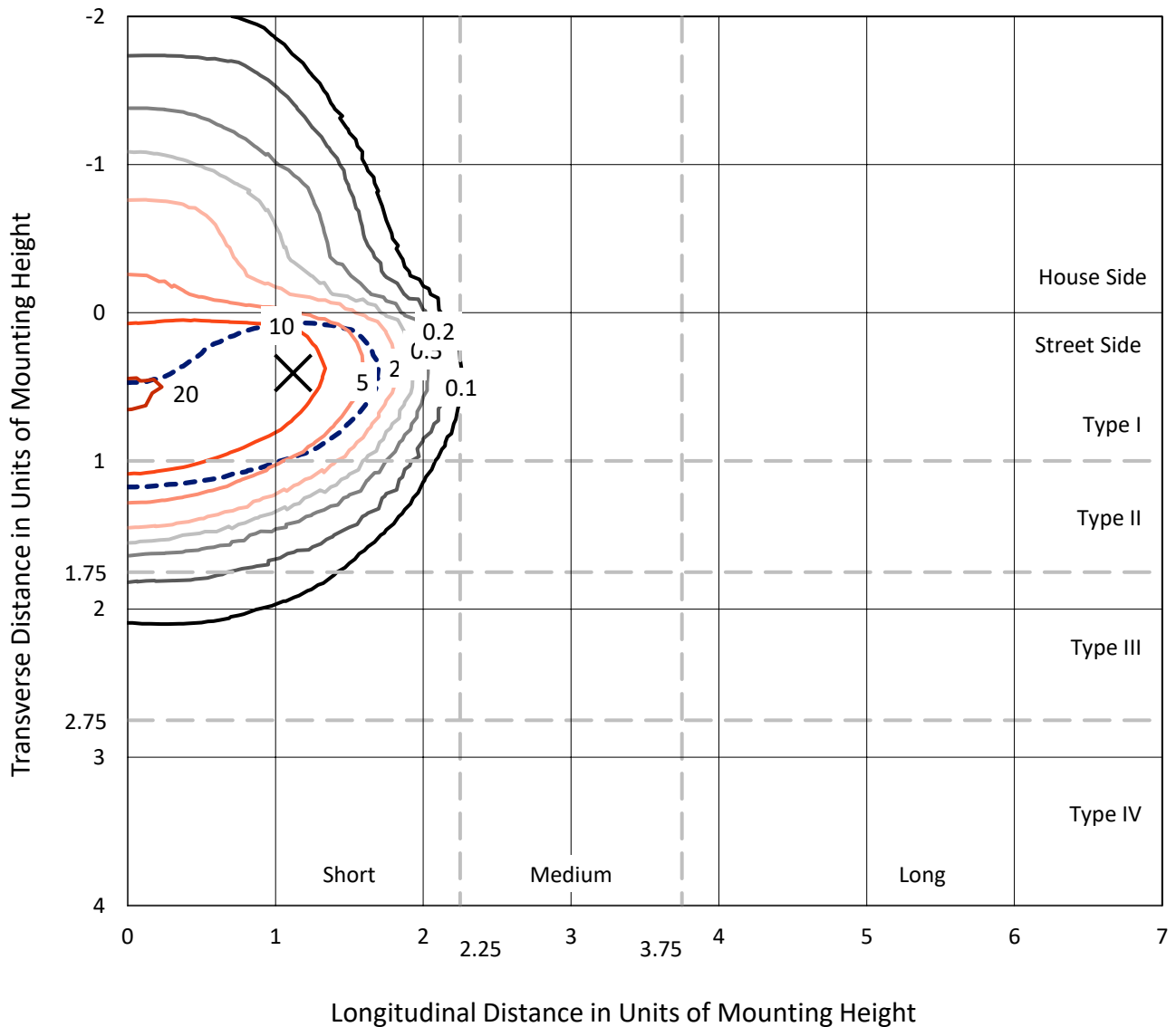
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

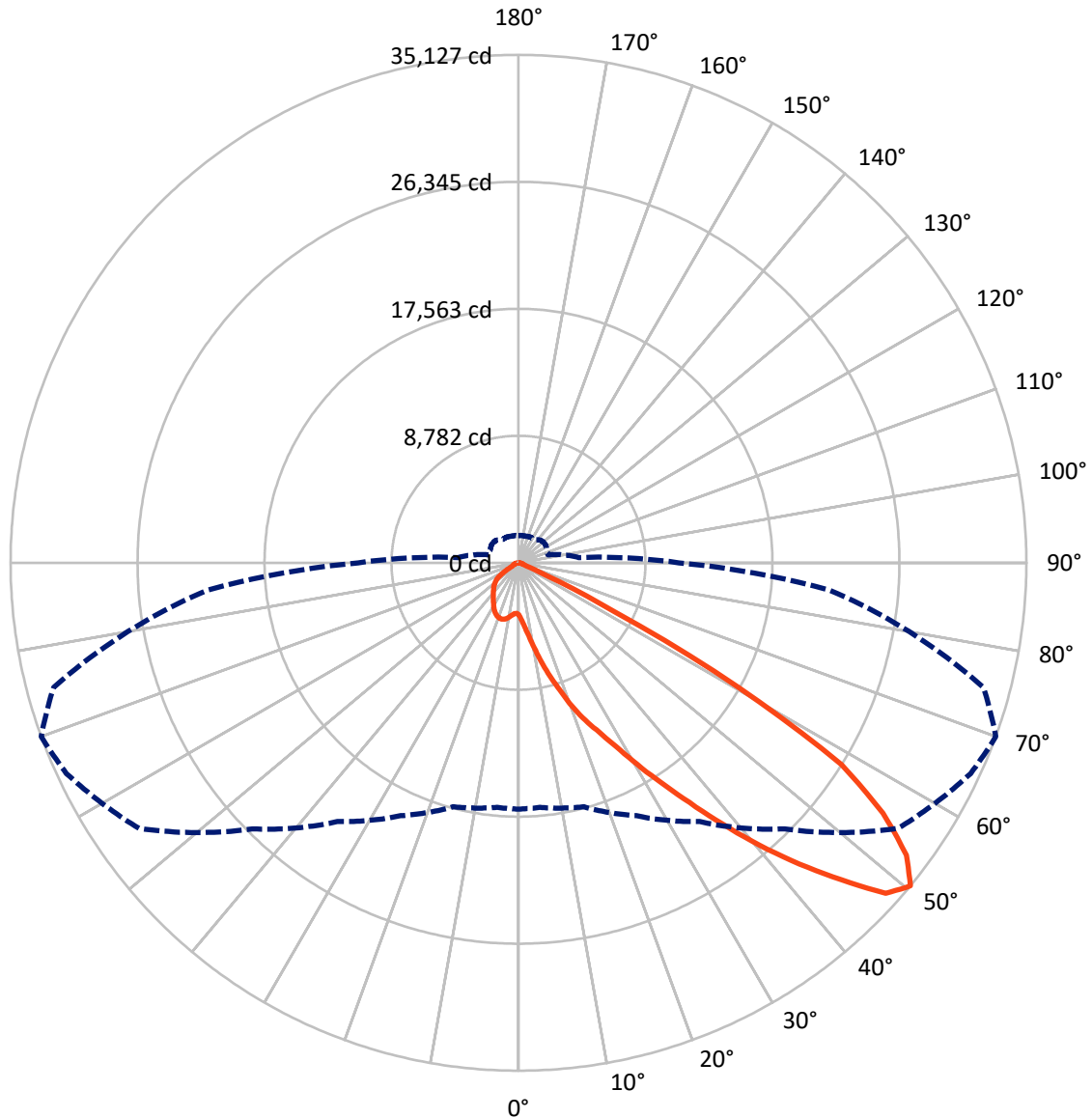
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4852.4	0.0	4852.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	29892.7	0.0	29892.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	34745.1	0.0	34745.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.0	1.3
10°-20°	2024.4	5.8
20°-30°	4246.8	12.2
30°-40°	7320.0	21.1
40°-50°	10698.1	30.8
50°-60°	8332.0	24.0
60°-70°	1411.7	4.1
70°-80°	193.9	0.6
80°-90°	50.2	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°	34745.1	100.0
0°-180°	34745.1	100.0

Coefficient of Utilization

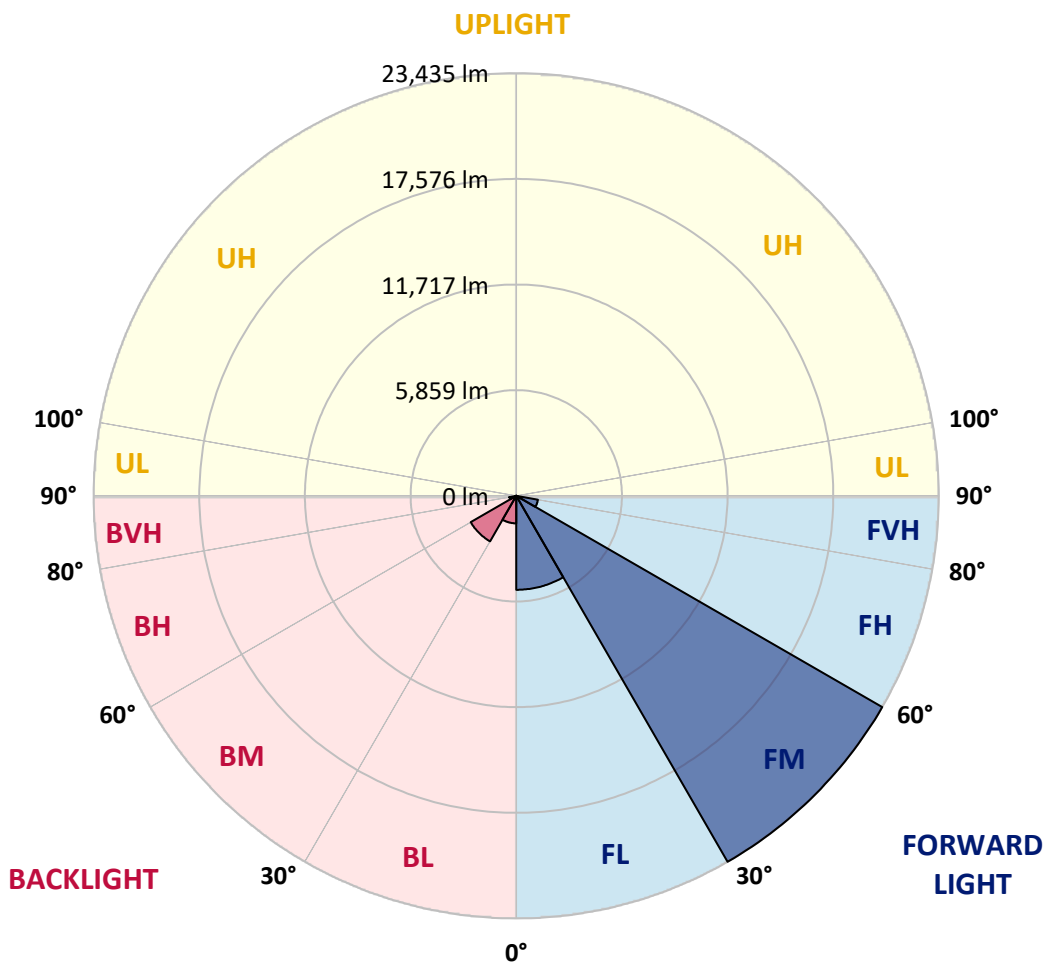


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5212.2	15.0			
FM (30°-60°)	23435.0	67.4			
FH (60°-80°)	1222.3	3.5			G1/1800
FVH (80°-90°)	23.2	0.1			G1/100
BL (0°-30°)	1526.9	4.4	B3/2500		
BM (30°-60°)	2915.1	8.4	B3/5000		
BH (60°-80°)	383.3	1.1	B1/500		G1/500
BVH (80°-90°)	27.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3598.9	3598.9	3598.9	3598.9	3598.9	3598.9	3598.9	3598.9	3598.9	3598.9	3598.9
2.5°	4712.9	4678.6	4604.3	4467.2	4410.1	4273.0	4193.0	4038.7	3941.7	3833.1	3713.2
5°	6638.0	6460.9	6352.3	6198.1	5746.8	5466.9	5004.2	4610.0	4427.2	4227.3	3953.1
7.5°	8626.0	8511.7	8363.2	8031.8	7723.3	7140.7	6346.6	5478.4	5107.1	4764.3	4221.6
10°	10271.1	9951.3	9934.1	9688.5	9351.4	8654.5	7700.5	6620.9	5958.1	5455.5	4604.3
12.5°	11419.4	11128.0	11259.4	11230.9	10916.7	10276.9	9174.4	7746.2	7055.0	6272.3	4998.5
15°	12464.8	12344.8	12304.8	12270.5	12144.9	11670.7	10682.5	9117.2	8117.5	7175.0	5444.0
17.5°	13487.3	13178.9	13327.4	13355.9	13344.5	12916.1	11990.6	10419.7	9242.9	8128.9	5912.5
20°	14395.6	14424.2	14224.3	14184.2	14150.0	14132.8	13230.3	11710.8	10625.4	9128.6	6523.7
22.5°	15561.0	15361.0	15538.1	15423.9	15201.1	15064.0	14372.8	12853.3	11825.0	10334.0	7146.4
25°	16937.7	17097.7	16680.6	16635.0	16389.3	15915.2	15292.5	14132.8	12978.9	11453.7	7820.5
27.5°	18634.4	18354.4	18245.9	17994.5	17549.0	17349.0	16617.8	15452.4	14372.8	12630.5	8471.7
30°	20091.1	20016.8	19474.1	19177.0	18788.6	18782.9	17760.3	17240.5	16189.3	14475.6	9368.6
32.5°	21279.2	20953.6	20753.7	20548.1	20233.9	20319.6	19457.0	19182.7	18125.9	16189.3	10425.4
35°	22073.3	21839.1	21719.1	21404.9	21313.5	21696.3	21336.3	21222.1	20353.8	18600.1	11665.0
37.5°	22324.6	22398.9	22376.1	21981.9	22176.1	23210.1	23672.8	23375.8	22918.8	21142.2	13007.5
40°	22547.5	22598.8	22484.6	22947.3	23501.4	24678.2	26352.0	25860.7	25689.4	23718.5	14875.4
42.5°	22673.1	22633.1	22633.1	23432.9	24272.6	26637.6	28939.7	28614.2	28482.7	26460.6	17034.8
45°	22130.4	21742.0	22159.0	23244.4	24935.3	27603.0	31007.8	31459.0	31270.5	29722.4	19559.7
47.5°	20102.4	20342.4	20576.6	22027.6	24129.8	27306.0	32275.9	33812.6	34161.0	32464.5	21216.4
50°	17034.8	16983.4	17469.0	19297.0	21850.5	26026.3	32030.2	34492.4	35126.5	33287.0	21564.8
52.5°	12390.5	12767.6	13293.1	15109.7	18137.3	22713.1	28859.8	32738.6	33584.1	32275.9	21336.3
55°	7214.9	6798.0	7980.4	9517.1	12373.4	17131.9	24398.3	29019.7	30585.0	30436.5	20182.4
57.5°	2890.5	2799.2	3204.7	4318.7	6455.2	10619.6	17743.2	23844.2	26352.0	27877.2	17737.4
60°	1268.1	1239.6	1456.7	1759.5	2639.2	4895.6	9705.6	14829.8	17446.1	19479.8	12207.7
62.5°	914.0	902.6	1011.1	1119.6	1393.9	2130.8	4078.8	5975.3	7449.2	8997.3	5466.9
65°	736.9	765.5	839.7	896.8	1028.3	1182.5	1439.5	1662.3	2039.3	2113.6	1205.3
67.5°	599.8	622.7	691.2	754.0	776.9	639.8	662.6	582.6	582.6	519.8	417.1
70°	439.8	445.6	525.5	599.8	479.9	257.1	451.3	451.3	405.6	388.5	354.1
72.5°	325.6	331.4	394.2	371.3	188.6	160.0	331.4	365.6	331.4	314.2	285.6
75°	239.9	245.7	205.6	85.7	80.0	102.9	194.2	251.4	239.9	234.2	217.1
77.5°	45.7	34.3	28.6	39.9	57.1	85.7	125.6	154.2	160.0	171.4	160.0
80°	5.7	5.7	17.2	34.3	62.8	91.4	131.4	148.5	154.2	160.0	148.5
82.5°	0.0	5.7	17.2	34.3	62.8	85.7	114.3	131.4	142.8	148.5	142.8
85°	0.0	5.7	11.4	28.6	51.4	62.8	57.1	39.9	34.3	39.9	28.6
87.5°	0.0	0.0	5.7	5.7	11.4	11.4	11.4	11.4	11.4	11.4	11.4
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°	3598.9	3598.9	3598.9	3598.9	3598.9	3598.9	3598.9	3598.9	3598.9	3598.9	3598.9
2.5°	3644.6	3621.8	3541.8	3456.1	3381.8	3416.1	3381.8	3353.2	3364.7	3353.2	3341.9
5°	3844.5	3741.7	3570.4	3496.1	3433.2	3427.5	3410.4	3404.7	3410.4	3410.4	3359.0
7.5°	4033.1	3867.4	3684.6	3604.6	3530.3	3536.1	3496.1	3496.1	3490.4	3461.8	3450.4
10°	4318.7	4095.9	3861.7	3718.9	3627.5	3610.3	3570.4	3530.3	3530.3	3530.3	3473.2
12.5°	4632.9	4352.9	4033.1	3867.4	3758.8	3673.2	3610.3	3598.9	3536.1	3524.6	3496.1
15°	4907.1	4552.9	4147.3	3918.8	3781.7	3667.4	3570.4	3507.5	3479.0	3461.8	3438.9
17.5°	5175.6	4724.3	4210.1	3918.8	3770.3	3638.9	3536.1	3479.0	3410.4	3421.8	3376.1
20°	5535.5	4907.1	4227.3	3844.5	3661.7	3536.1	3399.0	3370.4	3330.4	3296.1	3307.6
22.5°	5883.9	5038.4	4175.9	3753.1	3490.4	3341.9	3273.3	3239.0	3221.9	3193.3	3153.3
25°	6198.1	5181.3	4095.9	3587.5	3307.6	3199.0	3136.2	3130.5	3090.5	3090.5	3016.2
27.5°	6518.0	5232.7	3958.8	3393.3	3147.6	3084.8	3056.2	3044.8	3027.7	2987.7	2936.3
30°	6883.6	5249.9	3758.8	3193.3	3004.8	2936.3	2976.2	3004.8	2930.5	2856.3	2879.2
32.5°	7186.3	5209.8	3518.9	3004.8	2902.0	2867.7	2947.7	2976.2	2890.5	2810.5	2770.6
35°	7552.0	5112.7	3284.7	2856.3	2799.2	2867.7	2936.3	2936.3	2764.9	2667.7	2644.9
37.5°	8106.1	5004.2	3067.6	2730.6	2690.6	2833.4	2924.8	2862.0	2593.5	2473.5	2445.0
40°	8700.2	4935.7	2856.3	2604.9	2633.5	2776.3	2827.7	2633.5	2359.3	2285.0	2262.2
42.5°	9562.8	4798.6	2667.7	2496.4	2582.0	2696.3	2696.3	2347.8	2245.0	2205.0	2199.3
45°	10636.8	4701.4	2502.1	2405.0	2507.8	2536.4	2445.0	2199.3	2125.0	2113.6	2119.3
47.5°	11162.3	4512.9	2330.7	2296.4	2370.7	2376.4	2136.5	2079.4	2016.5	1999.4	1988.0
50°	11082.4	4175.9	2108.0	2153.6	2256.5	2199.3	1948.0	1959.4	1902.3	1896.5	1868.0
52.5°	10522.5	3644.6	1885.1	1993.7	2108.0	1942.3	1793.8	1782.3	1782.3	1708.1	1679.5
55°	9328.6	2936.3	1616.7	1753.7	1890.8	1633.8	1593.8	1582.3	1553.8	1485.3	1468.1
57.5°	7386.3	2153.6	1216.8	1365.3	1605.2	1388.2	1382.4	1331.1	1256.8	1205.3	1205.3
60°	4393.0	1239.6	765.5	834.0	1062.5	1125.3	1251.1	1228.2	1102.6	1022.6	999.7
62.5°	2005.1	639.8	485.6	497.0	571.3	731.2	982.5	1136.8	959.7	822.6	811.1
65°	674.1	474.2	399.9	382.7	394.2	439.8	588.4	805.5	765.5	634.1	611.2
67.5°	411.3	422.7	377.0	348.4	348.4	342.8	337.1	365.6	451.3	439.8	445.6
70°	354.1	388.5	348.4	314.2	302.8	285.6	239.9	199.9	171.4	199.9	211.3
72.5°	285.6	308.5	297.0	268.5	239.9	217.1	171.4	131.4	97.1	85.7	85.7
75°	211.3	228.5	239.9	205.6	182.8	154.2	125.6	85.7	51.4	34.3	34.3
77.5°	154.2	171.4	177.1	160.0	137.1	108.6	80.0	57.1	28.6	11.4	11.4
80°	131.4	154.2	171.4	160.0	142.8	102.9	74.3	39.9	22.9	5.7	5.7
82.5°	125.6	154.2	171.4	154.2	137.1	97.1	74.3	45.7	17.2	5.7	5.7
85°	28.6	39.9	51.4	62.8	74.3	74.3	57.1	34.3	17.2	5.7	5.7
87.5°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	5.7	5.7	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)