

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: P651366

Luminaire Tested: **GALN-SA4D-840-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651366
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-840-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15369.3 lumens
Efficiency: N/A
Efficacy: 62.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

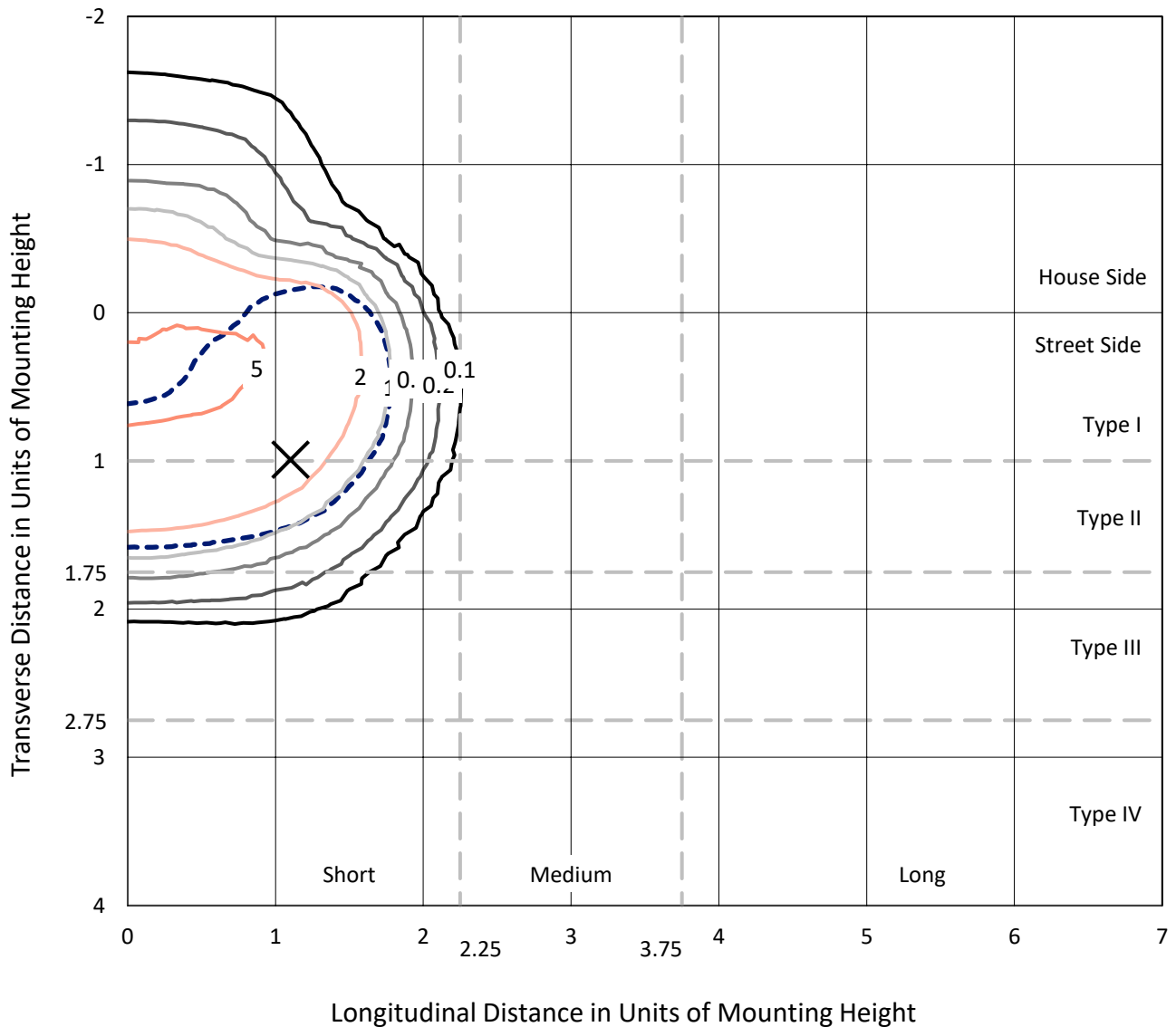
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

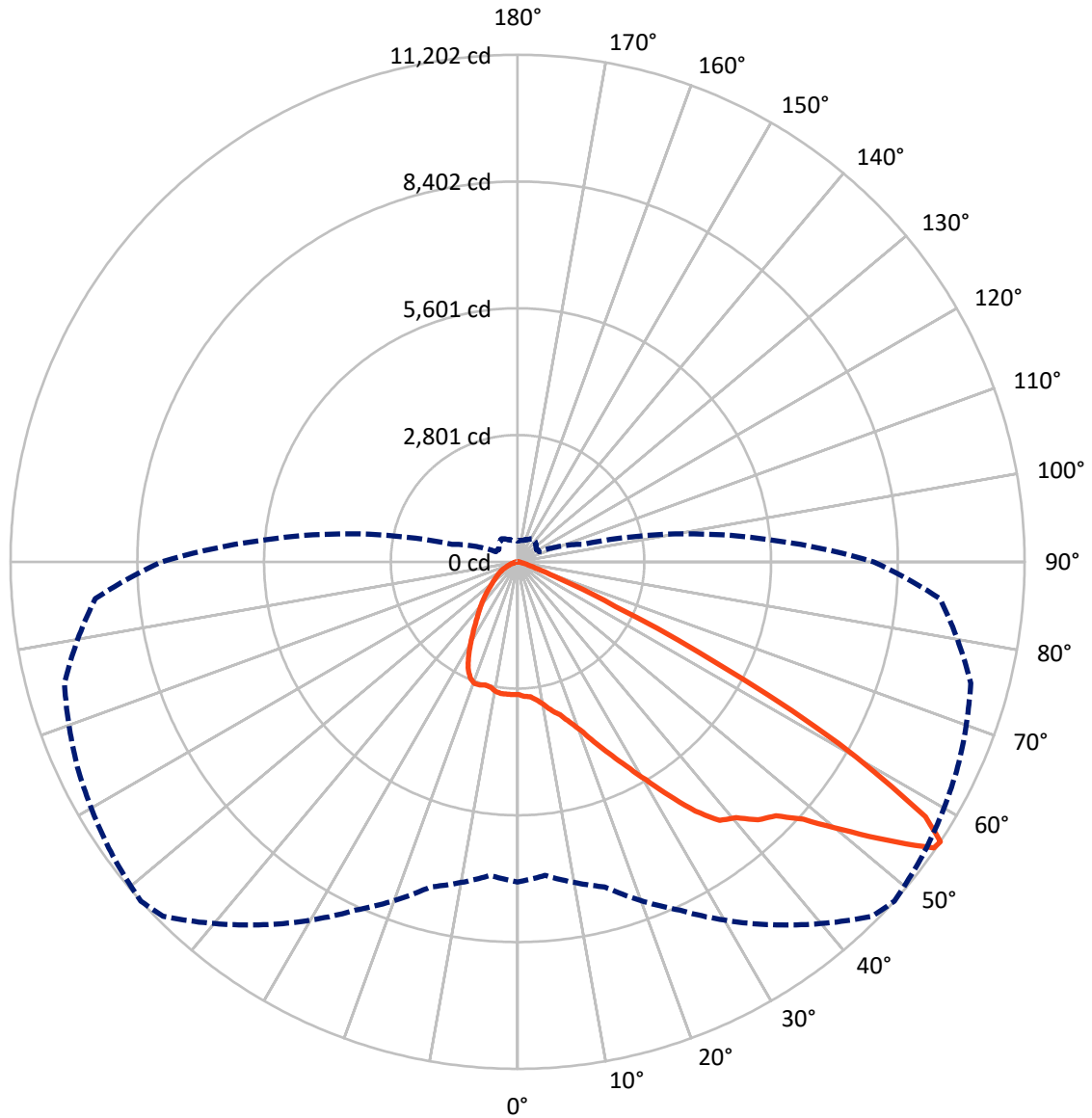
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3342.5	0.0	3342.5
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	12026.7	0.0	12026.7
	% Fixture	78.3	0.0	78.3
Total	Lumens	15369.3	0.0	15369.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.0	1.9
10°-20°	913.9	5.9
20°-30°	1657.6	10.8
30°-40°	2603.7	16.9
40°-50°	3798.3	24.7
50°-60°	4576.2	29.8
60°-70°	1339.9	8.7
70°-80°	170.0	1.1
80°-90°	23.8	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°	15369.3	100.0
0°-180°	15369.3	100.0

Coefficient of Utilization



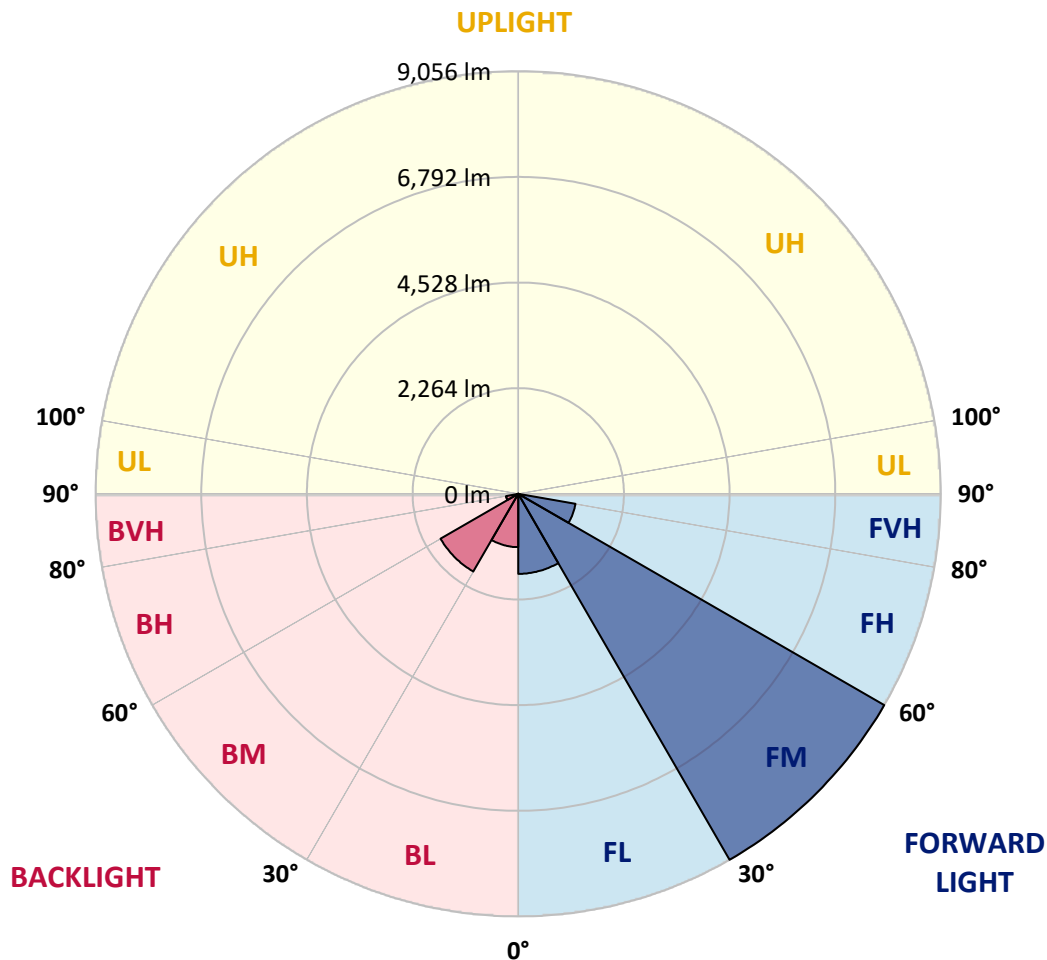
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1714.9	11.2			
FM (30°-60°)	9055.6	58.9			
FH (60°-80°)	1244.3	8.1			G1/1800
FVH (80°-90°)	12.0	0.1			G1/100
BL (0°-30°)	1142.5	7.4	B3/2500		
BM (30°-60°)	1922.6	12.5	B2/2500		
BH (60°-80°)	265.6	1.7	B1/500		G1/500
BVH (80°-90°)	11.9	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2935.5	2935.5	2935.5	2935.5	2935.5	2935.5	2935.5	2935.5	2935.5	2935.5	2935.5
2.5°	2988.7	2974.7	2974.7	2952.3	2977.5	2966.3	2974.7	2946.7	2974.7	2932.7	2966.3
5°	3002.7	3005.5	2994.3	3008.3	3008.3	3025.1	2997.1	3022.3	3036.3	3005.5	2991.5
7.5°	3075.5	3081.1	3078.2	3067.0	3089.4	3086.6	3083.9	3064.3	3069.9	3058.6	3041.9
10°	3218.2	3215.4	3229.4	3201.4	3184.6	3204.2	3209.8	3179.0	3156.6	3148.2	3095.0
12.5°	3425.2	3391.7	3372.1	3344.1	3352.5	3324.6	3374.8	3321.7	3310.5	3260.1	3207.0
15°	3593.2	3587.5	3590.4	3545.6	3495.2	3506.4	3506.4	3478.5	3461.6	3400.1	3324.6
17.5°	3937.4	3819.8	3845.1	3789.0	3747.1	3744.3	3719.1	3724.7	3679.9	3551.2	3436.5
20°	4206.0	4155.6	4116.4	4021.3	3957.0	3976.6	3965.3	3937.4	3923.3	3755.5	3593.2
22.5°	4446.7	4463.4	4399.1	4374.0	4284.4	4292.8	4315.2	4289.9	4183.6	4010.1	3769.4
25°	4785.3	4765.7	4679.0	4648.2	4564.2	4595.0	4681.8	4662.2	4595.0	4281.6	3906.6
27.5°	5185.4	5118.3	5135.1	4995.2	4914.0	5000.8	5104.3	5202.3	5011.9	4600.6	4068.9
30°	5468.1	5398.1	5392.6	5386.9	5367.3	5468.1	5588.4	5678.0	5524.1	4919.6	4337.5
32.5°	5608.0	5624.8	5672.4	5655.6	5826.3	6033.4	6159.3	6288.1	6095.0	5440.1	4692.9
35°	5980.2	5873.9	5980.2	5991.4	6167.7	6607.1	6766.6	7074.4	7026.8	6176.1	5126.7
37.5°	6198.5	6190.1	6204.1	6310.4	6481.2	7024.0	7250.7	7488.6	7399.0	6618.2	5666.8
40°	6559.5	6581.8	6579.1	6660.2	6847.8	7337.5	7429.8	7622.9	7631.3	7231.1	6461.6
42.5°	7138.7	7049.2	6990.5	7074.4	7337.5	7608.9	7793.5	7754.4	8031.5	7975.5	7483.0
45°	7659.2	7712.5	7625.7	7765.6	7860.7	8006.2	8000.7	8084.6	8437.2	8703.1	8252.6
47.5°	8146.2	8179.7	8221.8	8316.9	8524.0	8546.3	8498.8	8462.4	8949.3	9223.6	8848.6
50°	8437.2	8468.0	8663.9	8834.6	9220.8	9271.2	9299.1	9206.8	9537.0	9567.8	9411.0
52.5°	8358.9	8392.4	8666.7	9229.1	9844.8	10306.5	10222.6	10065.9	10046.3	10166.7	9931.5
55°	7664.9	7634.1	8011.9	8887.8	10040.7	11148.9	11160.1	10995.0	10678.8	10597.6	9853.2
56°	7074.4	6954.1	7435.4	8493.2	9788.8	11076.1	11202.0	11025.8	10729.1	10365.3	9369.1
57.5°	5795.5	5910.3	6388.8	7264.7	8918.6	10552.9	10625.6	10583.6	10359.8	9749.7	8244.2
60°	3195.8	3397.3	3819.8	4891.6	6349.6	8098.6	8157.4	8498.8	8540.8	7466.1	5672.4
62.5°	1357.2	1334.8	1774.2	2563.4	3615.5	4888.8	4998.0	5347.8	5412.2	4304.0	2846.0
65°	551.3	582.1	803.2	1290.1	1911.3	2227.6	2381.5	2496.2	2708.9	1777.0	1049.4
67.5°	363.8	361.0	472.9	736.0	1029.8	993.5	993.5	1049.4	971.0	724.8	453.4
70°	260.3	268.6	338.6	509.3	640.8	475.8	456.2	436.6	495.3	478.5	366.6
72.5°	170.7	181.9	226.6	305.0	333.0	260.3	260.3	313.4	408.6	386.2	299.4
75°	111.9	114.7	139.9	176.3	165.1	134.3	148.4	209.9	296.6	285.4	212.7
77.5°	75.5	78.4	95.1	114.7	92.3	75.5	81.2	106.3	145.5	145.5	111.9
80°	28.0	30.8	39.2	36.4	42.0	53.2	58.8	72.7	86.8	86.8	75.5
82.5°	0.0	2.8	8.4	19.6	30.8	42.0	47.6	55.9	64.3	72.7	70.0
85°	0.0	2.8	8.4	14.0	22.4	25.1	28.0	19.6	16.8	16.8	14.0
87.5°	0.0	0.0	2.8	2.8	2.8	2.8	2.8	2.8	5.6	2.8	2.8
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°	2935.5	2935.5	2935.5	2935.5	2935.5	2935.5	2935.5	2935.5	2935.5	2935.5	2935.5
2.5°	2935.5	2932.7	2932.7	2924.3	2941.1	2932.7	2938.4	2935.5	2899.2	2927.2	2907.6
5°	2966.3	2985.9	2955.1	2949.6	2927.2	2935.5	2935.5	2907.6	2932.7	2930.0	2924.3
7.5°	3044.7	3011.1	2977.5	2943.9	2938.4	2930.0	2899.2	2888.0	2907.6	2885.1	2918.8
10°	3078.2	3083.9	3033.5	2988.7	2946.7	2888.0	2846.0	2820.8	2790.0	2823.6	2843.2
12.5°	3232.1	3176.2	3089.4	3019.5	2876.8	2818.0	2776.1	2764.9	2818.0	2829.2	2809.6
15°	3285.4	3277.0	3165.0	3008.3	2860.0	2790.0	2798.4	2776.1	2781.6	2753.6	2759.2
17.5°	3394.4	3299.3	3167.8	2971.9	2857.2	2840.4	2790.0	2700.5	2650.1	2627.7	2647.3
20°	3514.8	3422.4	3232.1	2985.9	2882.4	2837.6	2672.4	2563.4	2459.8	2403.8	2406.6
22.5°	3621.2	3506.4	3204.2	2991.5	2904.7	2720.0	2521.4	2305.9	2177.2	2090.4	2093.2
25°	3749.9	3587.5	3215.4	3002.7	2846.0	2532.6	2247.2	2037.2	1883.3	1824.5	1844.1
27.5°	3822.6	3637.9	3277.0	3027.9	2692.0	2266.7	1958.9	1763.0	1673.4	1645.5	1642.6
30°	4040.9	3749.9	3352.5	2977.5	2434.6	1981.3	1695.9	1575.5	1488.7	1463.6	1469.1
32.5°	4365.5	3954.1	3450.5	2846.0	2171.5	1726.7	1525.2	1435.6	1354.4	1306.8	1301.3
35°	4636.9	4304.0	3554.0	2641.7	1866.5	1530.7	1404.8	1292.9	1169.7	1116.6	1102.6
37.5°	5154.7	4698.5	3531.6	2333.9	1575.5	1385.2	1276.0	1139.0	1032.6	959.8	951.4
40°	5843.1	5160.3	3422.4	1958.9	1360.1	1256.5	1139.0	1007.4	875.9	814.3	808.7
42.5°	6679.8	5725.5	3223.8	1578.3	1144.5	1127.8	1021.4	870.3	752.8	708.0	710.8
45°	7359.8	6209.7	3022.3	1267.7	985.1	1001.8	909.5	766.7	685.6	649.3	649.3
47.5°	7964.3	6537.1	2804.0	1046.6	836.7	875.9	794.7	710.8	640.8	612.8	607.3
50°	8546.3	6870.1	2585.7	847.9	713.6	752.8	744.4	677.3	621.2	587.7	590.5
52.5°	8910.1	6923.3	2308.7	694.0	624.0	668.8	696.8	635.2	573.6	554.1	548.5
55°	8465.2	6237.7	1791.0	570.9	528.9	587.7	640.8	570.9	523.3	489.7	486.9
56°	7866.4	5577.3	1497.1	526.1	500.9	565.3	621.2	545.7	492.5	472.9	458.9
57.5°	6660.2	4564.2	1105.4	467.3	464.6	526.1	590.5	520.5	458.9	442.1	442.1
60°	4152.9	2568.9	668.8	391.7	403.0	467.3	531.7	464.6	408.6	408.6	417.0
62.5°	1891.7	1069.0	405.8	333.0	347.0	403.0	472.9	419.7	389.0	419.7	425.4
65°	643.6	461.7	293.8	265.8	274.3	333.0	405.8	425.4	422.6	442.1	453.4
67.5°	361.0	296.6	246.2	221.1	215.5	246.2	333.0	425.4	408.6	400.1	405.8
70°	305.0	251.9	218.2	195.9	187.5	198.7	257.4	321.9	288.2	279.8	274.3
72.5°	246.2	209.9	190.3	176.3	151.1	128.8	117.6	123.1	137.1	145.5	159.5
75°	173.5	159.5	159.5	142.7	109.2	81.2	64.3	53.2	36.4	25.1	28.0
77.5°	98.0	98.0	100.8	86.8	70.0	53.2	39.2	28.0	14.0	5.6	2.8
80°	67.2	72.7	78.4	70.0	58.8	47.6	33.6	19.6	8.4	0.0	0.0
82.5°	67.2	75.5	81.2	70.0	58.8	44.7	33.6	19.6	8.4	2.8	0.0
85°	14.0	16.8	19.6	22.4	33.6	33.6	25.1	16.8	8.4	2.8	0.0
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	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)