

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: P529387

Luminaire Tested: **GALN-SA4C-735-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529387
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-SA4C-735-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1050mA 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: 15472 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

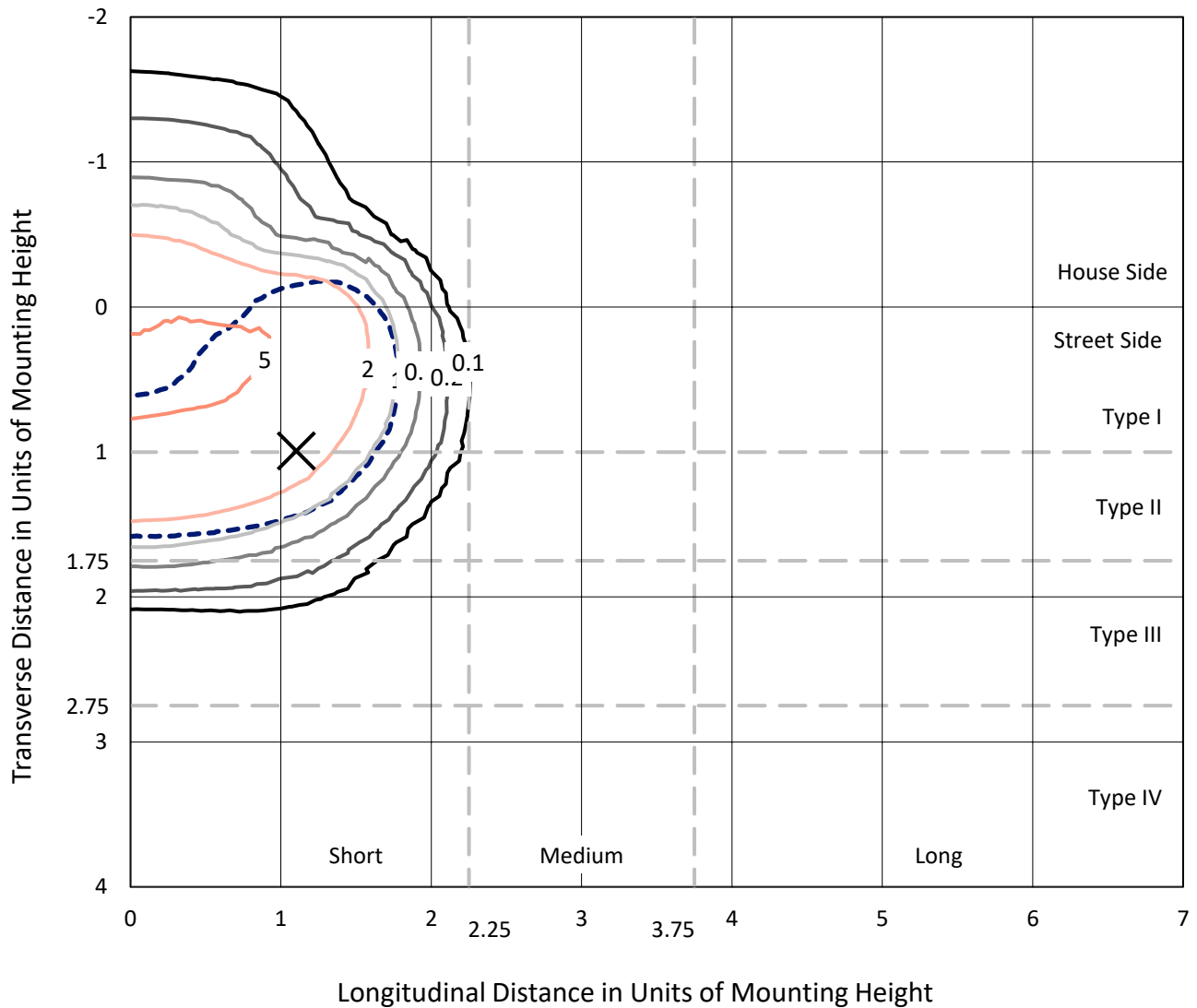
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529387
 CATALOG NUMBER: GALN-SA4C-735-U-T3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

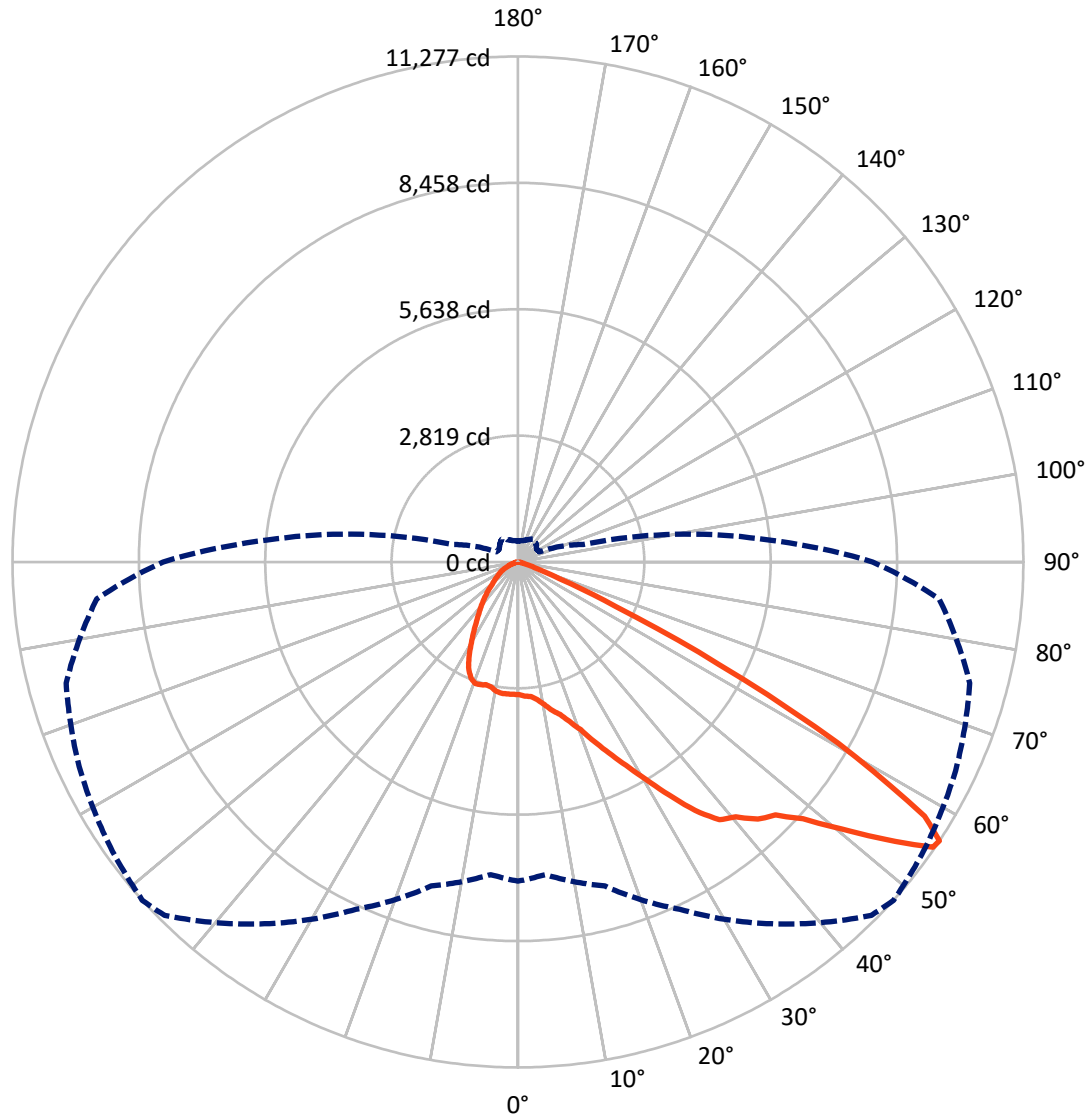
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P529387
CATALOG NUMBER: GALN-SA4C-735-U-T3-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P529387
 CATALOG NUMBER: GALN-SA4C-735-U-T3-GRSBK

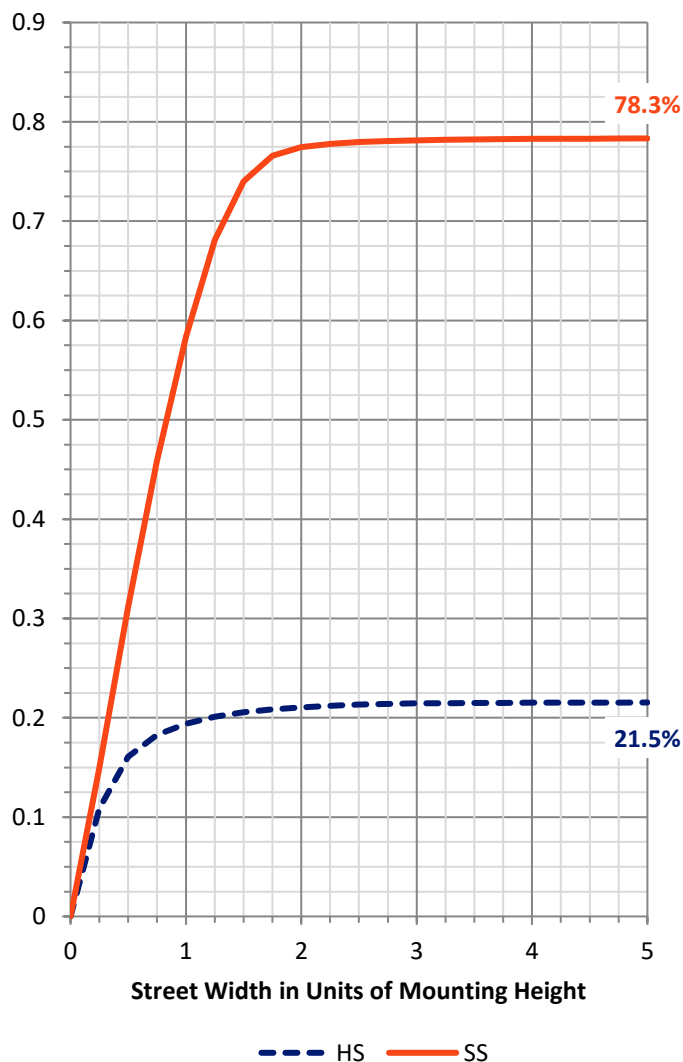
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3364.9	0.0	3364.9
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	12107.1	0.0	12107.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	15472.0	0.0	15472.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.9	1.9
10°-20°	920.0	5.9
20°-30°	1668.6	10.8
30°-40°	2621.1	16.9
40°-50°	3823.7	24.7
50°-60°	4606.8	29.8
60°-70°	1348.8	8.7
70°-80°	171.1	1.1
80°-90°	24.0	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°	15472.0	100.0
0°-180°	15472.0	100.0

Coefficient of Utilization

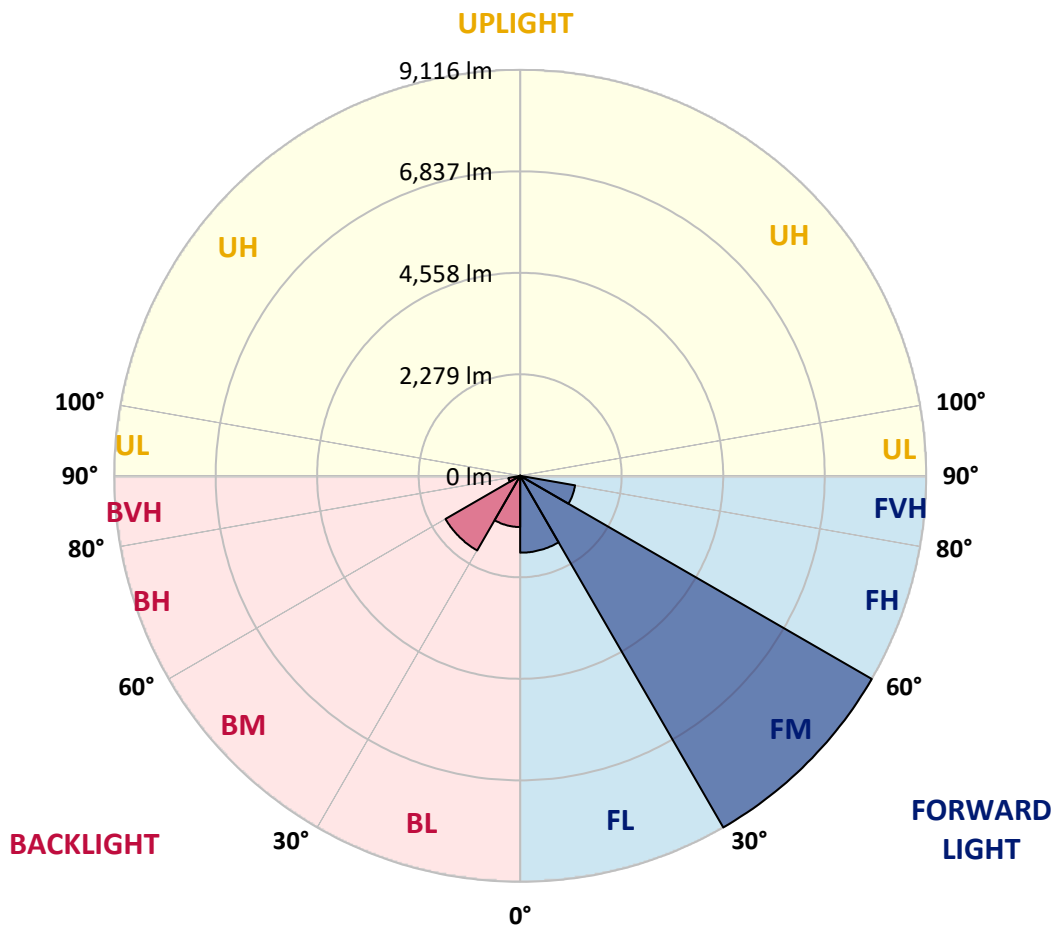


REPORT NUMBER: P529387
 CATALOG NUMBER: GALN-SA4C-735-U-T3-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1726.4	11.2			
FM (30°-60°)	9116.1	58.9			
FH (60°-80°)	1252.6	8.1			G1/1800
FVH (80°-90°)	12.0	0.1			G1/100
BL (0°-30°)	1150.1	7.4	B3/2500		
BM (30°-60°)	1935.5	12.5	B2/2500		
BH (60°-80°)	267.4	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





REPORT NUMBER: P529387

CATALOG NUMBER: GALN-SA4C-735-U-T3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2
2.5°	3008.7	2994.6	2994.6	2972.1	2997.4	2986.1	2994.6	2966.4	2994.6	2952.3	2986.1
5°	3022.8	3025.6	3014.3	3028.4	3028.4	3045.3	3017.1	3042.5	3056.6	3025.6	3011.5
7.5°	3096.0	3101.6	3098.8	3087.6	3110.1	3107.3	3104.5	3084.7	3090.4	3079.1	3062.2
10°	3239.7	3236.9	3251.0	3222.8	3205.9	3225.6	3231.2	3200.2	3177.7	3169.3	3115.7
12.5°	3448.2	3414.3	3394.6	3366.5	3374.9	3346.7	3397.4	3343.9	3332.7	3281.9	3228.4
15°	3617.2	3611.5	3614.4	3569.3	3518.6	3529.9	3529.9	3501.7	3484.8	3422.8	3346.7
17.5°	3963.7	3845.4	3870.7	3814.4	3772.1	3769.3	3744.0	3749.6	3704.5	3574.9	3459.4
20°	4234.1	4183.4	4144.0	4048.2	3983.4	4003.1	3991.9	3963.7	3949.6	3780.6	3617.2
22.5°	4476.4	4493.3	4428.5	4403.2	4313.0	4321.5	4344.0	4318.6	4211.6	4036.9	3794.7
25°	4817.3	4797.6	4710.2	4679.2	4594.7	4625.7	4713.0	4693.3	4625.7	4310.2	3932.7
27.5°	5220.1	5152.5	5169.4	5028.6	4946.9	5034.2	5138.4	5237.0	5045.5	4631.3	4096.1
30°	5504.7	5434.2	5428.6	5423.0	5403.2	5504.7	5625.8	5715.9	5561.0	4952.5	4366.5
32.5°	5645.5	5662.4	5710.3	5693.4	5865.2	6073.7	6200.5	6330.1	6135.7	5476.5	4724.3
35°	6020.2	5913.1	6020.2	6031.5	6208.9	6651.2	6811.8	7121.7	7073.8	6217.4	5161.0
37.5°	6239.9	6231.5	6245.6	6352.6	6524.4	7071.0	7299.2	7538.6	7448.5	6662.5	5704.7
40°	6603.3	6625.9	6623.0	6704.7	6893.5	7386.5	7479.5	7673.8	7682.3	7279.4	6504.7
42.5°	7186.5	7096.3	7037.2	7121.7	7386.5	7659.7	7845.7	7806.2	8085.1	8028.8	7533.0
45°	7710.5	7764.0	7676.7	7817.5	7913.3	8059.8	8054.1	8138.7	8493.6	8761.2	8307.7
47.5°	8200.6	8234.4	8276.7	8372.5	8580.9	8603.5	8555.6	8519.0	9009.1	9285.2	8907.7
50°	8493.6	8524.6	8721.8	8893.6	9282.4	9333.1	9361.3	9268.3	9600.7	9631.7	9474.0
52.5°	8414.7	8448.5	8724.6	9290.9	9910.6	10375.5	10290.9	10133.2	10113.5	10234.6	9998.0
55°	7716.1	7685.1	8065.4	8947.2	10107.8	11223.4	11234.7	11068.5	10750.1	10668.4	9919.1
56°	7121.7	7000.5	7485.1	8550.0	9854.3	11150.2	11276.9	11099.5	10800.8	10434.6	9431.7
57.5°	5834.3	5949.8	6431.5	7313.2	8978.2	10623.4	10696.6	10654.3	10429.0	9814.8	8299.2
60°	3217.2	3420.0	3845.4	4924.3	6392.0	8152.7	8211.9	8555.6	8597.8	7516.1	5710.3
62.5°	1366.3	1343.8	1786.1	2580.5	3639.7	4921.5	5031.4	5383.5	5448.3	4332.7	2865.0
65°	555.0	586.0	808.5	1298.7	1924.1	2242.4	2397.4	2512.9	2727.0	1788.9	1056.4
67.5°	366.2	363.4	476.1	740.9	1036.7	1000.1	1000.1	1056.4	977.5	729.6	456.4
70°	262.0	270.4	340.9	512.7	645.1	478.9	459.2	439.5	498.6	481.7	369.0
72.5°	171.8	183.1	228.2	307.1	335.2	262.0	262.0	315.5	411.3	388.8	301.4
75°	112.7	115.5	140.9	177.5	166.2	135.2	149.3	211.3	298.6	287.3	214.1
77.5°	76.1	78.9	95.8	115.5	93.0	76.1	81.7	107.1	146.5	146.5	112.7
80°	28.2	31.0	39.4	36.6	42.3	53.5	59.2	73.2	87.3	87.3	76.1
82.5°	0.0	2.8	8.5	19.7	31.0	42.3	47.9	56.3	64.8	73.2	70.4
85°	0.0	2.8	8.5	14.1	22.5	25.4	28.2	19.7	16.9	16.9	14.1
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



REPORT NUMBER: P529387

CATALOG NUMBER: GALN-SA4C-735-U-T3-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2
2.5°	2955.2	2952.3	2952.3	2943.9	2960.8	2952.3	2958.0	2955.2	2918.5	2946.7	2927.0
5°	2986.1	3005.9	2974.9	2969.2	2946.7	2955.2	2955.2	2927.0	2952.3	2949.5	2943.9
7.5°	3065.0	3031.2	2997.4	2963.6	2958.0	2949.5	2918.5	2907.3	2927.0	2904.5	2938.3
10°	3098.8	3104.5	3053.8	3008.7	2966.4	2907.3	2865.0	2839.7	2808.7	2842.5	2862.2
12.5°	3253.8	3197.4	3110.1	3039.7	2896.0	2836.8	2794.6	2783.3	2836.8	2848.1	2828.4
15°	3307.3	3298.8	3186.2	3028.4	2879.1	2808.7	2817.1	2794.6	2800.2	2772.0	2777.7
17.5°	3417.2	3321.4	3189.0	2991.8	2876.3	2859.4	2808.7	2718.5	2667.8	2645.3	2665.0
20°	3538.3	3445.3	3253.8	3005.9	2901.6	2856.6	2690.3	2580.5	2476.2	2419.9	2422.7
22.5°	3645.4	3529.9	3225.6	3011.5	2924.2	2738.2	2538.2	2321.3	2191.7	2104.4	2107.2
25°	3774.9	3611.5	3236.9	3022.8	2865.0	2549.5	2262.1	2050.9	1895.9	1836.8	1856.5
27.5°	3848.2	3662.3	3298.8	3048.1	2710.1	2281.9	1972.0	1774.8	1684.6	1656.5	1653.6
30°	4067.9	3774.9	3374.9	2997.4	2450.9	1994.5	1707.2	1586.0	1498.7	1473.4	1479.0
32.5°	4394.7	3980.6	3473.5	2865.0	2186.1	1738.2	1535.3	1445.2	1363.5	1315.6	1310.0
35°	4668.0	4332.7	3577.7	2659.4	1879.0	1541.0	1414.2	1301.5	1177.6	1124.0	1109.9
37.5°	5189.1	4729.9	3555.2	2349.5	1586.0	1394.5	1284.6	1146.6	1039.5	966.3	957.8
40°	5882.1	5194.8	3445.3	1972.0	1369.1	1264.9	1146.6	1014.2	881.8	819.8	814.1
42.5°	6724.5	5763.8	3245.3	1588.9	1152.2	1135.3	1028.2	876.1	757.8	712.7	715.5
45°	7409.0	6251.2	3042.5	1276.2	991.6	1008.5	915.6	771.9	690.2	653.6	653.6
47.5°	8017.5	6580.8	2822.8	1053.6	842.3	881.8	800.1	715.5	645.1	616.9	611.3
50°	8603.5	6916.0	2603.0	853.6	718.4	757.8	749.4	681.7	625.4	591.6	594.4
52.5°	8969.7	6969.6	2324.1	698.6	628.2	673.3	701.5	639.5	577.5	557.8	552.2
55°	8521.8	6279.4	1803.0	574.7	532.4	591.6	645.1	574.7	526.8	493.0	490.2
56°	7918.9	5614.5	1507.2	529.6	504.3	569.1	625.4	549.3	495.8	476.1	462.0
57.5°	6704.7	4594.7	1112.8	470.5	467.6	529.6	594.4	524.0	462.0	445.1	445.1
60°	4180.6	2586.1	673.3	394.4	405.7	470.5	535.3	467.6	411.3	411.3	419.8
62.5°	1904.4	1076.1	408.5	335.2	349.3	405.7	476.1	422.6	391.6	422.6	428.2
65°	647.9	464.8	295.8	267.6	276.1	335.2	408.5	428.2	425.4	445.1	456.4
67.5°	363.4	298.6	247.9	222.6	216.9	247.9	335.2	428.2	411.3	402.8	408.5
70°	307.1	253.5	219.7	197.2	188.7	200.0	259.2	324.0	290.2	281.7	276.1
72.5°	247.9	211.3	191.6	177.5	152.1	129.6	118.3	124.0	138.0	146.5	160.6
75°	174.7	160.6	160.6	143.7	109.9	81.7	64.8	53.5	36.6	25.4	28.2
77.5°	98.6	98.6	101.4	87.3	70.4	53.5	39.4	28.2	14.1	5.6	2.8
80°	67.6	73.2	78.9	70.4	59.2	47.9	33.8	19.7	8.5	0.0	0.0
82.5°	67.6	76.1	81.7	70.4	59.2	45.1	33.8	19.7	8.5	2.8	0.0
85°	14.1	16.9	19.7	22.5	33.8	33.8	25.4	16.9	8.5	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)