

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: P529569

Luminaire Tested: **GALN-SA4D-727-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529569
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-727-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 15284 lumens
Efficiency: N/A
Efficacy: 62.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

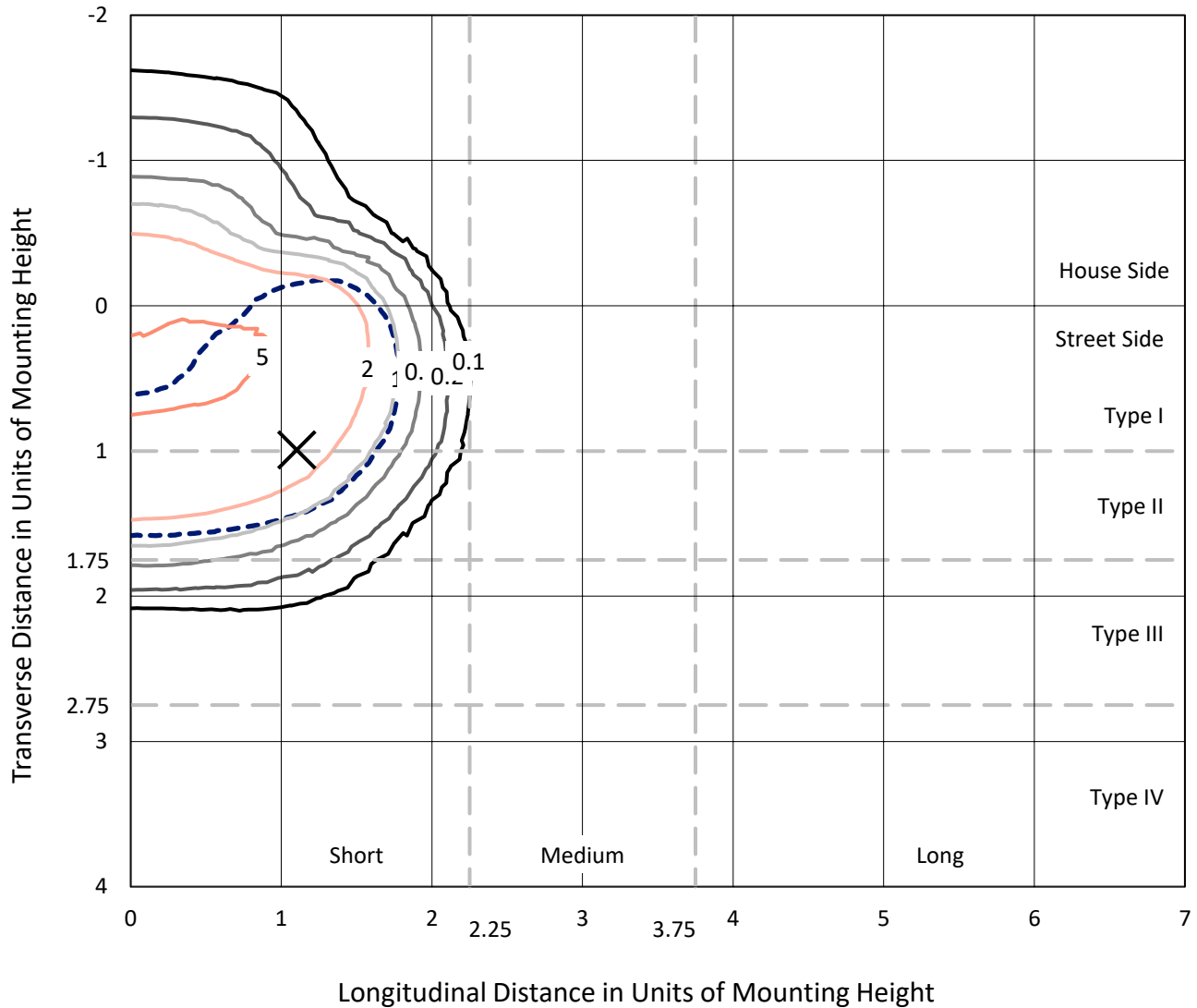
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529569
 CATALOG NUMBER: GALN-SA4D-727-U-T3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

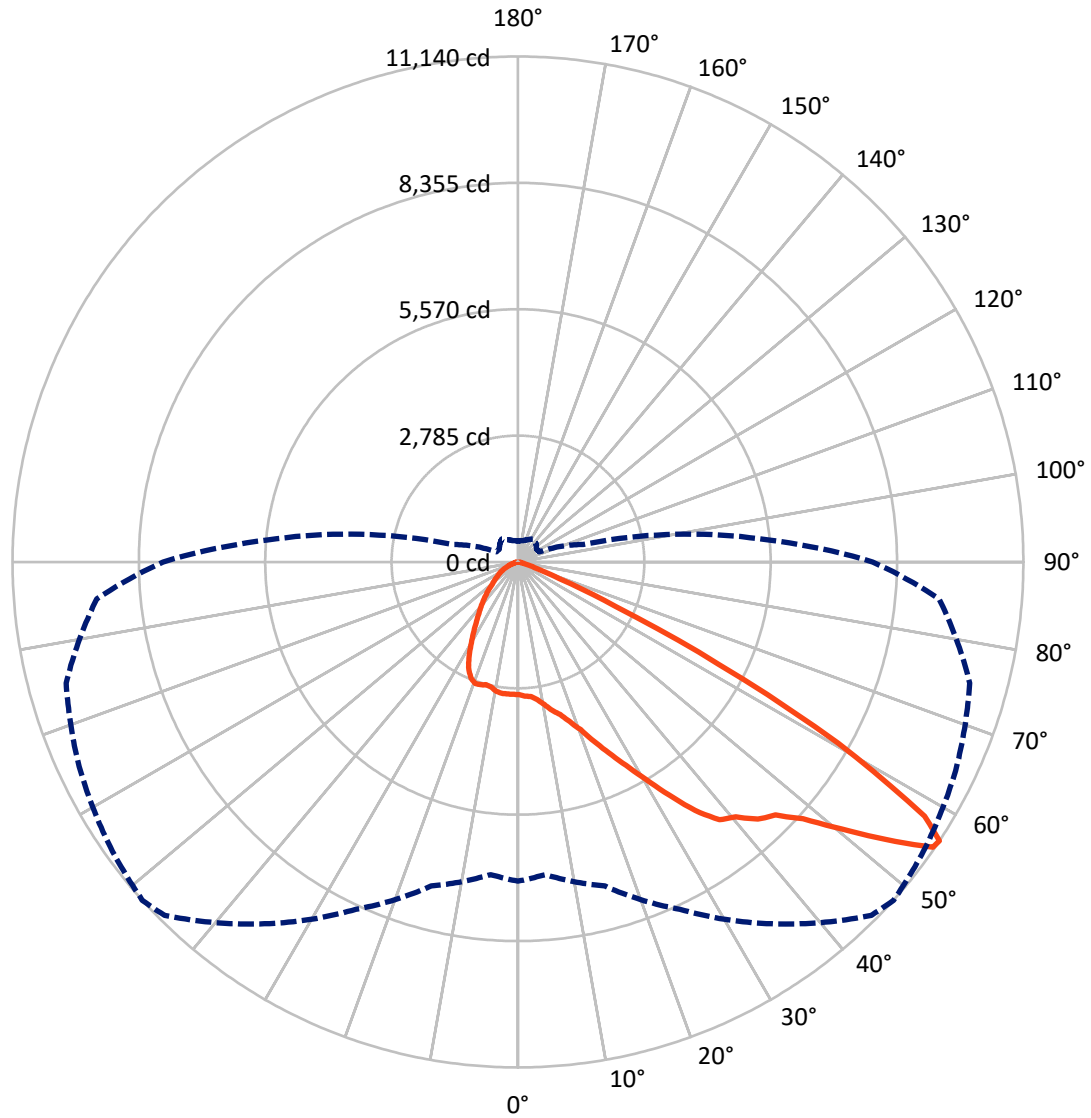
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P529569
CATALOG NUMBER: GALN-SA4D-727-U-T3-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P529569
 CATALOG NUMBER: GALN-SA4D-727-U-T3-GRSBK

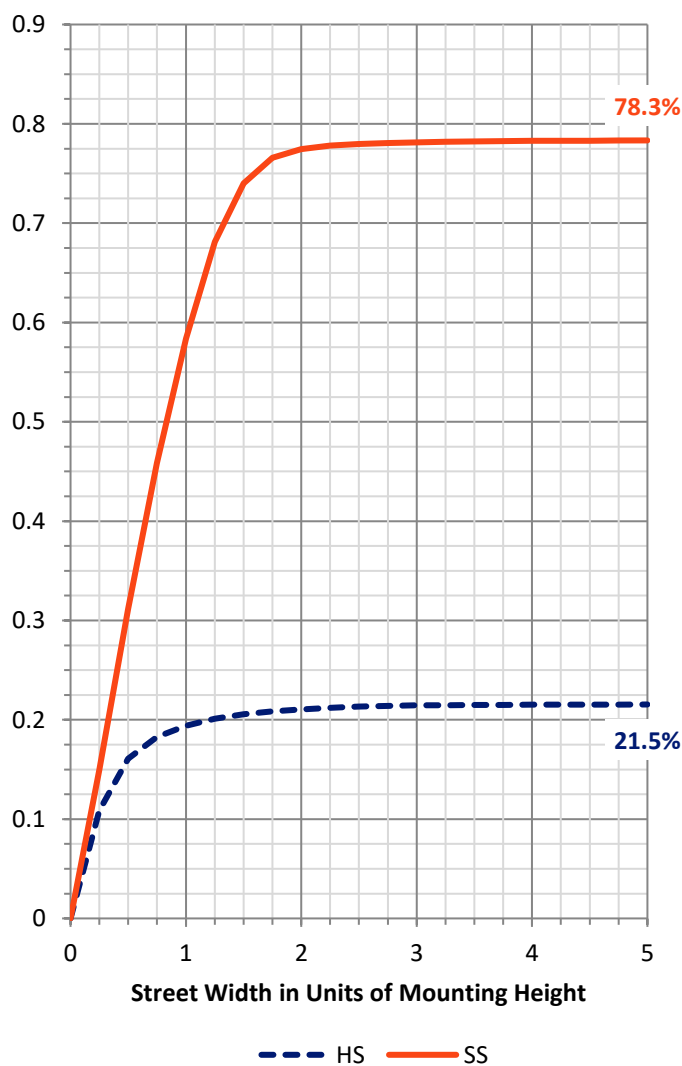
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3324.0	0.0	3324.0
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	11960.0	0.0	11960.0
	% Fixture	78.3	0.0	78.3
Total	Lumens	15284.0	0.0	15284.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.4	1.9
10°-20°	908.8	5.9
20°-30°	1648.4	10.8
30°-40°	2589.2	16.9
40°-50°	3777.2	24.7
50°-60°	4550.8	29.8
60°-70°	1332.4	8.7
70°-80°	169.0	1.1
80°-90°	23.7	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°	15284.0	100.0
0°-180°	15284.0	100.0

Coefficient of Utilization

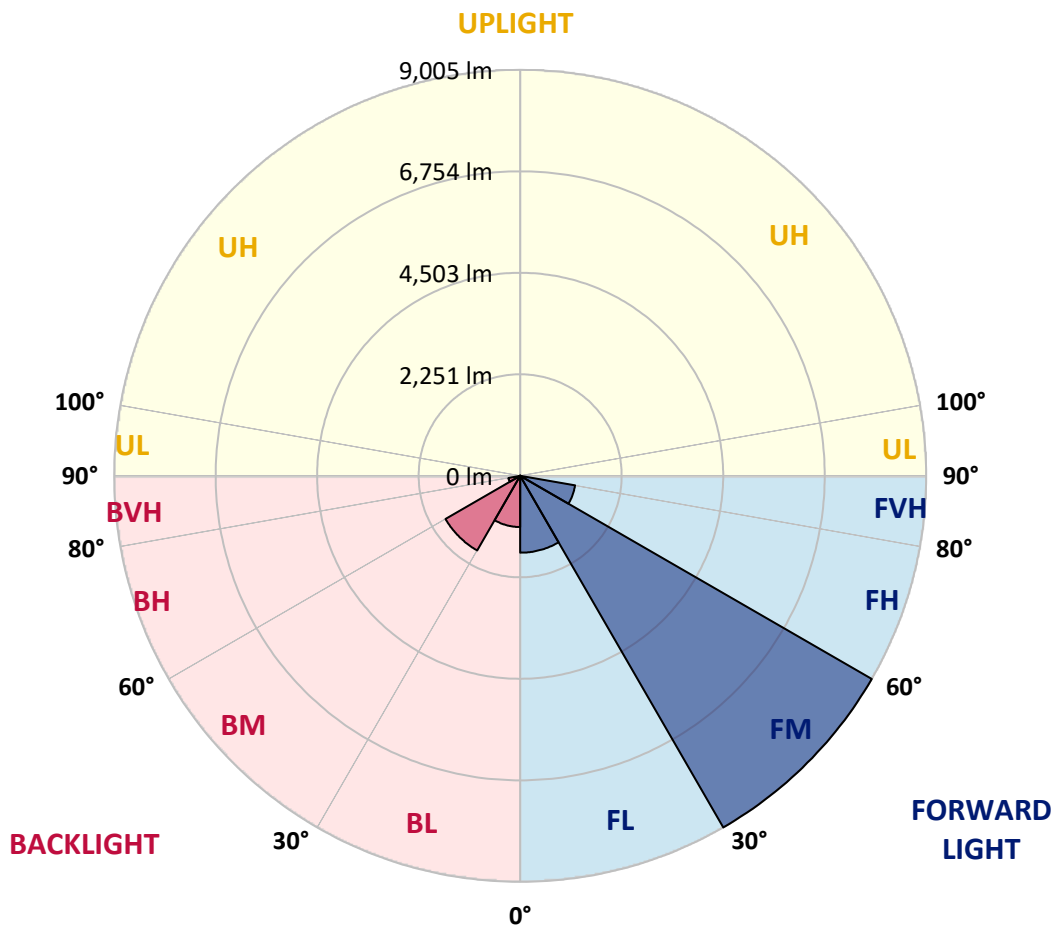


REPORT NUMBER: P529569
 CATALOG NUMBER: GALN-SA4D-727-U-T3-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1705.4	11.2			
FM (30°-60°)	9005.4	58.9			
FH (60°-80°)	1237.4	8.1			G1/1800
FVH (80°-90°)	11.9	0.1			G1/100
BL (0°-30°)	1136.1	7.4	B3/2500		
BM (30°-60°)	1911.9	12.5	B2/2500		
BH (60°-80°)	264.1	1.7	B1/500		G1/500
BVH (80°-90°)	11.8	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: P529569

CATALOG NUMBER: GALN-SA4D-727-U-T3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2919.3	2919.3	2919.3	2919.3	2919.3	2919.3	2919.3	2919.3	2919.3	2919.3	2919.3
2.5°	2972.1	2958.2	2958.2	2935.9	2961.0	2949.9	2958.2	2930.4	2958.2	2916.5	2949.9
5°	2986.0	2988.8	2977.7	2991.6	2991.6	3008.3	2980.5	3005.5	3019.4	2988.8	2974.9
7.5°	3058.4	3064.0	3061.2	3050.0	3072.3	3069.5	3066.7	3047.3	3052.8	3041.7	3025.0
10°	3200.3	3197.5	3211.5	3183.6	3166.9	3186.4	3192.0	3161.4	3139.1	3130.8	3077.9
12.5°	3406.3	3372.9	3353.4	3325.6	3333.9	3306.1	3356.2	3303.3	3292.2	3242.1	3189.2
15°	3573.2	3567.7	3570.4	3525.9	3475.8	3487.0	3487.0	3459.1	3442.4	3381.2	3306.1
17.5°	3915.5	3798.6	3823.7	3768.0	3726.3	3723.5	3698.5	3704.0	3659.5	3531.5	3417.4
20°	4182.7	4132.6	4093.6	3999.0	3935.0	3954.5	3943.4	3915.5	3901.6	3734.6	3573.2
22.5°	4422.0	4438.7	4374.7	4349.7	4260.6	4269.0	4291.2	4266.2	4160.4	3987.9	3748.6
25°	4758.7	4739.3	4653.0	4622.4	4538.9	4569.5	4655.8	4636.3	4569.5	4257.8	3884.9
27.5°	5156.7	5089.9	5106.6	4967.5	4886.8	4973.0	5076.0	5173.4	4984.2	4575.1	4046.3
30°	5437.8	5368.2	5362.6	5357.1	5337.6	5437.8	5557.4	5646.5	5493.4	4892.3	4313.5
32.5°	5576.9	5593.6	5640.9	5624.2	5794.0	5999.9	6125.1	6253.2	6061.1	5409.9	4666.9
35°	5947.0	5841.3	5947.0	5958.2	6133.5	6570.4	6729.0	7035.1	6987.8	6141.8	5098.3
37.5°	6164.1	6155.8	6169.7	6275.4	6445.2	6985.1	7210.5	7447.0	7358.0	6581.5	5635.4
40°	6523.1	6545.4	6542.6	6623.3	6809.7	7296.7	7388.6	7580.6	7588.9	7191.0	6425.7
42.5°	7099.1	7010.1	6951.7	7035.1	7296.7	7566.7	7750.3	7711.4	7986.9	7931.2	7441.4
45°	7616.8	7669.6	7583.4	7722.5	7817.1	7961.8	7956.3	8039.8	8390.4	8654.8	8206.7
47.5°	8101.0	8134.4	8176.1	8270.7	8476.7	8498.9	8451.6	8415.5	8899.7	9172.4	8799.5
50°	8390.4	8421.0	8615.8	8785.6	9169.6	9219.7	9247.5	9155.7	9484.1	9514.7	9358.9
52.5°	8312.5	8345.9	8618.6	9178.0	9790.2	10249.4	10165.9	10010.1	9990.6	10110.2	9876.5
55°	7622.3	7591.7	7967.4	8838.5	9985.0	11087.0	11098.2	10934.0	10619.5	10538.8	9798.6
56°	7035.1	6915.5	7394.1	8446.1	9734.5	11014.7	11139.9	10964.6	10669.6	10307.8	9317.1
57.5°	5763.4	5877.5	6353.3	7224.4	8869.1	10494.3	10566.6	10524.9	10302.3	9695.6	8198.4
60°	3178.1	3378.4	3798.6	4864.5	6314.4	8053.7	8112.1	8451.6	8493.4	7424.7	5640.9
62.5°	1349.7	1327.4	1764.4	2549.1	3595.5	4861.7	4970.2	5318.1	5382.1	4280.1	2830.2
65°	548.2	578.8	798.7	1282.9	1900.7	2215.2	2368.2	2482.3	2693.8	1767.1	1043.6
67.5°	361.8	359.0	470.3	731.9	1024.1	987.9	987.9	1043.6	965.7	720.8	450.8
70°	258.8	267.2	336.7	506.5	637.3	473.1	453.6	434.1	492.6	475.9	364.6
72.5°	169.8	180.9	225.4	303.3	331.2	258.8	258.8	311.7	406.3	384.0	297.8
75°	111.3	114.1	139.1	175.3	164.2	133.6	147.5	208.7	295.0	283.9	211.5
77.5°	75.1	77.9	94.6	114.1	91.8	75.1	80.7	105.7	144.7	144.7	111.3
80°	27.8	30.6	39.0	36.2	41.7	52.9	58.4	72.4	86.3	86.3	75.1
82.5°	0.0	2.8	8.3	19.5	30.6	41.7	47.3	55.7	64.0	72.4	69.6
85°	0.0	2.8	8.3	13.9	22.3	25.0	27.8	19.5	16.7	16.7	13.9
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: P529569

CATALOG NUMBER: GALN-SA4D-727-U-T3-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2919.3	2919.3	2919.3	2919.3	2919.3	2919.3	2919.3	2919.3	2919.3	2919.3	2919.3
2.5°	2919.3	2916.5	2916.5	2908.1	2924.8	2916.5	2922.0	2919.3	2883.1	2910.9	2891.4
5°	2949.9	2969.3	2938.7	2933.2	2910.9	2919.3	2919.3	2891.4	2916.5	2913.7	2908.1
7.5°	3027.8	2994.4	2961.0	2927.6	2922.0	2913.7	2883.1	2871.9	2891.4	2869.2	2902.6
10°	3061.2	3066.7	3016.7	2972.1	2930.4	2871.9	2830.2	2805.2	2774.5	2807.9	2827.4
12.5°	3214.2	3158.6	3072.3	3002.7	2860.8	2802.4	2760.6	2749.5	2802.4	2813.5	2794.0
15°	3267.1	3258.8	3147.4	2991.6	2844.1	2774.5	2782.9	2760.6	2766.2	2738.4	2743.9
17.5°	3375.6	3281.0	3150.2	2955.4	2841.3	2824.6	2774.5	2685.5	2635.4	2613.1	2632.6
20°	3495.3	3403.5	3214.2	2969.3	2866.4	2821.8	2657.7	2549.1	2446.2	2390.5	2393.3
22.5°	3601.1	3487.0	3186.4	2974.9	2888.6	2705.0	2507.4	2293.1	2165.1	2078.8	2081.6
25°	3729.1	3567.7	3197.5	2986.0	2830.2	2518.5	2234.7	2025.9	1872.9	1814.4	1833.9
27.5°	3801.4	3617.8	3258.8	3011.1	2677.1	2254.1	1948.0	1753.2	1664.2	1636.3	1633.6
30°	4018.5	3729.1	3333.9	2961.0	2421.1	1970.3	1686.4	1566.8	1480.5	1455.5	1461.0
32.5°	4341.3	3932.2	3431.3	2830.2	2159.5	1717.0	1516.7	1427.6	1346.9	1299.6	1294.0
35°	4611.2	4280.1	3534.3	2627.0	1856.2	1522.2	1397.0	1285.7	1163.2	1110.4	1096.5
37.5°	5126.1	4672.5	3512.0	2320.9	1566.8	1377.5	1269.0	1132.6	1026.9	954.5	946.2
40°	5810.7	5131.6	3403.5	1948.0	1352.5	1249.5	1132.6	1001.8	871.0	809.8	804.3
42.5°	6642.8	5693.8	3205.9	1569.5	1138.2	1121.5	1015.8	865.5	748.6	704.1	706.9
45°	7319.0	6175.2	3005.5	1260.6	979.6	996.3	904.4	762.5	681.8	645.6	645.6
47.5°	7920.1	6500.8	2788.5	1040.8	832.1	871.0	790.3	706.9	637.3	609.5	603.9
50°	8498.9	6832.0	2571.4	843.2	709.6	748.6	740.2	673.5	617.8	584.4	587.2
52.5°	8860.7	6884.9	2295.9	690.2	620.6	665.1	692.9	631.7	570.5	551.0	545.4
55°	8418.2	6203.1	1781.0	567.7	526.0	584.4	637.3	567.7	520.4	487.0	484.2
56°	7822.7	5546.3	1488.8	523.2	498.1	562.1	617.8	542.7	489.8	470.3	456.4
57.5°	6623.3	4538.9	1099.2	464.7	462.0	523.2	587.2	517.6	456.4	439.7	439.7
60°	4129.8	2554.7	665.1	389.6	400.7	464.7	528.7	462.0	406.3	406.3	414.7
62.5°	1881.2	1063.1	403.5	331.2	345.1	400.7	470.3	417.4	386.8	417.4	423.0
65°	640.1	459.2	292.2	264.4	272.7	331.2	403.5	423.0	420.2	439.7	450.8
67.5°	359.0	295.0	244.9	219.8	214.3	244.9	331.2	423.0	406.3	398.0	403.5
70°	303.3	250.5	217.1	194.8	186.5	197.6	256.0	320.0	286.6	278.3	272.7
72.5°	244.9	208.7	189.2	175.3	150.3	128.0	116.9	122.4	136.4	144.7	158.6
75°	172.5	158.6	158.6	141.9	108.5	80.7	64.0	52.9	36.2	25.0	27.8
77.5°	97.4	97.4	100.2	86.3	69.6	52.9	39.0	27.8	13.9	5.6	2.8
80°	66.8	72.4	77.9	69.6	58.4	47.3	33.4	19.5	8.3	0.0	0.0
82.5°	66.8	75.1	80.7	69.6	58.4	44.5	33.4	19.5	8.3	2.8	0.0
85°	13.9	16.7	19.5	22.3	33.4	33.4	25.0	16.7	8.3	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)