

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: P529725

Luminaire Tested: **GALN-SA4D-827-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529725
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-827-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 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: 13434 lumens
Efficiency: N/A
Efficacy: 54.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

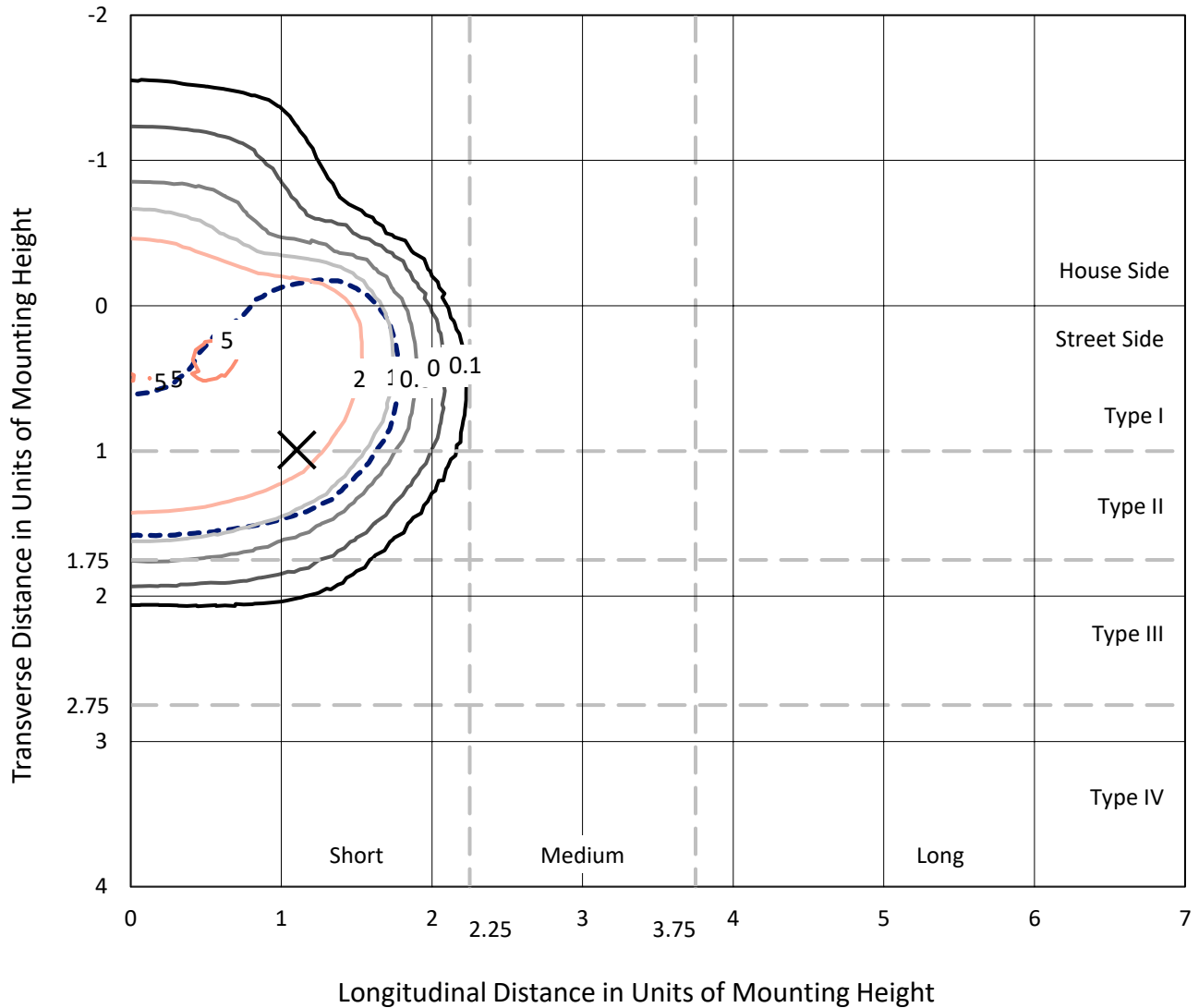
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

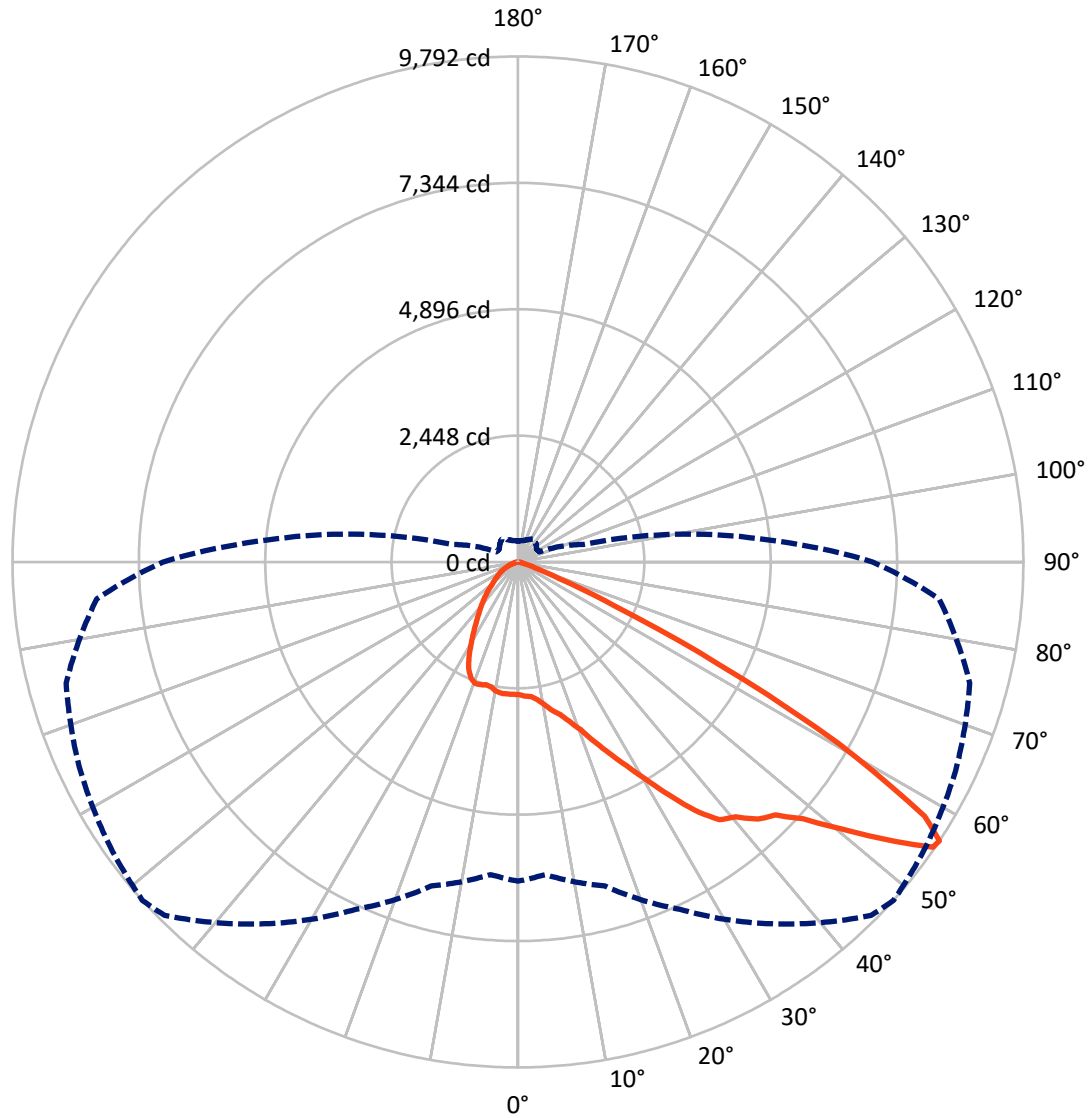
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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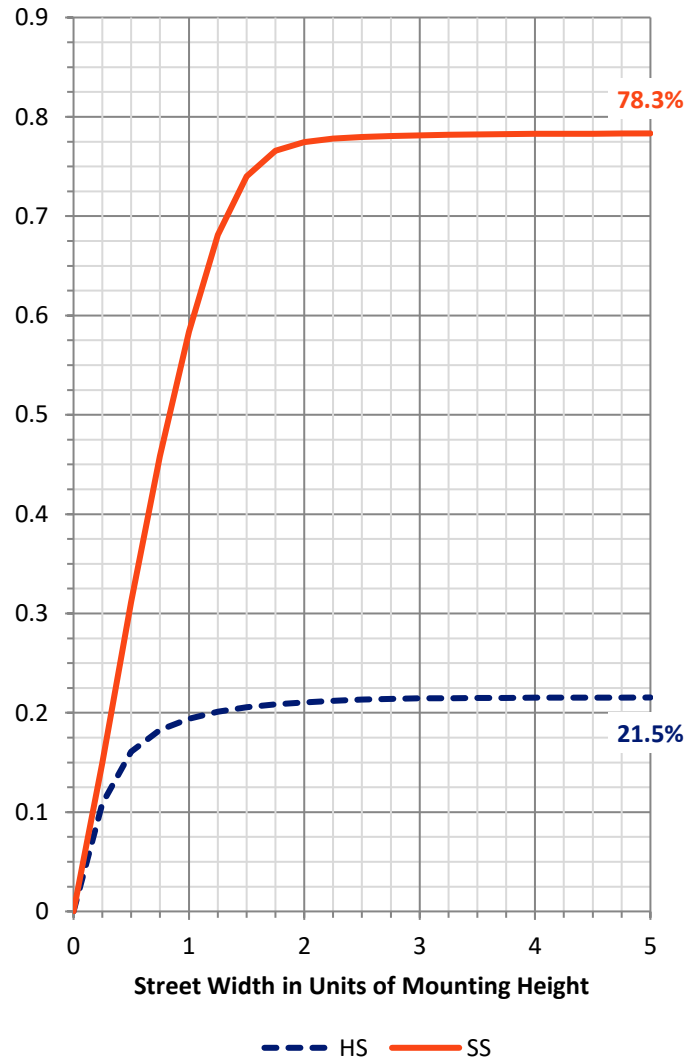
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2921.6	0.0	2921.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	10512.3	0.0	10512.3
	% Fixture	78.3	0.0	78.3
Total	Lumens	13434.0	0.0	13434.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.9	1.9
10°-20°	798.8	5.9
20°-30°	1448.8	10.8
30°-40°	2275.8	16.9
40°-50°	3320.0	24.7
50°-60°	4000.0	29.8
60°-70°	1171.2	8.7
70°-80°	148.6	1.1
80°-90°	20.8	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°	13434.0	100.0
0°-180°	13434.0	100.0

Coefficient of Utilization

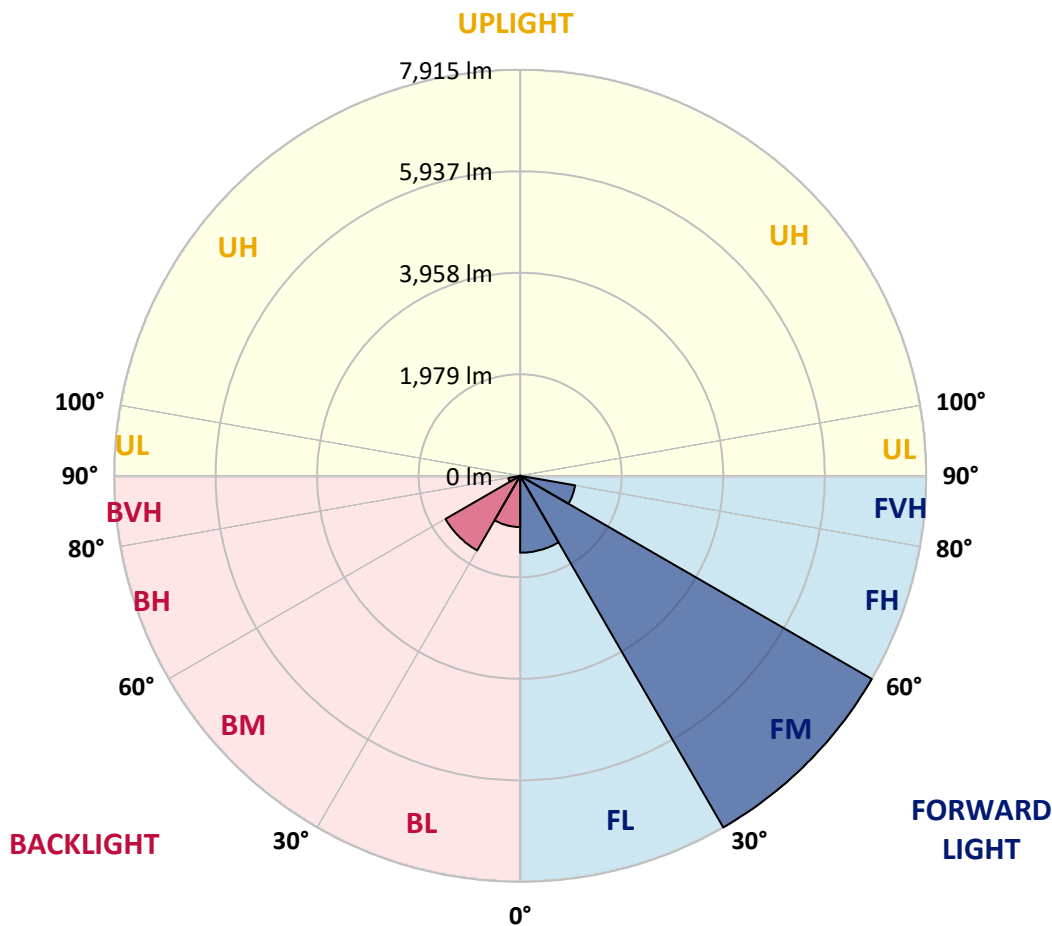


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1499.0	11.2			
FM (30°-60°)	7915.3	58.9			
FH (60°-80°)	1087.6	8.1			G1/1800
FVH (80°-90°)	10.5	0.1			G1/100
BL (0°-30°)	998.6	7.4	B2/1000		
BM (30°-60°)	1680.5	12.5	B2/2500		
BH (60°-80°)	232.1	1.7	B1/500		G1/500
BVH (80°-90°)	10.4	0.1			G1/100
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°	48°	55°	65°	75°	85°
0°	2565.9	2565.9	2565.9	2565.9	2565.9	2565.9	2565.9	2565.9	2565.9	2565.9	2565.9
2.5°	2612.4	2600.1	2600.1	2580.6	2602.6	2592.8	2600.1	2575.7	2600.1	2563.5	2592.8
5°	2624.6	2627.1	2617.3	2629.5	2629.5	2644.2	2619.7	2641.7	2654.0	2627.1	2614.8
7.5°	2688.2	2693.1	2690.6	2680.9	2700.4	2698.0	2695.5	2678.4	2683.3	2673.5	2658.8
10°	2813.0	2810.5	2822.7	2798.3	2783.6	2800.7	2805.6	2778.7	2759.1	2751.8	2705.3
12.5°	2994.0	2964.6	2947.5	2923.0	2930.4	2905.9	2949.9	2903.5	2893.7	2849.6	2803.2
15°	3140.7	3135.8	3138.3	3099.1	3055.1	3064.9	3064.9	3040.4	3025.8	2971.9	2905.9
17.5°	3441.6	3338.8	3360.9	3311.9	3275.3	3272.8	3250.8	3255.7	3216.5	3104.0	3003.7
20°	3676.4	3632.4	3598.1	3515.0	3458.7	3475.8	3466.0	3441.6	3429.4	3282.6	3140.7
22.5°	3886.8	3901.4	3845.2	3823.2	3744.9	3752.2	3771.8	3749.8	3656.8	3505.2	3294.8
25°	4182.7	4165.6	4089.8	4062.9	3989.5	4016.4	4092.2	4075.1	4016.4	3742.4	3414.7
27.5°	4532.5	4473.8	4488.5	4366.2	4295.3	4371.1	4461.6	4547.2	4380.9	4021.3	3556.5
30°	4779.6	4718.4	4713.5	4708.6	4691.5	4779.6	4884.7	4963.0	4828.5	4300.1	3791.4
32.5°	4901.9	4916.5	4958.1	4943.5	5092.7	5273.7	5383.7	5496.3	5327.5	4755.1	4102.0
35°	5227.2	5134.2	5227.2	5237.0	5391.1	5775.1	5914.5	6183.6	6142.0	5398.4	4481.2
37.5°	5418.0	5410.6	5422.9	5515.8	5665.0	6139.6	6337.7	6545.6	6467.3	5784.9	4953.2
40°	5733.5	5753.1	5750.6	5821.6	5985.5	6413.5	6494.2	6663.0	6670.4	6320.6	5647.9
42.5°	6239.9	6161.6	6110.2	6183.6	6413.5	6650.8	6812.2	6778.0	7020.1	6971.2	6540.7
45°	6694.8	6741.3	6665.5	6787.8	6870.9	6998.1	6993.2	7066.6	7374.8	7607.2	7213.4
47.5°	7120.4	7149.8	7186.5	7269.6	7450.6	7470.2	7428.6	7396.8	7822.4	8062.2	7734.4
50°	7374.8	7401.7	7573.0	7722.2	8059.7	8103.7	8128.2	8047.5	8336.1	8363.0	8226.0
52.5°	7306.3	7335.7	7575.4	8067.1	8605.2	9008.8	8935.4	8798.4	8781.3	8886.5	8681.0
55°	6699.7	6672.8	7003.0	7768.6	8776.4	9745.0	9754.8	9610.5	9334.1	9263.2	8612.5
56°	6183.6	6078.4	6499.1	7423.7	8556.3	9681.4	9791.5	9637.4	9378.1	9060.1	8189.4
57.5°	5065.8	5166.0	5584.3	6349.9	7795.5	9224.0	9287.6	9250.9	9055.3	8522.0	7206.0
60°	2793.4	2969.5	3338.8	4275.7	5550.1	7078.9	7130.2	7428.6	7465.3	6526.0	4958.1
62.5°	1186.3	1166.8	1550.8	2240.6	3160.3	4273.2	4368.6	4674.4	4730.6	3762.0	2487.6
65°	481.9	508.8	702.0	1127.6	1670.6	1947.1	2081.6	2181.9	2367.8	1553.2	917.3
67.5°	318.0	315.5	413.4	643.3	900.1	868.3	868.3	917.3	848.8	633.5	396.3
70°	227.5	234.8	296.0	445.2	560.1	415.8	398.7	381.6	432.9	418.3	320.4
72.5°	149.2	159.0	198.1	266.6	291.1	227.5	227.5	274.0	357.1	337.6	261.7
75°	97.8	100.3	122.3	154.1	144.3	117.4	129.6	183.5	259.3	249.5	185.9
77.5°	66.0	68.5	83.2	100.3	80.7	66.0	70.9	92.9	127.2	127.2	97.8
80°	24.5	26.9	34.2	31.8	36.7	46.5	51.4	63.6	75.8	75.8	66.0
82.5°	0.0	2.4	7.3	17.1	26.9	36.7	41.6	48.9	56.3	63.6	61.2
85°	0.0	2.4	7.3	12.2	19.6	22.0	24.5	17.1	14.7	14.7	12.2
87.5°	0.0	0.0	2.4	2.4	2.4	2.4	2.4	2.4	4.9	2.4	2.4
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°	2565.9	2565.9	2565.9	2565.9	2565.9	2565.9	2565.9	2565.9	2565.9	2565.9	2565.9
2.5°	2565.9	2563.5	2563.5	2556.1	2570.8	2563.5	2568.3	2565.9	2534.1	2558.6	2541.4
5°	2592.8	2609.9	2583.0	2578.1	2558.6	2565.9	2565.9	2541.4	2563.5	2561.0	2556.1
7.5°	2661.3	2631.9	2602.6	2573.2	2568.3	2561.0	2534.1	2524.3	2541.4	2521.9	2551.2
10°	2690.6	2695.5	2651.5	2612.4	2575.7	2524.3	2487.6	2465.6	2438.7	2468.1	2485.2
12.5°	2825.2	2776.3	2700.4	2639.3	2514.5	2463.2	2426.5	2416.7	2463.2	2473.0	2455.8
15°	2871.7	2864.3	2766.5	2629.5	2499.9	2438.7	2446.0	2426.5	2431.4	2406.9	2411.8
17.5°	2967.1	2883.9	2768.9	2597.7	2497.4	2482.7	2438.7	2360.4	2316.4	2296.8	2314.0
20°	3072.2	2991.5	2825.2	2609.9	2519.4	2480.3	2336.0	2240.6	2150.1	2101.2	2103.6
22.5°	3165.2	3064.9	2800.7	2614.8	2539.0	2377.6	2203.9	2015.5	1903.0	1827.2	1829.6
25°	3277.7	3135.8	2810.5	2624.6	2487.6	2213.7	1964.2	1780.7	1646.2	1594.8	1611.9
27.5°	3341.3	3179.9	2864.3	2646.6	2353.1	1981.3	1712.2	1541.0	1462.7	1438.3	1435.8
30°	3532.1	3277.7	2930.4	2602.6	2128.1	1731.8	1482.3	1377.1	1301.3	1279.3	1284.2
32.5°	3815.8	3456.3	3016.0	2487.6	1898.1	1509.2	1333.1	1254.8	1183.9	1142.3	1137.4
35°	4053.1	3762.0	3106.5	2309.1	1631.5	1338.0	1227.9	1130.1	1022.4	976.0	963.7
37.5°	4505.6	4106.9	3086.9	2040.0	1377.1	1210.8	1115.4	995.5	902.6	839.0	831.7
40°	5107.3	4510.5	2991.5	1712.2	1188.8	1098.3	995.5	880.6	765.6	711.8	706.9
42.5°	5838.7	5004.6	2817.8	1379.6	1000.4	985.8	892.8	760.7	658.0	618.8	621.3
45°	6433.1	5427.8	2641.7	1108.1	861.0	875.7	795.0	670.2	599.3	567.5	567.5
47.5°	6961.4	5714.0	2450.9	914.8	731.4	765.6	694.7	621.3	560.1	535.7	530.8
50°	7470.2	6005.0	2260.1	741.2	623.7	658.0	650.6	591.9	543.0	513.7	516.1
52.5°	7788.2	6051.5	2018.0	606.6	545.5	584.6	609.1	555.3	501.4	484.3	479.4
55°	7399.3	5452.2	1565.5	499.0	462.3	513.7	560.1	499.0	457.4	428.1	425.6
56°	6875.8	4875.0	1308.6	459.9	437.8	494.1	543.0	477.0	430.5	413.4	401.2
57.5°	5821.6	3989.5	966.2	408.5	406.0	459.9	516.1	455.0	401.2	386.5	386.5
60°	3629.9	2245.5	584.6	342.4	352.2	408.5	464.7	406.0	357.1	357.1	364.5
62.5°	1653.5	934.4	354.7	291.1	303.3	352.2	413.4	366.9	340.0	366.9	371.8
65°	562.6	403.6	256.8	232.4	239.7	291.1	354.7	371.8	369.4	386.5	396.3
67.5°	315.5	259.3	215.3	193.2	188.3	215.3	291.1	371.8	357.1	349.8	354.7
70°	266.6	220.1	190.8	171.2	163.9	173.7	225.0	281.3	251.9	244.6	239.7
72.5°	215.3	183.5	166.3	154.1	132.1	112.5	102.7	107.6	119.9	127.2	139.4
75°	151.7	139.4	139.4	124.7	95.4	70.9	56.3	46.5	31.8	22.0	24.5
77.5°	85.6	85.6	88.1	75.8	61.2	46.5	34.2	24.5	12.2	4.9	2.4
80°	58.7	63.6	68.5	61.2	51.4	41.6	29.4	17.1	7.3	0.0	0.0
82.5°	58.7	66.0	70.9	61.2	51.4	39.1	29.4	17.1	7.3	2.4	0.0
85°	12.2	14.7	17.1	19.6	29.4	29.4	22.0	14.7	7.3	2.4	0.0
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	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)