

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: STREETWORKS

Report Number: P268441

Luminaire Tested: **GAN-AF-04-LED-U-SL4-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268441
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-SL4-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19823 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

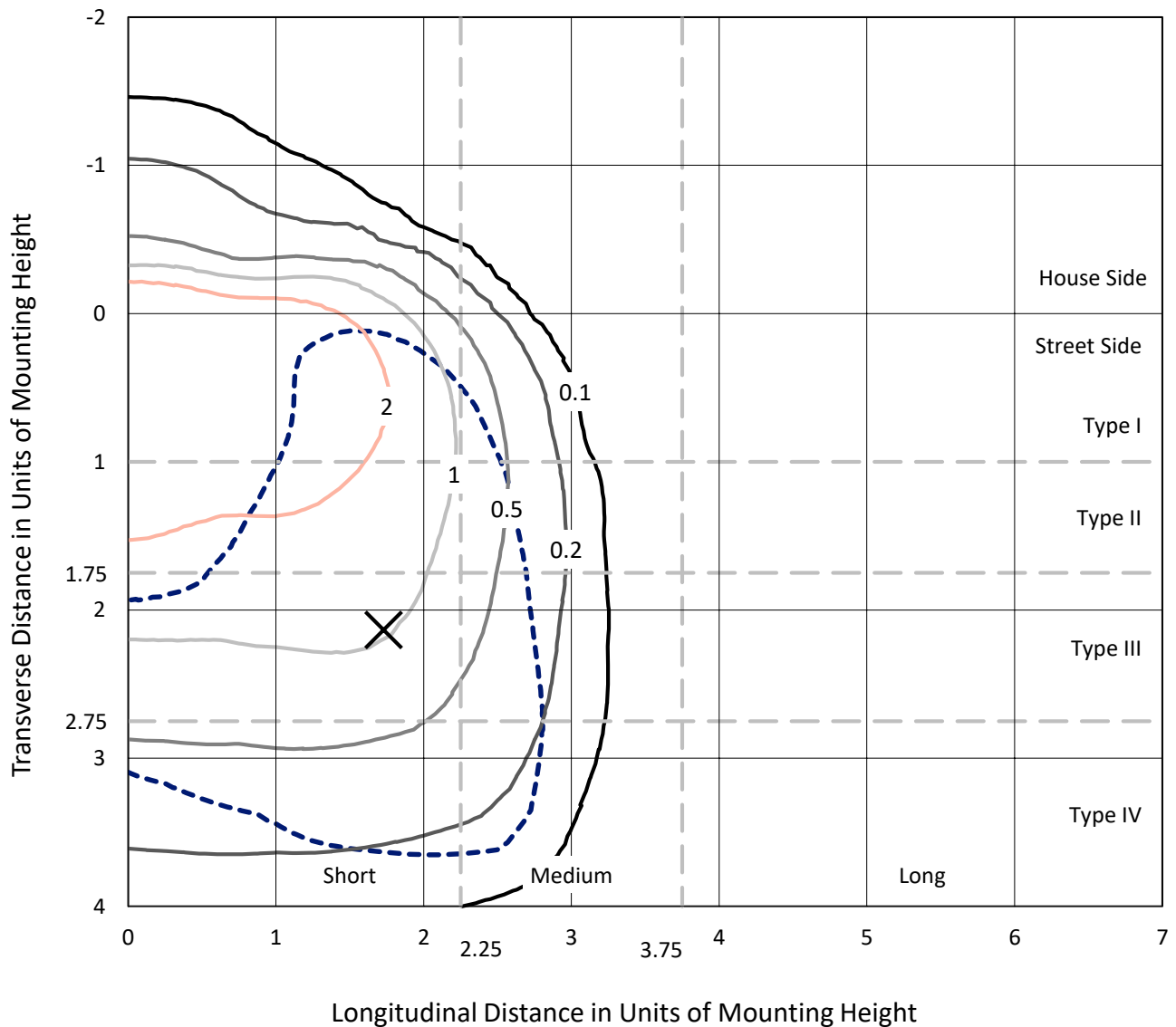
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P268441
 CATALOG NUMBER: GAN-AF-04-LED-U-SL4-7027

Iso-Footcandle Lines of Horizontal Illumination

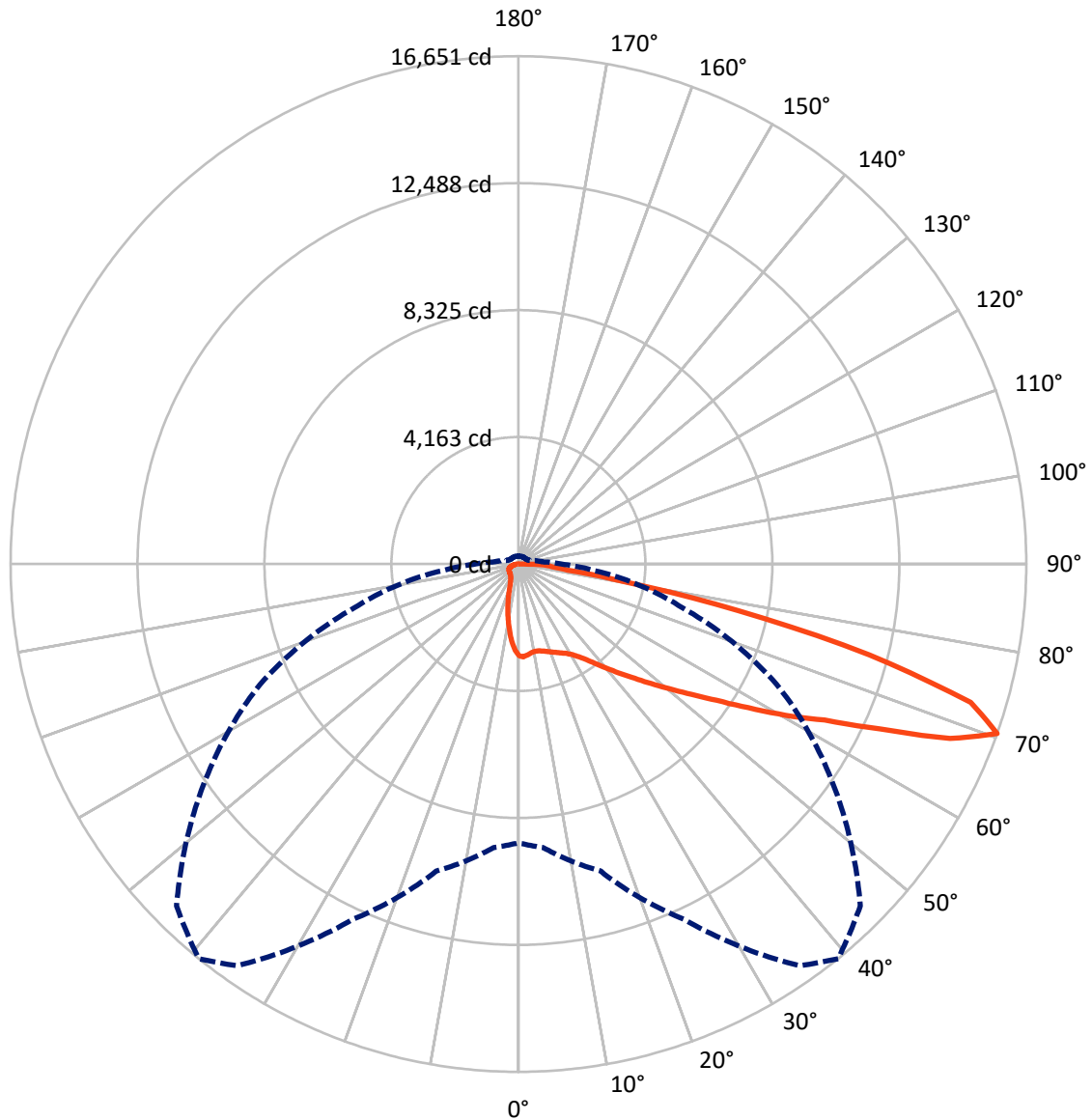
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P268441
CATALOG NUMBER: GAN-AF-04-LED-U-SL4-7027

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2254.5	0.0	2254.5
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	17568.4	0.0	17568.4
	% Fixture	88.6	0.0	88.6
Total	Lumens	19823.0	0.0	19823.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.3	1.3
10°-20°	645.6	3.3
20°-30°	1005.2	5.1
30°-40°	1565.9	7.9
40°-50°	2628.8	13.3
50°-60°	4176.1	21.1
60°-70°	5570.5	28.1
70°-80°	3363.9	17.0
80°-90°	608.8	3.1
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°	19823.0	100.0
0°-180°	19823.0	100.0



REPORT NUMBER: P268441

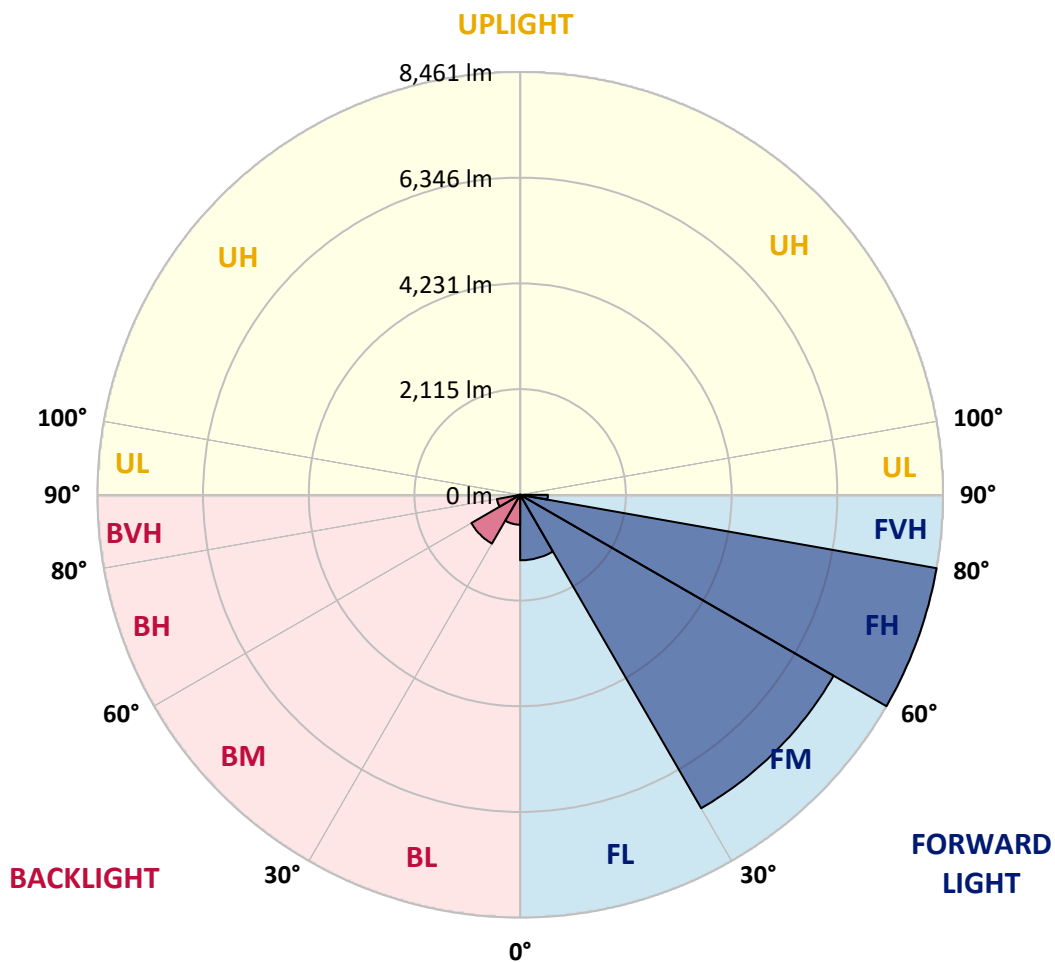
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1310.9	6.6			
FM	(30°-60°)	7242.6	36.5			
FH	(60°-80°)	8461.0	42.7			G4/12000
FVH	(80°-90°)	553.9	2.8			G4/750
BL	(0°-30°)	598.1	3.0	B2/1000		
BM	(30°-60°)	1128.3	5.7	B2/2500		
BH	(60°-80°)	473.3	2.4	B1/500		G1/500
BVH	(80°-90°)	54.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





REPORT NUMBER: P268441

CATALOG NUMBER: GAN-AF-04-LED-U-SL4-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3009.4	3009.4	3009.4	3009.4	3009.4	3009.4	3009.4	3009.4	3009.4	3009.4	3009.4
2.5°	3067.9	3066.9	3058.8	3052.8	3047.7	3045.8	3049.7	3034.7	3021.4	3005.4	2988.3
5°	3044.7	3043.6	3030.6	3018.6	3006.4	3002.3	3001.3	2974.2	2957.9	2933.9	2901.5
7.5°	3019.6	3014.5	2997.4	2977.3	2956.1	2945.9	2935.9	2900.5	2882.4	2858.2	2820.9
10°	2993.3	2987.3	2971.1	2951.0	2930.8	2915.7	2898.7	2864.2	2845.1	2827.1	2783.7
12.5°	2966.2	2961.1	2957.0	2948.0	2933.9	2920.7	2907.6	2878.3	2858.2	2837.0	2786.7
15°	2962.2	2960.1	2969.1	2975.1	2967.1	2959.0	2945.0	2919.8	2898.7	2877.5	2812.0
17.5°	2994.3	2993.3	3016.5	3032.6	3028.5	3014.5	2995.3	2967.1	2949.9	2931.8	2850.2
20°	3064.8	3069.9	3098.2	3119.3	3099.2	3079.0	3047.7	3008.5	2999.4	2991.3	2889.5
22.5°	3197.8	3202.9	3223.1	3231.2	3178.7	3149.5	3106.2	3055.9	3049.7	3055.9	2936.9
25°	3405.6	3400.4	3397.5	3367.2	3271.4	3226.2	3170.7	3118.2	3121.3	3148.5	3003.5
27.5°	3680.6	3653.4	3611.1	3520.4	3368.3	3317.8	3250.2	3201.9	3221.1	3273.6	3103.1
30°	3965.8	3935.7	3837.9	3689.8	3495.2	3439.8	3364.2	3309.7	3360.2	3442.8	3236.2
32.5°	4229.9	4225.8	4082.7	3892.4	3670.6	3622.2	3546.6	3485.2	3566.8	3692.8	3435.7
35°	4518.1	4527.3	4355.9	4127.2	3907.4	3857.1	3802.6	3756.3	3865.0	4038.4	3725.0
37.5°	4826.7	4844.6	4642.1	4384.2	4177.6	4156.4	4124.1	4103.9	4272.2	4512.1	4129.1
40°	5238.7	5220.7	4939.5	4674.4	4509.1	4508.1	4498.1	4522.2	4802.3	5130.9	4648.2
42.5°	5680.3	5626.9	5254.9	4985.9	4872.9	4907.3	4927.4	5026.1	5440.3	5882.8	5281.1
45°	6155.9	6036.0	5582.4	5315.5	5277.2	5349.6	5418.1	5632.8	6191.2	6738.5	5974.5
47.5°	6535.9	6419.9	5921.1	5661.1	5744.8	5854.7	5986.7	6326.3	7031.8	7622.4	6658.9
50°	6835.3	6759.7	6262.8	6064.2	6259.7	6429.1	6644.8	7111.4	7906.6	8483.1	7292.8
52.5°	7125.4	7069.0	6607.5	6477.5	6864.5	7098.2	7391.6	7954.0	8803.6	9329.6	7825.9
55°	7387.5	7347.1	6978.4	6992.4	7575.9	7880.4	8249.2	8913.4	9781.1	10084.6	8277.4
57.5°	7682.8	7631.5	7401.7	7638.5	8490.2	8885.1	9364.9	9991.8	10698.4	10755.8	8621.2
60°	7980.2	7935.7	7871.3	8384.3	9651.2	10066.3	10520.9	11036.9	11628.6	11276.9	8601.0
62.5°	8238.1	8243.1	8357.1	9167.5	10788.0	11268.8	11823.0	12333.0	12470.1	11367.5	7965.0
65°	8675.7	8755.2	9094.8	10276.0	12388.4	13031.5	13711.8	13630.2	12702.9	10520.0	6601.5
67.5°	9195.6	9335.6	10024.0	11753.6	14411.1	15264.9	15527.9	13923.4	11770.8	8551.5	4705.6
70°	9143.2	9335.6	10425.2	12855.1	16078.3	16650.7	15852.5	12601.2	9346.8	5586.5	2499.4
72.5°	8119.2	8394.4	9607.8	12350.2	15553.2	15502.7	13762.2	9394.1	5553.2	2243.4	976.5
75°	6188.2	6466.4	7510.5	9757.0	12292.8	11869.5	9765.0	5189.4	2107.5	890.8	615.8
77.5°	3559.8	3775.3	4581.6	5983.6	7798.7	7364.3	5435.4	2307.9	1026.0	620.8	480.8
80°	1987.5	2107.5	2597.2	3035.6	3821.7	3503.3	2431.9	1434.1	766.0	450.5	370.9
82.5°	1571.2	1678.0	2100.3	1914.8	1745.5	1610.5	1396.9	1276.9	611.7	284.3	221.7
85°	1372.7	1474.5	1777.8	1507.7	1192.3	1093.4	1134.7	1256.8	475.7	171.3	189.5
87.5°	1271.9	1408.0	1584.3	1162.0	928.2	822.4	1047.2	1377.7	153.3	106.8	76.5
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: P268441

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3009.4	3009.4	3009.4	3009.4	3009.4	3009.4	3009.4	3009.4	3009.4	3009.4	3009.4
2.5°	2973.2	2957.0	2930.8	2907.6	2871.3	2852.2	2831.1	2815.9	2803.8	2793.8	2809.9
5°	2881.5	2851.2	2795.7	2736.2	2665.8	2610.4	2563.9	2520.6	2490.5	2470.2	2484.4
7.5°	2794.7	2745.4	2658.8	2550.8	2429.9	2327.1	2242.4	2167.9	2116.4	2083.2	2096.4
10°	2745.4	2683.9	2549.8	2380.6	2202.1	2041.8	1908.9	1793.9	1714.3	1669.1	1676.1
12.5°	2733.4	2653.7	2468.3	2235.4	1991.5	1768.8	1581.3	1422.0	1310.2	1251.8	1253.8
15°	2742.3	2640.6	2391.6	2096.4	1787.9	1506.7	1272.9	1079.5	949.4	882.9	881.9
17.5°	2757.4	2630.4	2311.0	1946.2	1581.3	1254.8	993.7	804.3	689.4	636.0	631.9
20°	2773.5	2614.3	2220.3	1783.9	1366.6	1021.0	778.0	629.9	557.4	528.2	526.0
22.5°	2796.8	2600.2	2126.6	1612.5	1155.9	831.6	640.0	540.2	502.0	486.8	484.7
25°	2834.1	2593.1	2026.8	1434.1	966.5	695.4	557.4	495.9	473.6	463.6	462.5
27.5°	2896.6	2603.3	1933.1	1260.9	812.3	603.8	511.0	473.6	457.5	448.6	447.4
30°	2977.3	2634.5	1834.2	1096.6	692.5	541.1	482.7	458.6	445.5	436.3	436.3
32.5°	3111.2	2686.9	1730.5	954.4	606.7	497.9	461.5	445.5	434.4	427.4	426.3
35°	3308.7	2785.7	1633.7	836.5	545.2	466.6	443.5	431.4	423.3	419.2	419.2
37.5°	3596.1	2941.9	1548.0	751.8	507.9	445.5	426.3	417.3	412.2	412.2	412.2
40°	3981.9	3157.6	1478.5	695.4	486.8	430.4	413.2	406.2	403.1	404.1	404.1
42.5°	4458.6	3437.8	1432.2	656.1	476.7	421.2	404.1	398.0	395.1	394.0	395.1
45°	5001.9	3756.3	1427.0	626.8	466.6	415.2	398.0	392.1	386.0	382.0	382.0
47.5°	5530.1	4079.7	1468.4	616.7	455.5	408.2	393.1	387.0	377.9	368.8	368.8
50°	5996.6	4355.0	1523.9	620.8	451.5	398.0	385.1	382.0	367.9	357.7	356.7
52.5°	6367.5	4566.5	1569.2	632.9	455.5	391.0	375.0	375.9	360.8	349.7	348.7
55°	6665.0	4705.6	1557.1	645.1	464.7	387.0	365.9	367.9	355.8	344.7	344.7
57.5°	6794.9	4654.3	1423.0	634.9	471.7	388.0	358.9	366.9	356.7	346.7	346.7
60°	6515.8	4197.7	1172.1	590.5	462.5	385.1	355.8	370.9	369.9	359.9	358.9
62.5°	5671.2	3380.3	909.1	525.1	431.4	369.9	347.7	369.9	381.1	377.9	376.8
65°	4371.1	2407.7	694.4	454.5	389.1	344.7	326.5	346.7	361.7	365.9	364.8
67.5°	2837.0	1475.5	535.2	388.0	341.6	315.5	299.3	308.4	311.4	311.4	309.3
70°	1394.9	794.2	426.3	326.5	293.2	284.3	275.2	270.1	265.1	261.0	261.0
72.5°	688.3	519.0	350.7	276.1	253.0	248.9	246.9	240.8	236.9	231.9	229.7
75°	509.0	422.4	298.3	232.8	217.7	213.6	217.7	212.7	211.6	207.6	205.6
77.5°	418.3	359.9	257.1	199.6	186.5	179.4	185.4	186.5	187.4	181.4	179.4
80°	339.6	304.3	214.7	165.3	153.3	148.1	152.3	160.3	162.2	153.3	149.2
82.5°	244.9	248.9	173.4	128.9	118.9	115.0	123.0	132.9	135.0	122.0	118.9
85°	205.6	207.6	132.9	91.6	81.7	75.5	88.8	98.8	105.8	92.7	89.7
87.5°	85.7	122.0	76.5	51.5	45.4	39.3	47.4	52.5	63.5	58.5	57.4
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)