

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: P324017

Luminaire Tested: **GAN-SA3D-830-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324017
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15278 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

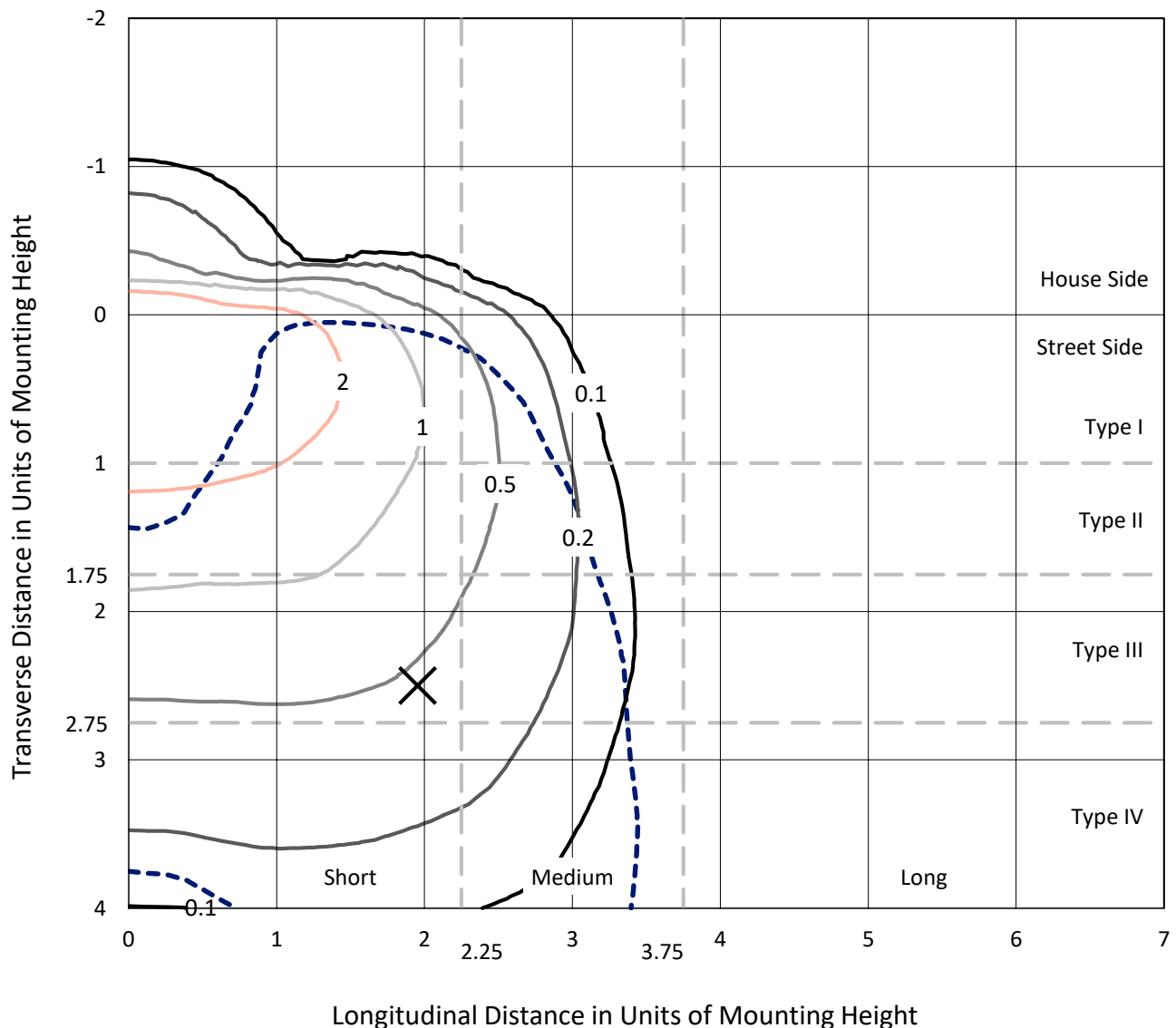
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

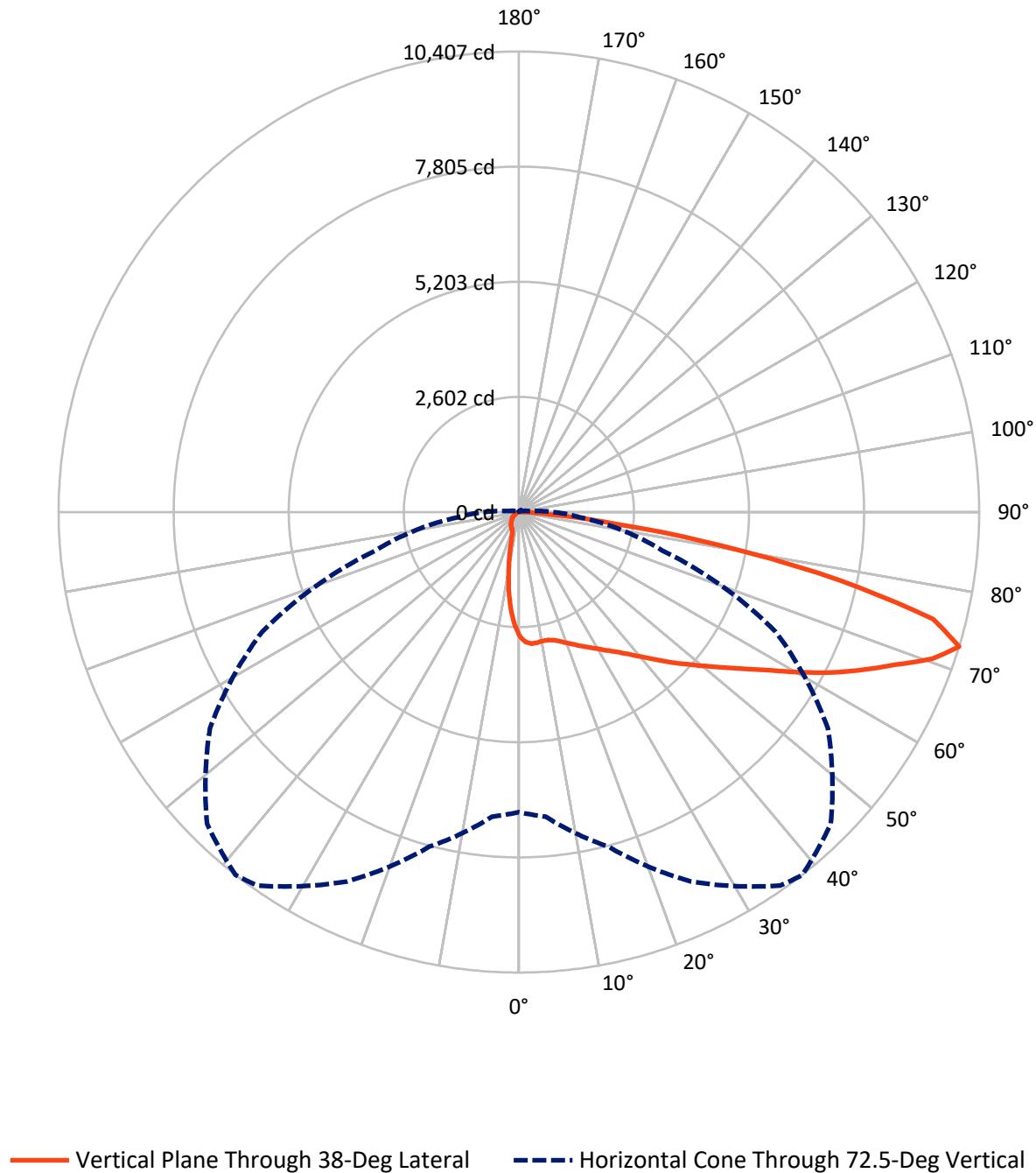
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1285.7	0.0	1285.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	13992.3	0.0	13992.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	15278.0	0.0	15278.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.4	1.6
10°-20°	585.5	3.8
20°-30°	931.2	6.1
30°-40°	1399.9	9.2
40°-50°	2135.6	14.0
50°-60°	3018.4	19.8
60°-70°	3786.1	24.8
70°-80°	2830.9	18.5
80°-90°	351.0	2.3
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°	15278.0	100.0
0°-180°	15278.0	100.0

Coefficient of Utilization



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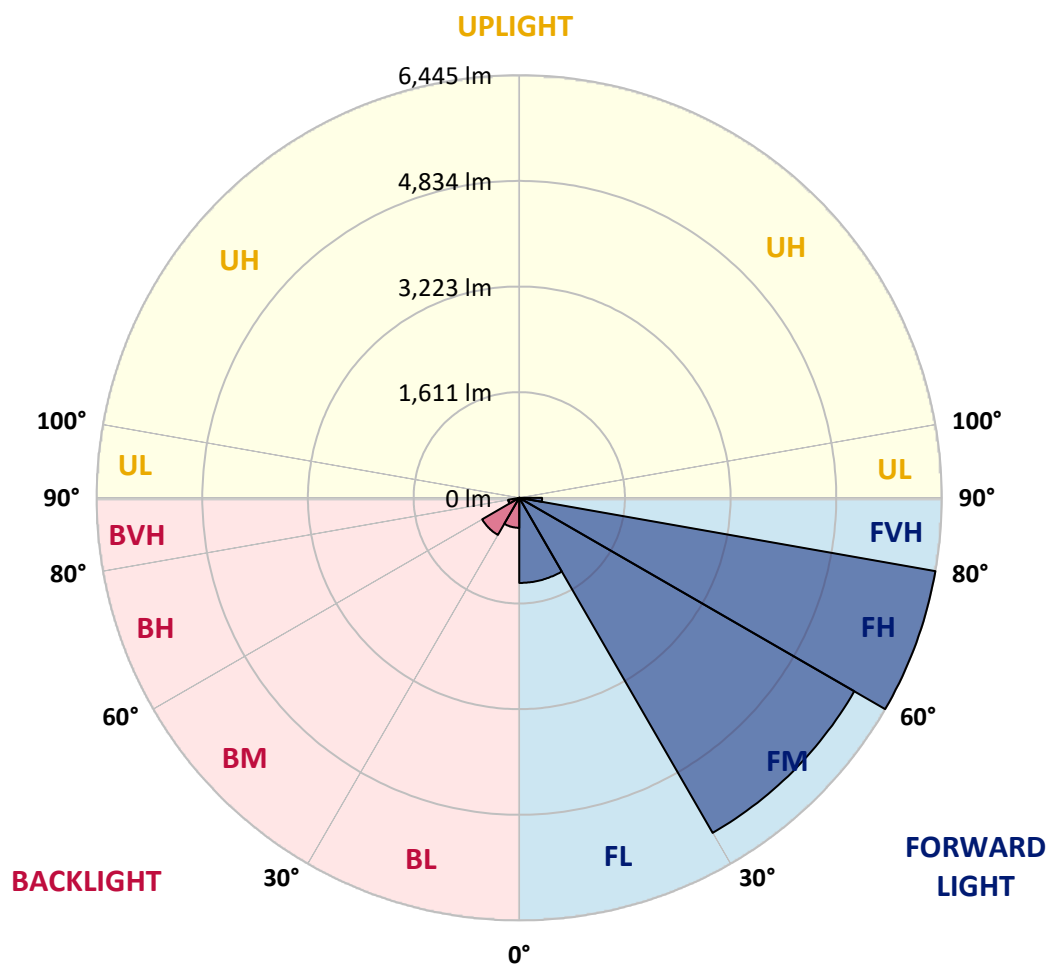
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1298.3	8.5			
FM	(30°-60°)	5901.0	38.6			
FH	(60°-80°)	6445.2	42.2			G3/7500
FVH	(80°-90°)	347.8	2.3			G3/500
BL	(0°-30°)	457.8	3.0	B1/500		
BM	(30°-60°)	652.9	4.3	B1/1000		
BH	(60°-80°)	171.7	1.1	B1/500		G1/500
BVH	(80°-90°)	3.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2809.6	2809.6	2809.6	2809.6	2809.6	2809.6	2809.6	2809.6	2809.6	2809.6	2809.6
2.5°	2982.2	2982.8	2975.8	2964.4	2949.8	2942.2	2929.5	2909.2	2887.6	2848.9	2807.0
5°	3043.1	3043.1	3034.2	3019.0	2995.5	2988.5	2964.4	2932.0	2887.6	2824.8	2754.4
7.5°	3036.7	3038.0	3025.9	3010.1	2986.6	2980.3	2951.1	2914.9	2859.7	2783.6	2693.5
10°	3003.7	3006.9	2997.4	2989.8	2968.2	2961.2	2933.9	2897.8	2842.6	2761.4	2657.9
12.5°	2970.1	2973.3	2976.4	2983.4	2970.1	2967.6	2946.0	2915.5	2862.9	2778.5	2661.7
15°	2948.5	2954.9	2977.7	3005.0	3008.2	3005.6	2991.7	2963.1	2909.8	2822.3	2689.0
17.5°	2948.5	2958.7	3006.3	3058.3	3076.7	3078.6	3066.5	3026.6	2963.1	2869.2	2714.4
20°	2973.3	2987.2	3061.5	3135.1	3165.5	3165.5	3142.1	3086.2	3012.0	2911.7	2731.5
22.5°	3036.7	3055.1	3148.4	3233.4	3265.8	3258.8	3227.1	3145.9	3062.7	2960.0	2753.1
25°	3161.7	3175.7	3272.8	3358.4	3378.1	3362.2	3322.3	3218.2	3127.5	3025.3	2792.4
27.5°	3322.9	3324.8	3425.0	3497.4	3485.3	3474.5	3424.4	3308.9	3220.7	3118.6	2860.3
30°	3499.9	3499.9	3588.1	3643.3	3606.5	3597.6	3547.5	3418.7	3340.0	3245.5	2956.8
32.5°	3671.2	3678.8	3750.5	3785.4	3744.2	3735.3	3686.5	3557.7	3498.6	3439.0	3107.2
35°	3836.8	3842.5	3910.4	3929.5	3890.1	3892.7	3857.8	3748.6	3726.4	3718.8	3333.7
37.5°	3997.4	3998.6	4067.8	4079.8	4060.2	4081.7	4084.9	3988.5	4029.7	4091.3	3652.8
40°	4143.9	4145.2	4213.7	4244.8	4278.4	4306.4	4331.1	4279.7	4416.1	4558.9	4032.9
42.5°	4261.3	4274.6	4361.6	4420.6	4509.4	4562.7	4630.0	4627.4	4876.1	5090.6	4492.3
45°	4364.7	4387.6	4508.8	4612.2	4764.5	4849.5	4954.8	5037.3	5393.9	5682.6	4957.4
47.5°	4501.2	4522.7	4661.1	4830.5	5033.5	5145.2	5319.7	5498.0	5963.0	6263.8	5411.7
50°	4693.4	4683.9	4820.3	5063.3	5324.1	5470.7	5719.4	5986.5	6527.8	6770.1	5678.8
52.5°	4898.4	4894.5	4995.4	5316.5	5666.7	5838.1	6166.7	6491.6	7067.7	7119.1	5801.2
55°	5152.2	5124.9	5209.9	5605.2	6073.5	6257.5	6644.5	6991.6	7497.9	7315.8	5862.8
57.5°	5418.0	5373.0	5454.2	5926.9	6532.2	6749.8	7173.7	7478.9	7784.1	7450.3	5862.2
60°	5692.7	5639.5	5735.9	6329.2	7102.0	7353.9	7747.3	7808.2	8051.2	7518.2	5819.0
62.5°	5922.4	5890.7	6034.1	6759.3	7738.4	7985.8	8180.6	8107.7	8276.4	7570.9	5718.1
65°	6165.5	6167.4	6399.0	7261.2	8414.8	8581.6	8598.1	8496.0	8464.9	7560.1	5376.8
67.5°	6494.1	6524.6	6911.0	7942.7	9072.7	9201.5	9200.3	8916.7	8602.6	7131.2	4619.8
70°	6841.8	6913.5	7501.1	8722.5	9791.0	9921.7	9854.4	9184.4	8100.0	5766.4	3269.6
72.5°	6783.5	6907.8	7829.1	9214.2	10306.8	10406.5	9969.3	8526.4	6402.1	3351.4	1392.1
75°	5233.4	5377.4	7178.8	8726.9	9765.6	9676.2	8565.8	6635.0	3498.6	935.3	313.4
77.5°	2764.5	2841.3	4742.3	6648.3	7614.7	7427.5	6034.1	3680.7	1066.6	231.6	140.9
80°	1447.9	1465.7	2066.6	3772.1	4699.8	4701.0	3576.1	1616.7	439.7	118.7	94.5
82.5°	775.4	790.6	1092.0	1743.0	2462.5	2232.2	1369.3	889.6	255.7	67.3	90.7
85°	186.5	189.7	619.3	796.3	968.2	691.6	406.7	746.8	69.2	39.3	73.6
87.5°	71.7	73.0	229.7	344.5	246.8	159.9	190.4	278.5	8.9	15.2	11.4
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°	2809.6	2809.6	2809.6	2809.6	2809.6	2809.6	2809.6	2809.6	2809.6	2809.6	2809.6
2.5°	2781.7	2765.2	2724.6	2673.2	2627.5	2594.5	2545.0	2512.6	2491.1	2490.4	2482.2
5°	2711.2	2677.6	2590.0	2486.0	2391.4	2306.4	2206.2	2126.8	2067.8	2058.3	2038.0
7.5°	2635.7	2580.5	2446.0	2283.6	2124.9	1963.8	1776.6	1660.5	1560.9	1513.3	1508.2
10°	2589.4	2512.0	2321.0	2086.2	1837.5	1575.5	1330.6	1161.1	1038.7	1003.8	977.8
12.5°	2579.9	2477.7	2224.6	1901.0	1545.6	1199.2	928.3	748.1	650.4	619.3	611.0
15°	2589.4	2461.9	2143.3	1717.6	1250.0	850.9	623.1	518.4	481.6	472.7	472.1
17.5°	2595.1	2442.8	2051.3	1513.9	963.2	607.9	477.1	446.7	441.0	440.3	441.6
20°	2594.5	2413.6	1941.6	1286.8	716.4	477.8	431.5	425.1	423.8	424.5	423.8
22.5°	2590.0	2379.4	1821.0	1052.6	541.2	427.0	411.8	408.0	407.4	407.4	407.4
25°	2598.3	2352.1	1688.4	828.7	446.1	403.5	394.0	390.9	390.2	390.2	388.9
27.5°	2628.1	2336.9	1543.1	637.7	402.9	382.6	375.0	374.4	372.5	371.8	373.1
30°	2676.3	2336.9	1383.8	496.2	376.9	361.0	355.3	354.1	353.4	352.8	353.4
32.5°	2761.4	2354.6	1210.0	412.4	352.1	336.9	333.1	335.0	333.1	333.1	333.1
35°	2914.9	2407.9	1027.9	359.8	326.1	313.4	309.6	312.2	310.9	310.9	310.3
37.5°	3138.9	2506.9	844.5	328.0	303.3	290.0	284.9	288.7	287.4	287.4	286.8
40°	3411.7	2650.9	670.0	303.9	281.1	267.1	262.7	264.6	261.4	261.4	262.7
42.5°	3748.6	2833.7	517.8	280.4	258.9	245.6	243.0	241.1	235.4	232.2	232.9
45°	4123.0	3024.0	403.5	257.6	237.9	227.2	223.3	218.3	208.8	202.4	203.0
47.5°	4457.4	3170.6	328.0	235.4	218.9	210.7	204.9	195.4	181.5	173.9	174.5
50°	4633.1	3192.8	279.2	213.2	201.1	192.9	184.6	170.0	153.5	145.3	144.7
52.5°	4678.2	3088.8	243.0	192.9	183.4	173.9	163.1	143.4	125.0	116.1	114.8
55°	4694.7	2930.1	210.7	173.9	164.3	153.5	139.6	117.4	100.3	91.4	90.7
57.5°	4640.1	2693.5	185.3	156.7	145.3	132.0	114.8	93.9	77.4	70.4	70.4
60°	4518.9	2373.0	165.6	138.3	125.6	110.4	92.6	73.0	57.7	52.0	52.0
62.5°	4277.2	1958.1	147.2	119.3	107.2	91.4	74.9	55.2	40.6	37.4	38.1
65°	3821.0	1485.4	128.8	102.2	91.4	75.5	58.4	39.3	27.3	27.3	28.6
67.5°	3116.0	1031.7	109.8	86.9	78.7	61.5	44.4	27.3	19.0	21.6	24.1
70°	2062.8	578.7	93.9	71.7	67.3	48.9	33.0	18.4	15.2	20.3	24.7
72.5°	778.5	225.2	78.7	57.7	58.4	37.4	23.5	14.0	14.0	22.2	29.2
75°	217.0	110.4	56.5	42.5	45.7	27.3	17.1	12.1	13.3	25.4	34.3
77.5°	127.5	81.2	36.8	24.7	31.1	19.0	11.4	9.5	11.4	21.6	33.0
80°	102.8	43.1	21.6	12.7	17.1	10.8	7.6	5.7	3.2	8.2	17.1
82.5°	102.8	26.0	10.2	8.9	8.9	5.7	3.8	2.5	0.6	0.0	4.4
85°	69.2	10.8	6.3	5.7	4.4	1.9	1.3	0.6	0.0	0.0	0.0
87.5°	11.4	4.4	2.5	1.3	0.6	0.0	0.0	0.0	0.0	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)