

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: P323908

Luminaire Tested: **GAN-SA4A-760-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323908
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-SA4A-760-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 615mA 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: 15257 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

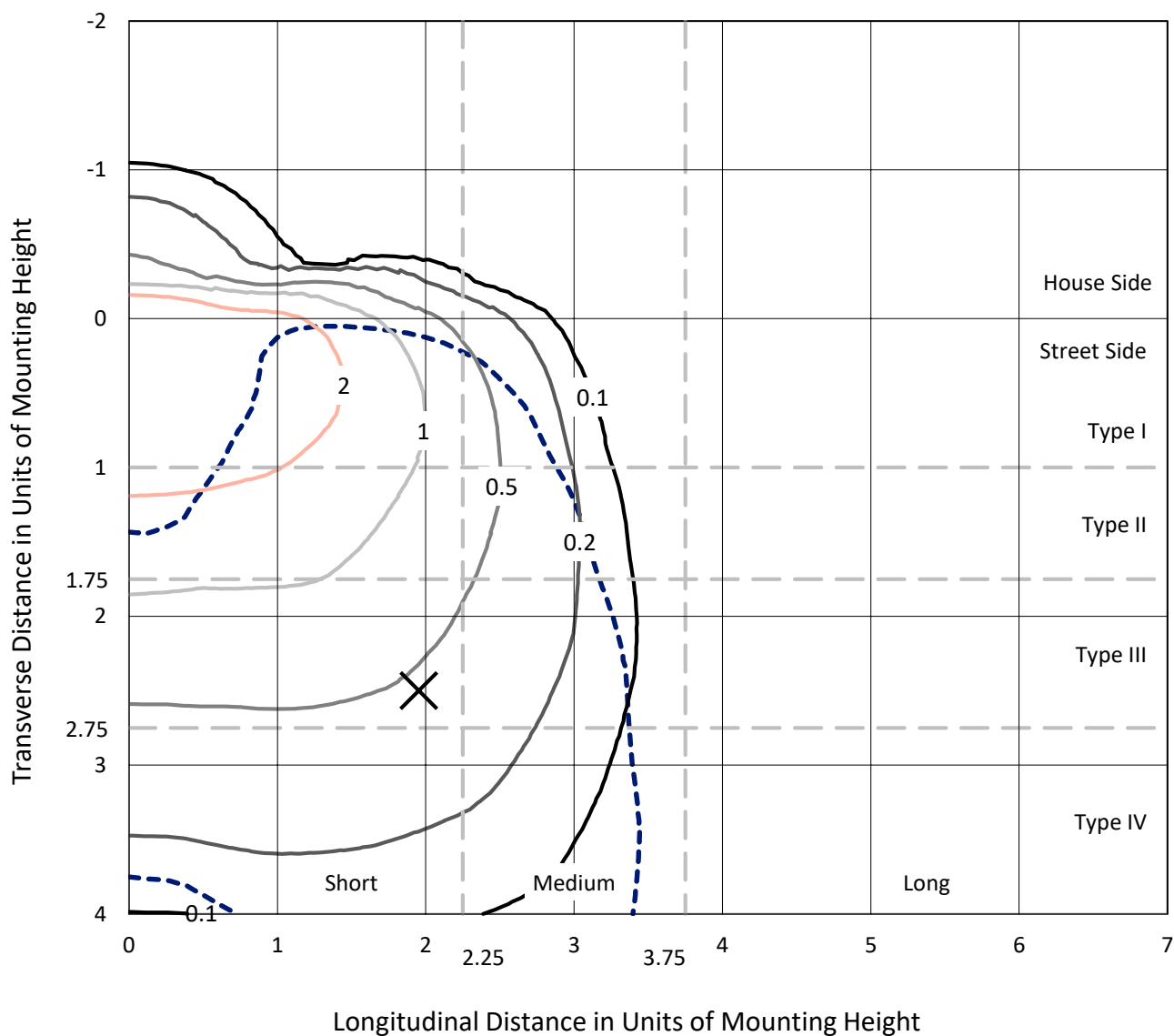
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

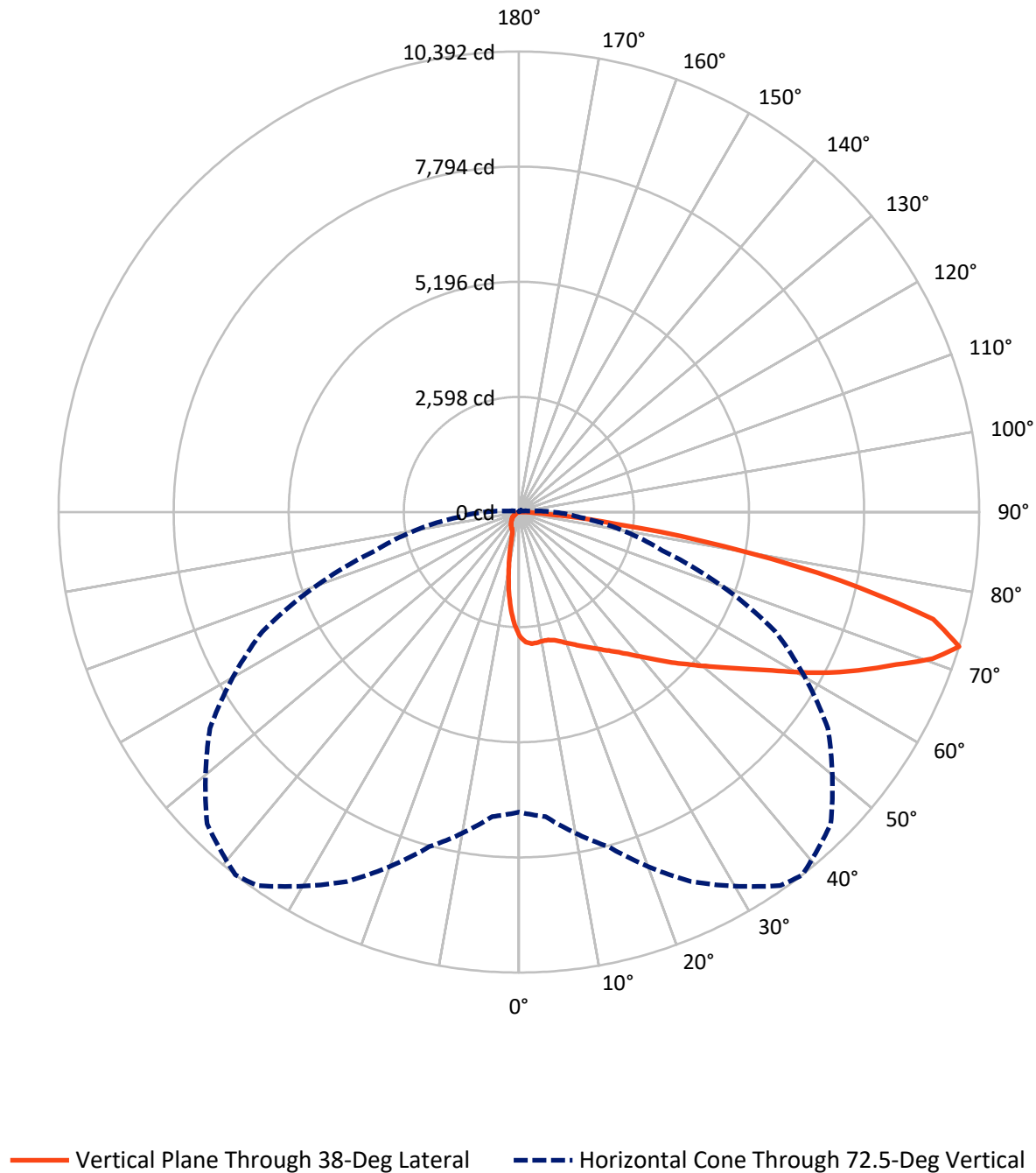
✕ Max cd
 - - - 1/2 Max cd



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	1283.9	0.0	1283.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	13973.1	0.0	13973.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	15257.0	0.0	15257.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.1	1.6
10°-20°	584.7	3.8
20°-30°	929.9	6.1
30°-40°	1398.0	9.2
40°-50°	2132.7	14.0
50°-60°	3014.2	19.8
60°-70°	3780.9	24.8
70°-80°	2827.0	18.5
80°-90°	350.5	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°	15257.0	100.0
0°-180°	15257.0	100.0

Coefficient of Utilization



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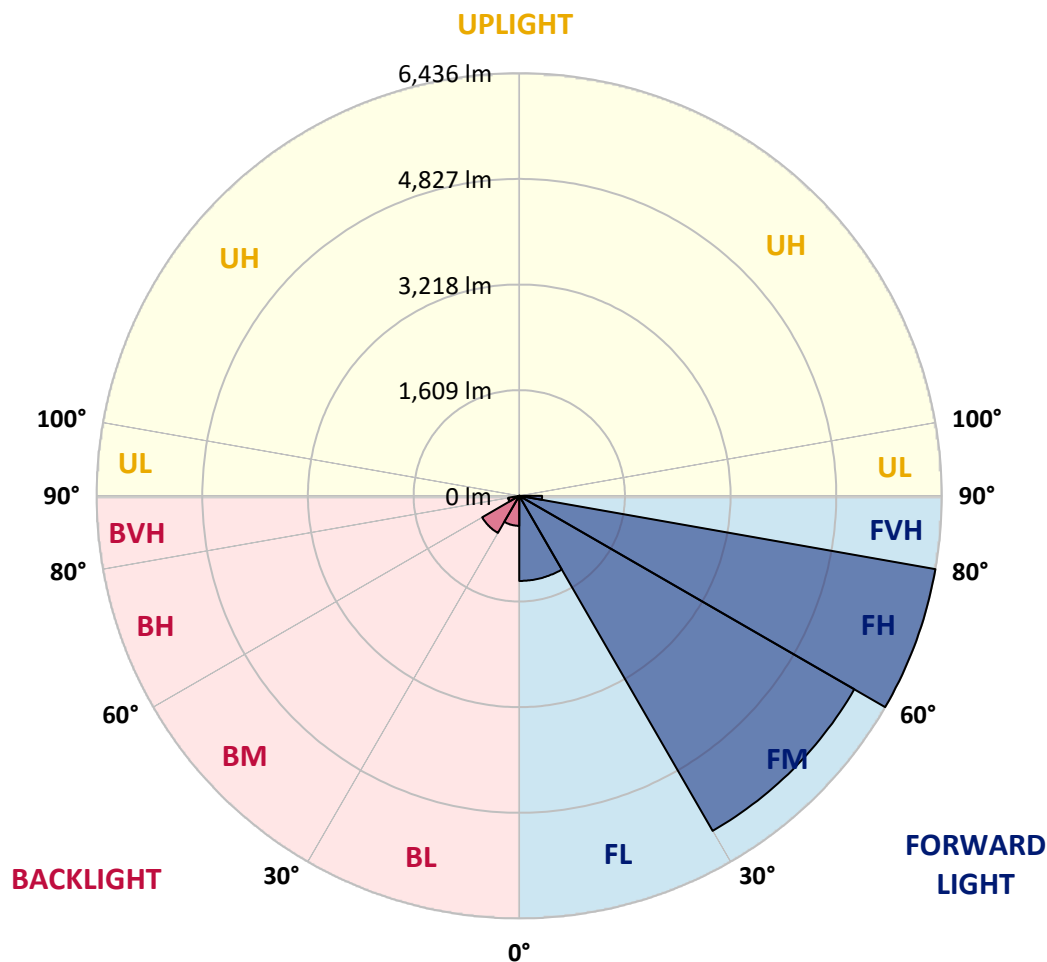
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1296.5	8.5			
FM	(30°-60°)	5892.9	38.6			
FH	(60°-80°)	6436.4	42.2			G3/7500
FVH	(80°-90°)	347.3	2.3			G3/500
BL	(0°-30°)	457.2	3.0	B1/500		
BM	(30°-60°)	652.0	4.3	B1/1000		
BH	(60°-80°)	171.5	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°	2805.7	2805.7	2805.7	2805.7	2805.7	2805.7	2805.7	2805.7	2805.7	2805.7	2805.7
2.5°	2978.1	2978.7	2971.7	2960.3	2945.7	2938.1	2925.5	2905.2	2883.6	2845.0	2803.2
5°	3038.9	3038.9	3030.0	3014.8	2991.4	2984.4	2960.3	2928.0	2883.6	2820.9	2750.6
7.5°	3032.6	3033.8	3021.8	3005.9	2982.5	2976.2	2947.0	2910.9	2855.8	2779.7	2689.8
10°	2999.6	3002.8	2993.3	2985.7	2964.1	2957.1	2929.9	2893.8	2838.7	2757.6	2654.3
12.5°	2966.0	2969.2	2972.4	2979.3	2966.0	2963.5	2941.9	2911.5	2858.9	2774.7	2658.1
15°	2944.5	2950.8	2973.6	3000.9	3004.0	3001.5	2987.6	2959.1	2905.8	2818.4	2685.3
17.5°	2944.5	2954.6	3002.1	3054.1	3072.5	3074.4	3062.3	3022.4	2959.1	2865.3	2710.7
20°	2969.2	2983.1	3057.3	3130.8	3161.2	3161.2	3137.7	3082.0	3007.8	2907.7	2727.8
22.5°	3032.6	3050.9	3144.1	3229.0	3261.3	3254.3	3222.6	3141.5	3058.5	2955.9	2749.3
25°	3157.4	3171.3	3268.3	3353.8	3373.4	3357.6	3317.7	3213.8	3123.2	3021.1	2788.6
27.5°	3318.3	3320.2	3420.3	3492.6	3480.5	3469.8	3419.7	3304.4	3216.3	3114.3	2856.4
30°	3495.1	3495.1	3583.2	3638.3	3601.6	3592.7	3542.6	3414.0	3335.4	3241.0	2952.7
32.5°	3666.2	3673.8	3745.4	3780.2	3739.0	3730.2	3681.4	3552.8	3493.8	3434.3	3102.9
35°	3831.6	3837.3	3905.1	3924.1	3884.8	3887.3	3852.5	3743.5	3721.3	3713.7	3329.1
37.5°	3991.9	3993.1	4062.2	4074.2	4054.6	4076.1	4079.3	3983.0	4024.2	4085.6	3647.8
40°	4138.2	4139.5	4207.9	4239.0	4272.6	4300.4	4325.2	4273.8	4410.1	4552.6	4027.3
42.5°	4255.5	4268.8	4355.6	4414.5	4503.2	4556.4	4623.6	4621.1	4869.4	5083.6	4486.1
45°	4358.7	4381.5	4502.6	4605.9	4757.9	4842.8	4948.0	5030.4	5386.5	5674.8	4950.5
47.5°	4495.0	4516.5	4654.6	4823.8	5026.6	5138.1	5312.4	5490.4	5954.9	6255.2	5404.2
50°	4687.0	4677.5	4813.7	5056.4	5316.8	5463.2	5711.5	5978.3	6518.8	6760.8	5671.0
52.5°	4891.6	4887.8	4988.6	5309.2	5658.9	5830.0	6158.2	6482.7	7058.0	7109.3	5793.3
55°	5145.1	5117.8	5202.7	5597.5	6065.1	6248.9	6635.4	6982.0	7487.6	7305.7	5854.7
57.5°	5410.6	5365.6	5446.7	5918.7	6523.2	6740.6	7163.8	7468.6	7773.4	7440.1	5854.1
60°	5684.9	5631.7	5728.0	6320.5	7092.2	7343.8	7736.6	7797.4	8040.1	7507.9	5811.0
62.5°	5914.3	5882.6	6025.8	6750.1	7727.7	7974.9	8169.4	8096.5	8265.1	7560.5	5710.3
65°	6157.0	6158.9	6390.2	7251.3	8403.2	8569.8	8586.3	8484.3	8453.3	7549.7	5369.4
67.5°	6485.2	6515.6	6901.5	7931.8	9060.3	9188.9	9187.6	8904.4	8590.8	7121.4	4613.5
70°	6832.4	6904.0	7490.8	8710.5	9777.5	9908.1	9840.9	9171.8	8088.9	5758.4	3265.1
72.5°	6774.1	6898.3	7818.4	9201.6	10292.7	10392.2	9955.6	8514.7	6393.3	3346.8	1390.2
75°	5226.2	5370.0	7168.9	8714.9	9752.2	9662.9	8554.0	6625.9	3493.8	934.0	313.0
77.5°	2760.7	2837.4	4735.7	6639.2	7604.2	7417.3	6025.8	3675.7	1065.1	231.3	140.7
80°	1445.9	1463.7	2063.7	3766.9	4693.3	4694.6	3571.1	1614.5	439.1	118.5	94.4
82.5°	774.3	789.5	1090.5	1740.6	2459.1	2229.1	1367.4	888.3	255.4	67.2	90.6
85°	186.3	189.5	618.4	795.2	966.9	690.7	406.2	745.8	69.1	39.3	73.5
87.5°	71.6	72.9	229.4	344.1	246.5	159.7	190.1	278.2	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°	2805.7	2805.7	2805.7	2805.7	2805.7	2805.7	2805.7	2805.7	2805.7	2805.7	2805.7
2.5°	2777.8	2761.4	2720.8	2669.5	2623.9	2590.9	2541.5	2509.2	2487.6	2487.0	2478.8
5°	2707.5	2673.9	2586.5	2482.6	2388.2	2303.2	2203.1	2123.9	2065.0	2055.5	2035.2
7.5°	2632.1	2577.0	2442.6	2280.4	2122.0	1961.1	1774.2	1658.2	1558.7	1511.2	1506.1
10°	2585.8	2508.5	2317.8	2083.4	1835.0	1573.3	1328.7	1159.5	1037.3	1002.4	976.4
12.5°	2576.3	2474.3	2221.5	1898.4	1543.5	1197.6	927.0	747.0	649.5	618.4	610.2
15°	2585.8	2458.5	2140.4	1715.2	1248.3	849.7	622.2	517.7	480.9	472.1	471.4
17.5°	2591.5	2439.5	2048.5	1511.8	961.8	607.0	476.5	446.1	440.4	439.7	441.0
20°	2590.9	2410.3	1938.9	1285.0	715.4	477.1	430.9	424.5	423.3	423.9	423.3
22.5°	2586.5	2376.1	1818.5	1051.2	540.5	426.4	411.2	407.4	406.8	406.8	406.8
25°	2594.7	2348.9	1686.1	827.5	445.4	403.0	393.5	390.3	389.7	389.7	388.4
27.5°	2624.5	2333.7	1541.0	636.8	402.4	382.1	374.5	373.8	371.9	371.3	372.6
30°	2672.6	2333.7	1381.9	495.5	376.4	360.5	354.8	353.6	352.9	352.3	352.9
32.5°	2757.6	2351.4	1208.3	411.9	351.7	336.5	332.7	334.6	332.7	332.7	332.7
35°	2910.9	2404.6	1026.5	359.3	325.7	313.0	309.2	311.7	310.5	310.5	309.8
37.5°	3134.6	2503.5	843.4	327.6	302.9	289.6	284.5	288.3	287.0	287.0	286.4
40°	3407.0	2647.3	669.1	303.5	280.7	266.8	262.3	264.2	261.1	261.1	262.3
42.5°	3743.5	2829.8	517.0	280.1	258.5	245.2	242.7	240.8	235.1	231.9	232.5
45°	4117.3	3019.9	403.0	257.3	237.6	226.8	223.0	218.0	208.5	202.1	202.8
47.5°	4451.2	3166.2	327.6	235.1	218.6	210.4	204.7	195.2	181.2	173.6	174.2
50°	4626.8	3188.4	278.8	212.9	200.9	192.6	184.4	169.8	153.3	145.1	144.5
52.5°	4671.8	3084.5	242.7	192.6	183.1	173.6	162.8	143.2	124.8	116.0	114.7
55°	4688.2	2926.1	210.4	173.6	164.1	153.3	139.4	117.2	100.1	91.2	90.6
57.5°	4633.7	2689.8	185.0	156.5	145.1	131.8	114.7	93.8	77.3	70.3	70.3
60°	4512.7	2369.8	165.4	138.1	125.5	110.3	92.5	72.9	57.7	52.0	52.0
62.5°	4271.3	1955.4	147.0	119.1	107.1	91.2	74.8	55.1	40.6	37.4	38.0
65°	3815.7	1483.3	128.6	102.0	91.2	75.4	58.3	39.3	27.2	27.2	28.5
67.5°	3111.8	1030.3	109.6	86.8	78.6	61.5	44.4	27.2	19.0	21.5	24.1
70°	2059.9	577.9	93.8	71.6	67.2	48.8	32.9	18.4	15.2	20.3	24.7
72.5°	777.5	224.9	78.6	57.7	58.3	37.4	23.4	13.9	13.9	22.2	29.1
75°	216.7	110.3	56.4	42.5	45.6	27.2	17.1	12.0	13.3	25.3	34.2
77.5°	127.4	81.1	36.8	24.7	31.0	19.0	11.4	9.5	11.4	21.5	32.9
80°	102.6	43.1	21.5	12.7	17.1	10.8	7.6	5.7	3.2	8.2	17.1
82.5°	102.6	26.0	10.1	8.9	8.9	5.7	3.8	2.5	0.6	0.0	4.4
85°	69.1	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)