

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: P323828

Luminaire Tested: **GAN-SA4A-740-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323828
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-740-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 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: 15258 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

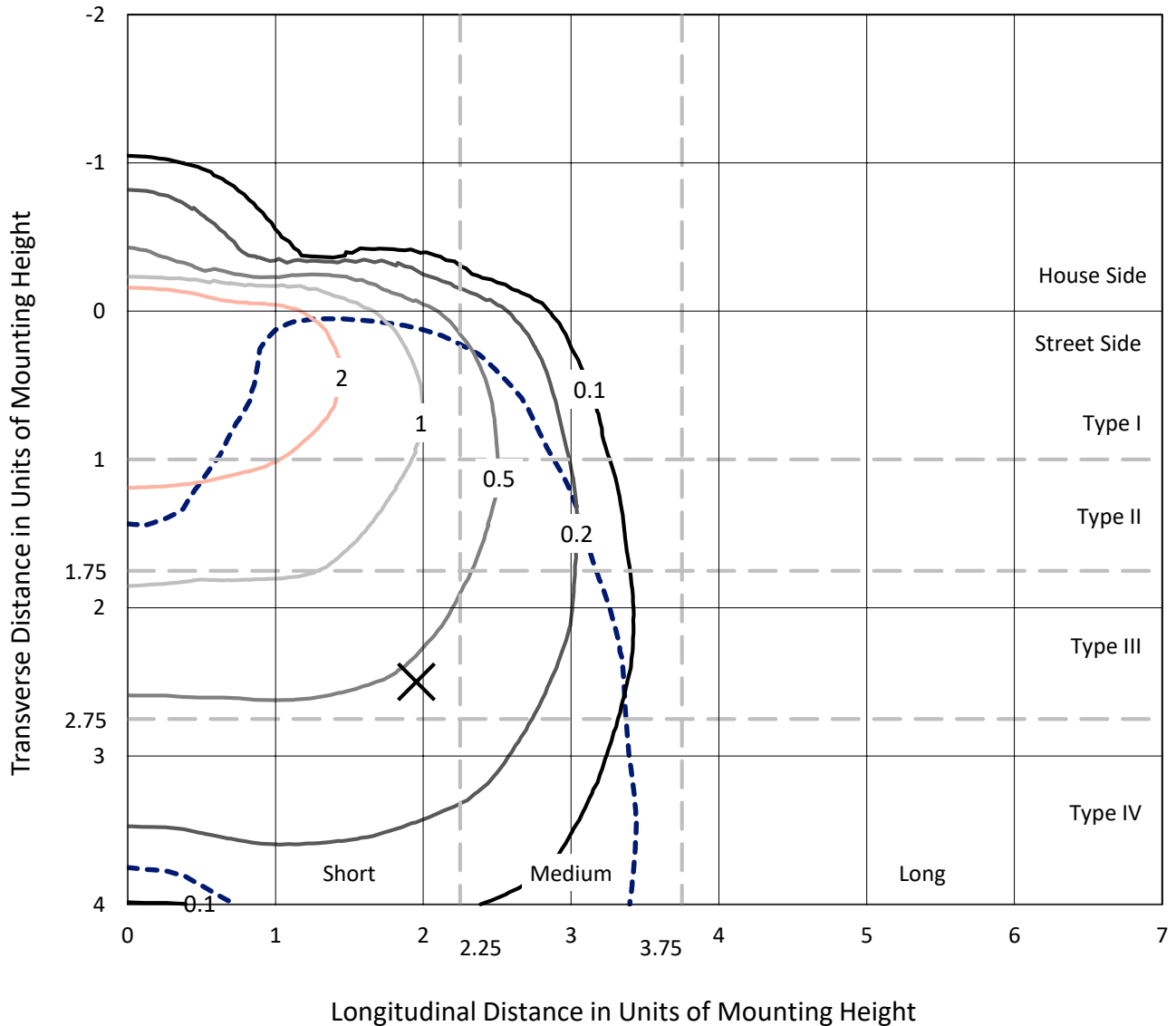
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

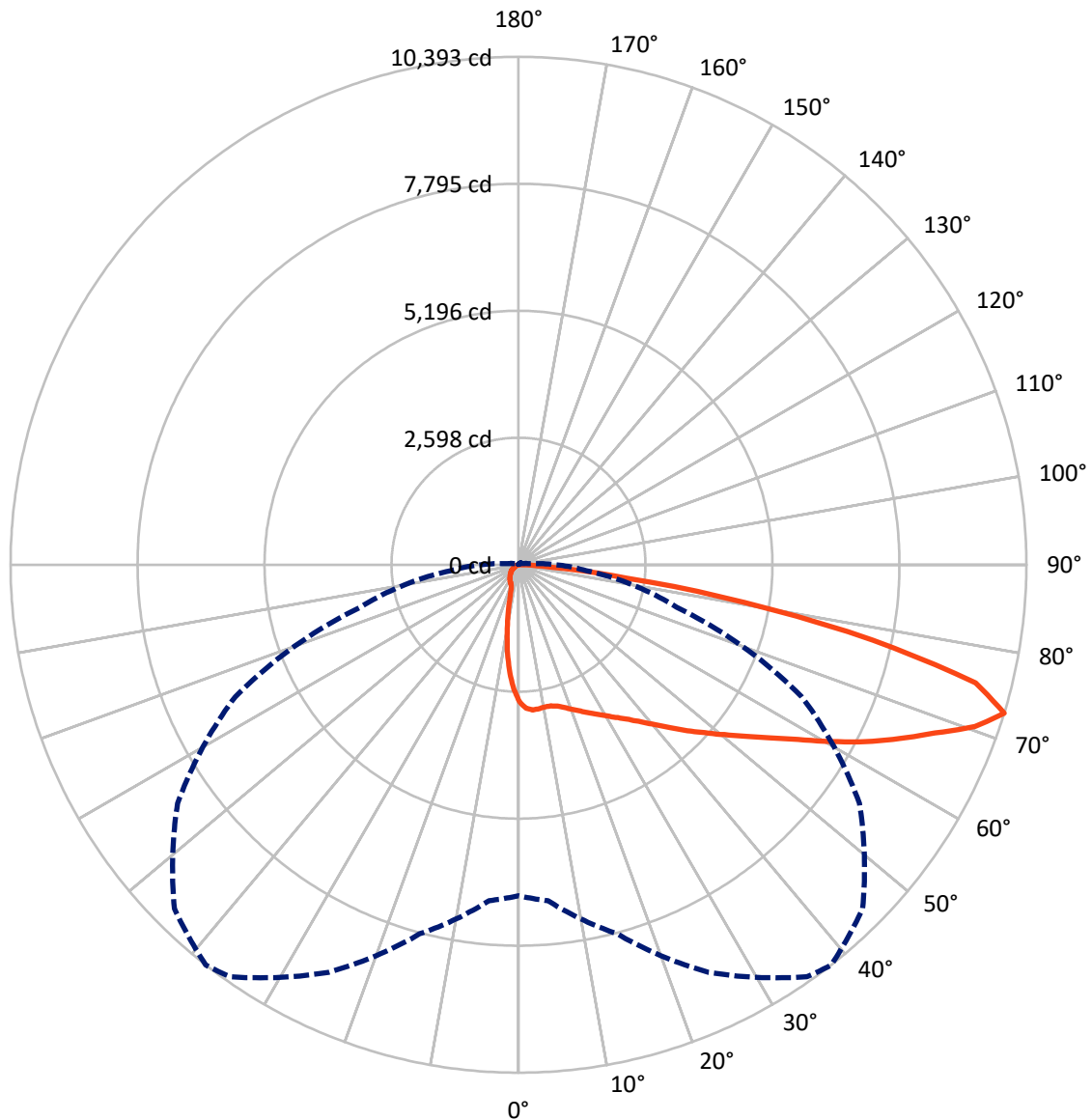
× Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1284.0	0.0	1284.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	13974.0	0.0	13974.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	15258.0	0.0	15258.0
	% 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°	1398.1	9.2
40°-50°	2132.9	14.0
50°-60°	3014.4	19.8
60°-70°	3781.1	24.8
70°-80°	2827.2	18.5
80°-90°	350.6	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°	15258.0	100.0
0°-180°	15258.0	100.0

Coefficient of Utilization

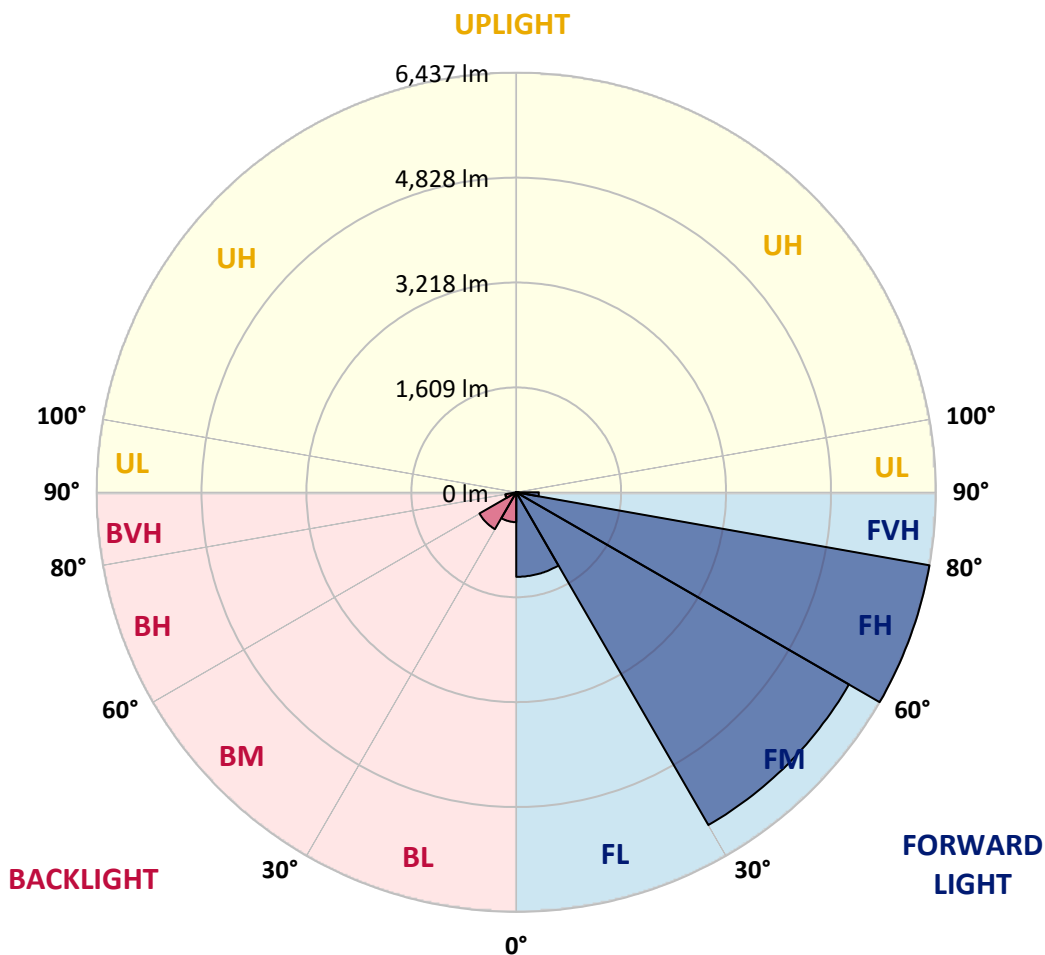


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1296.6	8.5			
FM (30°-60°)	5893.3	38.6			
FH (60°-80°)	6436.8	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°	2805.9	2805.9	2805.9	2805.9	2805.9	2805.9	2805.9	2805.9	2805.9	2805.9	2805.9
2.5°	2978.3	2978.9	2971.9	2960.5	2945.9	2938.3	2925.7	2905.4	2883.8	2845.2	2803.4
5°	3039.1	3039.1	3030.2	3015.0	2991.6	2984.6	2960.5	2928.2	2883.8	2821.1	2750.8
7.5°	3032.8	3034.0	3022.0	3006.1	2982.7	2976.4	2947.2	2911.1	2856.0	2779.9	2689.9
10°	2999.8	3003.0	2993.5	2985.9	2964.3	2957.3	2930.1	2894.0	2838.8	2757.7	2654.4
12.5°	2966.2	2969.4	2972.6	2979.5	2966.2	2963.7	2942.1	2911.7	2859.1	2774.8	2658.3
15°	2944.7	2951.0	2973.8	3001.1	3004.2	3001.7	2987.8	2959.2	2906.0	2818.6	2685.5
17.5°	2944.7	2954.8	3002.3	3054.3	3072.7	3074.6	3062.5	3022.6	2959.2	2865.5	2710.8
20°	2969.4	2983.3	3057.5	3131.0	3161.4	3161.4	3137.9	3082.2	3008.0	2907.9	2728.0
22.5°	3032.8	3051.1	3144.3	3229.2	3261.5	3254.5	3222.9	3141.7	3058.7	2956.1	2749.5
25°	3157.6	3171.5	3268.5	3354.0	3373.7	3357.8	3317.9	3214.0	3123.4	3021.3	2788.8
27.5°	3318.5	3320.4	3420.6	3492.8	3480.8	3470.0	3419.9	3304.6	3216.5	3114.5	2856.6
30°	3495.3	3495.3	3583.4	3638.5	3601.8	3592.9	3542.9	3414.2	3335.6	3241.2	2952.9
32.5°	3666.4	3674.0	3745.6	3780.5	3739.3	3730.4	3681.6	3553.0	3494.1	3434.5	3103.1
35°	3831.8	3837.5	3905.3	3924.3	3885.0	3887.6	3852.7	3743.7	3721.6	3713.9	3329.3
37.5°	3992.1	3993.4	4062.5	4074.5	4054.9	4076.4	4079.6	3983.3	4024.4	4085.9	3648.0
40°	4138.5	4139.8	4208.2	4239.3	4272.8	4300.7	4325.4	4274.1	4410.4	4552.9	4027.6
42.5°	4255.7	4269.0	4355.9	4414.8	4503.5	4556.7	4623.9	4621.4	4869.8	5083.9	4486.4
45°	4359.0	4381.8	4502.9	4606.2	4758.2	4843.1	4948.3	5030.7	5386.8	5675.2	4950.9
47.5°	4495.3	4516.8	4654.9	4824.1	5026.9	5138.4	5312.7	5490.8	5955.2	6255.6	5404.6
50°	4687.3	4677.8	4814.0	5056.7	5317.1	5463.5	5711.9	5978.7	6519.2	6761.3	5671.4
52.5°	4891.9	4888.1	4988.9	5309.5	5659.3	5830.4	6158.7	6483.1	7058.5	7109.8	5793.7
55°	5145.4	5118.2	5203.1	5597.9	6065.5	6249.3	6635.8	6982.4	7488.1	7306.2	5855.1
57.5°	5410.9	5365.9	5447.0	5919.1	6523.6	6741.0	7164.3	7469.1	7773.9	7440.6	5854.5
60°	5685.3	5632.1	5728.4	6320.9	7092.7	7344.2	7737.1	7798.0	8040.7	7508.4	5811.4
62.5°	5914.7	5883.0	6026.2	6750.5	7728.3	7975.4	8169.9	8097.1	8265.6	7561.0	5710.6
65°	6157.4	6159.3	6390.6	7251.7	8403.7	8570.4	8586.9	8484.9	8453.8	7550.2	5369.7
67.5°	6485.6	6516.0	6901.9	7932.3	9060.9	9189.5	9188.2	8905.0	8591.3	7121.8	4613.8
70°	6832.9	6904.5	7491.3	8711.1	9778.2	9908.7	9841.5	9172.4	8089.4	5758.8	3265.3
72.5°	6774.6	6898.8	7818.9	9202.2	10293.4	10392.8	9956.2	8515.3	6393.7	3347.1	1390.3
75°	5226.5	5370.4	7169.4	8715.5	9752.8	9663.5	8554.6	6626.3	3494.1	934.0	313.0
77.5°	2760.9	2837.6	4736.1	6639.6	7604.7	7417.8	6026.2	3675.9	1065.2	231.3	140.7
80°	1446.0	1463.8	2063.9	3767.2	4693.6	4694.9	3571.4	1614.6	439.1	118.5	94.4
82.5°	774.3	789.6	1090.5	1740.7	2459.3	2229.3	1367.5	888.4	255.4	67.2	90.6
85°	186.3	189.5	618.5	795.3	967.0	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°	2805.9	2805.9	2805.9	2805.9	2805.9	2805.9	2805.9	2805.9	2805.9	2805.9	2805.9
2.5°	2778.0	2761.5	2721.0	2669.7	2624.0	2591.1	2541.7	2509.3	2487.8	2487.2	2478.9
5°	2707.7	2674.1	2586.6	2482.7	2388.3	2303.4	2203.3	2124.1	2065.1	2055.6	2035.4
7.5°	2632.3	2577.1	2442.8	2280.6	2122.2	1961.2	1774.3	1658.3	1558.8	1511.3	1506.2
10°	2586.0	2508.7	2318.0	2083.5	1835.1	1573.4	1328.8	1159.6	1037.3	1002.5	976.5
12.5°	2576.5	2474.5	2221.7	1898.5	1543.6	1197.6	927.1	747.1	649.5	618.5	610.2
15°	2586.0	2458.6	2140.5	1715.3	1248.3	849.8	622.3	517.7	481.0	472.1	471.5
17.5°	2591.7	2439.6	2048.7	1511.9	961.9	607.1	476.5	446.1	440.4	439.8	441.0
20°	2591.1	2410.5	1939.0	1285.1	715.4	477.2	430.9	424.6	423.3	423.9	423.3
22.5°	2586.6	2376.3	1818.6	1051.3	540.5	426.5	411.3	407.5	406.8	406.8	406.8
25°	2594.9	2349.0	1686.2	827.6	445.5	403.0	393.5	390.3	389.7	389.7	388.4
27.5°	2624.7	2333.8	1541.1	636.8	402.4	382.1	374.5	373.9	372.0	371.3	372.6
30°	2672.8	2333.8	1382.0	495.5	376.4	360.6	354.9	353.6	353.0	352.3	353.0
32.5°	2757.7	2351.6	1208.4	411.9	351.7	336.5	332.7	334.6	332.7	332.7	332.7
35°	2911.1	2404.8	1026.5	359.3	325.7	313.0	309.2	311.8	310.5	310.5	309.9
37.5°	3134.8	2503.6	843.4	327.6	302.9	289.6	284.5	288.3	287.1	287.1	286.4
40°	3407.2	2647.5	669.2	303.5	280.7	266.8	262.3	264.2	261.1	261.1	262.3
42.5°	3743.7	2830.0	517.1	280.1	258.5	245.2	242.7	240.8	235.1	231.9	232.6
45°	4117.6	3020.1	403.0	257.3	237.6	226.9	223.1	218.0	208.5	202.1	202.8
47.5°	4451.5	3166.5	327.6	235.1	218.6	210.4	204.7	195.2	181.2	173.6	174.3
50°	4627.1	3188.6	278.8	212.9	200.9	192.6	184.4	169.8	153.3	145.1	144.5
52.5°	4672.1	3084.7	242.7	192.6	183.1	173.6	162.9	143.2	124.8	116.0	114.7
55°	4688.5	2926.3	210.4	173.6	164.1	153.3	139.4	117.2	100.1	91.2	90.6
57.5°	4634.0	2689.9	185.0	156.5	145.1	131.8	114.7	93.8	77.3	70.3	70.3
60°	4513.0	2369.9	165.4	138.1	125.5	110.3	92.5	72.9	57.7	52.0	52.0
62.5°	4271.6	1955.5	147.0	119.1	107.1	91.2	74.8	55.1	40.6	37.4	38.0
65°	3816.0	1483.4	128.6	102.0	91.2	75.4	58.3	39.3	27.2	27.2	28.5
67.5°	3112.0	1030.3	109.6	86.8	78.6	61.5	44.4	27.2	19.0	21.5	24.1
70°	2060.1	577.9	93.8	71.6	67.2	48.8	33.0	18.4	15.2	20.3	24.7
72.5°	777.5	225.0	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	33.0
80°	102.7	43.1	21.5	12.7	17.1	10.8	7.6	5.7	3.2	8.2	17.1
82.5°	102.7	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)