

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: P322400

Luminaire Tested: **GAN-SA6B-830-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322400
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6B-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19792 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 249
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

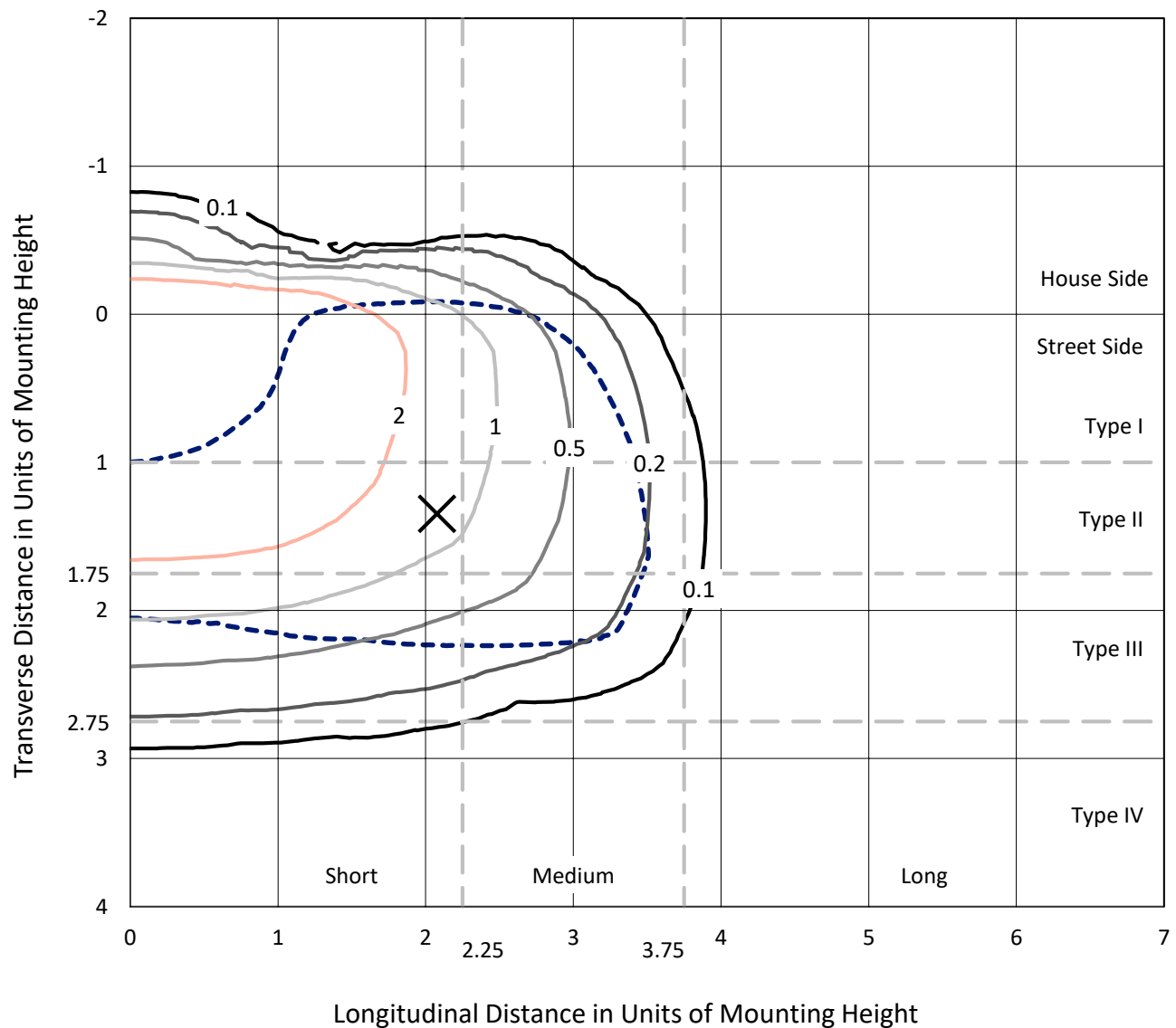


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Iso-Footcandle Lines of Horizontal Illumination

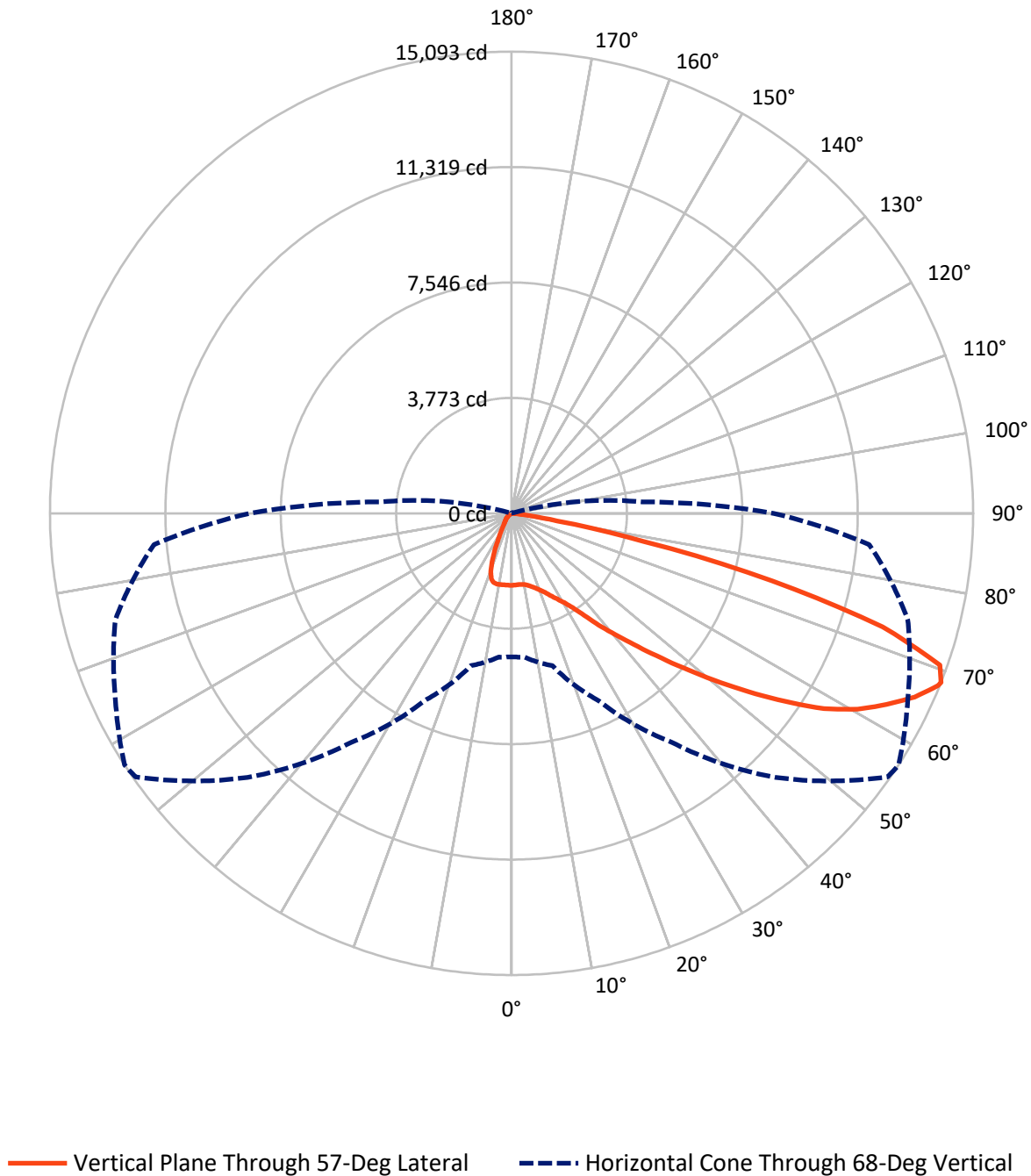
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2170.3	0.0	2170.3
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	17621.7	0.0	17621.7
	% Fixture	89.0	0.0	89.0
Total	Lumens	19792.0	0.0	19792.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.1	1.1
10°-20°	609.9	3.1
20°-30°	1052.1	5.3
30°-40°	1815.9	9.2
40°-50°	3106.2	15.7
50°-60°	4969.6	25.1
60°-70°	5741.8	29.0
70°-80°	2194.0	11.1
80°-90°	82.2	0.4
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°	19792.0	100.0
0°-180°	19792.0	100.0

Coefficient of Utilization



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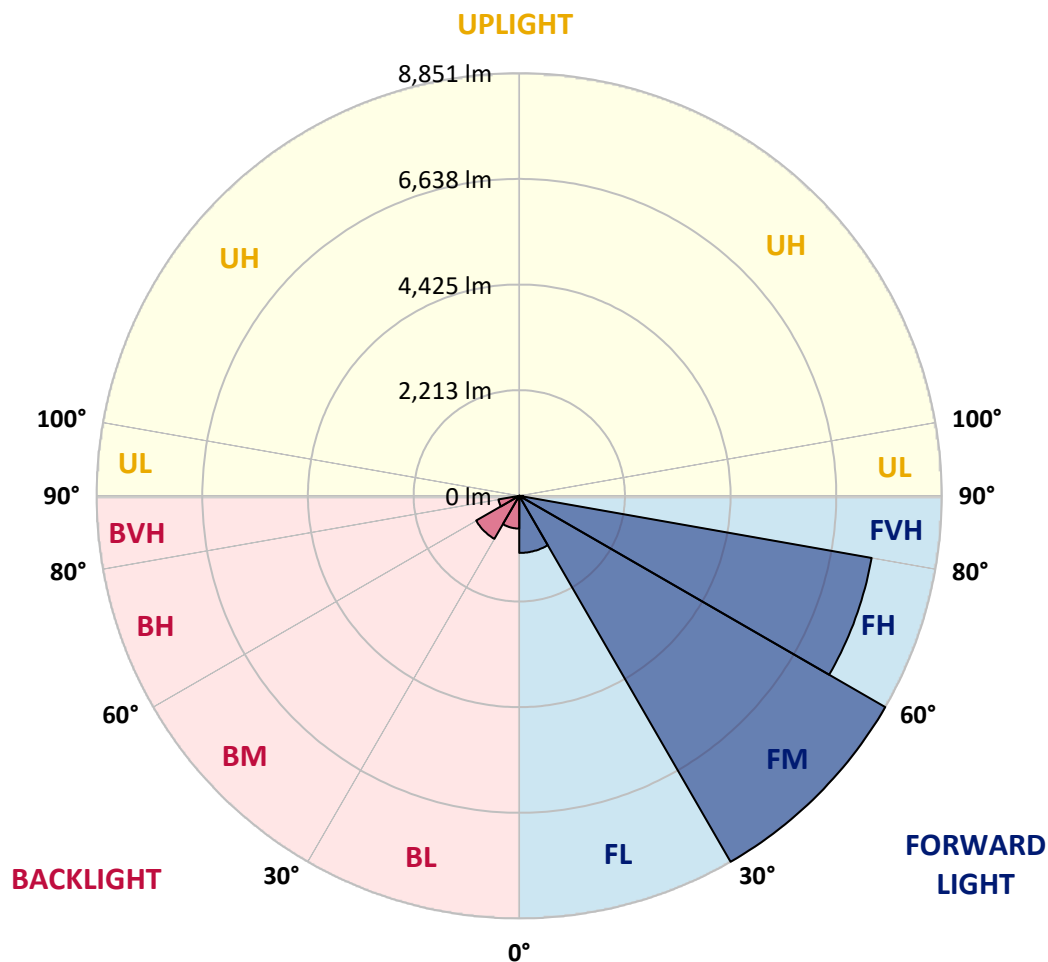
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1196.2	6.0			
FM	(30°-60°)	8850.8	44.7			
FH	(60°-80°)	7493.9	37.9			G3/7500
FVH	(80°-90°)	80.7	0.4			G1/100
BL	(0°-30°)	685.9	3.5	B2/1000		
BM	(30°-60°)	1040.9	5.3	B2/2500		
BH	(60°-80°)	442.0	2.2	B1/500		G1/500
BVH	(80°-90°)	1.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2351.8	2351.8	2351.8	2351.8	2351.8	2351.8	2351.8	2351.8	2351.8	2351.8	2351.8
2.5°	2296.6	2306.9	2314.4	2319.1	2324.7	2336.8	2340.6	2346.2	2349.0	2349.0	2355.6
5°	2205.8	2217.0	2233.0	2246.1	2272.3	2306.0	2330.3	2339.6	2356.5	2371.5	2379.9
7.5°	2121.6	2134.7	2153.4	2184.3	2229.2	2283.5	2334.0	2347.1	2379.9	2411.7	2427.6
10°	2067.3	2077.6	2101.9	2145.9	2204.9	2280.7	2351.8	2367.7	2423.9	2477.2	2507.2
12.5°	2048.6	2058.0	2083.2	2132.8	2205.8	2294.7	2393.0	2416.4	2498.7	2576.4	2618.5
15°	2075.7	2077.6	2104.7	2151.5	2223.6	2329.4	2461.3	2489.4	2593.3	2694.3	2746.7
17.5°	2180.5	2172.1	2186.2	2206.8	2263.8	2375.2	2533.4	2575.5	2714.0	2832.8	2882.4
20°	2442.6	2442.6	2410.8	2354.6	2355.6	2446.3	2630.7	2678.4	2847.8	2985.4	3030.3
22.5°	2890.9	2882.4	2818.8	2681.2	2554.9	2568.9	2749.6	2811.3	3008.8	3155.7	3170.7
25°	3429.9	3419.6	3321.4	3127.6	2908.6	2767.3	2910.5	2981.6	3200.6	3330.7	3299.8
27.5°	4000.8	3992.4	3895.0	3654.5	3342.9	3083.7	3102.4	3169.8	3396.2	3524.4	3426.2
30°	4553.9	4556.7	4460.3	4213.2	3860.4	3487.0	3345.7	3385.0	3586.2	3716.3	3575.9
32.5°	5079.8	5083.6	5000.3	4724.2	4394.8	3955.9	3682.6	3672.3	3807.1	3935.3	3774.3
35°	5548.7	5558.1	5501.0	5286.7	4937.6	4478.1	4119.6	4095.3	4120.6	4265.6	4078.5
37.5°	6000.7	6006.3	5963.3	5782.7	5490.7	5051.8	4671.8	4637.2	4582.9	4694.3	4480.0
40°	6495.8	6481.8	6432.2	6268.4	6017.6	5685.3	5265.1	5205.2	5110.7	5209.9	5007.8
42.5°	6956.2	6940.3	6948.7	6763.4	6551.9	6336.7	5956.7	5853.8	5798.6	5912.8	5655.4
45°	7531.8	7523.4	7551.4	7390.5	7219.2	7062.9	6749.4	6637.1	6612.8	6746.6	6438.7
47.5°	8099.9	8120.4	8207.5	8139.2	8069.9	7932.3	7588.9	7538.3	7553.3	7715.2	7265.1
50°	8573.4	8597.7	8836.4	8915.0	9015.1	8934.6	8590.2	8559.4	8618.3	8764.3	8154.1
52.5°	8915.9	8965.5	9262.2	9624.4	9989.3	10043.6	9700.2	9672.1	9751.6	9774.1	8841.1
55°	9153.6	9197.6	9533.6	10196.2	10939.2	11173.2	10959.8	10851.3	10836.3	10614.5	9563.5
57.5°	9195.7	9191.1	9674.0	10565.8	11684.2	12287.8	12153.1	12046.4	11739.4	11391.3	10391.8
60°	8958.0	8985.2	9545.8	10694.1	12152.1	13131.0	13141.3	13002.8	12524.6	12146.5	11194.7
62.5°	8226.2	8336.6	8902.8	10358.1	12146.5	13470.7	13865.7	13759.9	13188.1	12765.1	12008.9
65°	7039.5	7078.8	7618.8	9207.0	11325.8	13328.5	14518.0	14478.7	13786.1	13365.9	12427.3
67.5°	5140.7	5055.5	5622.6	7250.1	9588.8	12499.3	14985.9	15035.5	14247.5	13489.5	11981.8
68°	4691.5	4716.7	5158.4	6766.3	9134.0	12206.4	15016.8	15092.6	14293.4	13409.0	11738.5
70°	2796.3	2845.0	3239.0	4658.7	6948.7	10549.0	14683.6	14856.7	14020.1	12578.9	10153.1
72.5°	714.1	772.1	1144.6	2085.1	3969.0	7432.6	12395.4	12688.4	12172.7	10204.6	6854.2
75°	293.9	308.8	409.0	686.9	1478.7	3348.5	8170.0	8797.1	8438.6	6109.3	3097.7
77.5°	203.1	213.4	263.0	380.9	640.1	1135.2	4005.5	4458.4	4016.7	2085.1	675.7
80°	146.0	154.4	188.1	253.6	367.8	405.2	1305.5	1509.5	1198.8	457.6	167.5
82.5°	87.0	93.6	140.4	180.6	223.7	193.7	324.7	368.7	347.2	227.4	74.9
85°	43.0	50.5	94.5	129.1	120.7	81.4	99.2	110.4	136.6	138.5	40.2
87.5°	2.8	5.6	55.2	77.7	33.7	18.7	29.0	35.6	48.7	68.3	16.8
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°	2351.8	2351.8	2351.8	2351.8	2351.8	2351.8	2351.8	2351.8	2351.8	2351.8	2351.8
2.5°	2358.4	2359.3	2352.7	2349.9	2351.8	2340.6	2335.9	2337.8	2337.8	2340.6	2335.9
5°	2381.8	2381.8	2370.5	2355.6	2347.1	2325.6	2311.6	2307.8	2305.0	2303.1	2299.4
7.5°	2432.3	2426.7	2407.0	2374.3	2346.2	2299.4	2263.8	2245.1	2235.8	2232.0	2229.2
10°	2513.7	2503.4	2470.7	2409.8	2345.3	2262.0	2184.3	2129.1	2083.2	2064.5	2053.3
12.5°	2623.2	2608.2	2553.0	2451.9	2338.7	2185.2	2016.8	1854.9	1704.2	1642.4	1611.5
15°	2749.6	2728.0	2641.0	2487.5	2300.3	2012.1	1646.2	1362.6	1153.9	1075.3	1041.6
17.5°	2877.8	2849.7	2717.7	2510.0	2185.2	1653.7	1154.8	872.2	732.8	695.3	682.2
20°	3006.9	2965.7	2784.2	2493.1	1925.1	1192.3	761.8	637.3	597.1	585.8	582.1
22.5°	3129.5	3065.9	2844.1	2427.6	1524.5	800.2	602.7	563.4	550.3	543.7	541.9
25°	3236.2	3147.3	2896.5	2225.5	1079.0	604.6	542.8	529.7	512.9	500.7	501.6
27.5°	3336.3	3228.7	2928.3	1892.3	719.7	516.6	502.6	484.8	453.9	436.1	436.1
30°	3457.1	3337.3	2951.7	1456.2	529.7	456.7	445.5	418.3	376.2	352.8	352.8
32.5°	3638.6	3502.0	2936.7	1022.0	438.9	401.5	375.3	337.8	292.0	269.5	268.6
35°	3916.6	3756.5	2830.0	670.1	387.4	349.1	307.0	261.1	220.9	202.1	201.2
37.5°	4290.9	4097.2	2590.5	479.2	347.2	300.4	249.9	199.3	169.4	157.2	156.3
40°	4776.6	4493.1	2247.9	388.4	309.8	253.6	192.8	154.4	133.8	124.5	125.4
42.5°	5359.7	4917.0	1837.1	335.0	273.3	208.7	150.7	121.7	108.6	102.0	100.1
45°	6007.3	5335.3	1406.6	298.5	236.8	168.5	117.9	96.4	86.1	82.4	82.4
47.5°	6719.5	5742.4	1029.4	266.7	197.5	130.1	94.5	78.6	70.2	67.4	66.4
50°	7366.1	6025.1	742.1	233.0	161.9	102.9	76.7	65.5	59.9	56.2	56.2
52.5°	7905.2	6114.0	546.5	196.5	131.0	82.4	63.6	56.2	50.5	47.7	47.7
55°	8379.7	6077.5	406.2	161.9	105.8	67.4	54.3	47.7	43.0	40.2	40.2
57.5°	8834.5	5959.5	303.2	132.0	85.2	54.3	45.9	40.2	35.6	33.7	33.7
60°	9206.0	5763.0	225.5	106.7	68.3	44.0	38.4	32.8	29.0	26.2	26.2
62.5°	9507.4	5545.9	165.6	88.0	54.3	34.6	29.9	27.1	21.5	18.7	18.7
65°	9509.3	5185.6	124.5	73.0	42.1	27.1	22.5	21.5	14.0	11.2	10.3
67.5°	8821.4	4470.6	95.5	62.7	32.8	20.6	16.8	17.8	7.5	4.7	3.7
68°	8571.5	4289.0	89.8	61.8	30.9	19.7	15.9	17.8	6.6	3.7	2.8
70°	7226.7	3412.1	72.1	59.9	27.1	15.0	13.1	17.8	5.6	2.8	1.9
72.5°	4622.2	1980.3	53.3	47.7	20.6	11.2	8.4	15.9	5.6	1.9	0.9
75°	1967.2	613.9	36.5	33.7	12.2	8.4	5.6	10.3	3.7	0.9	0.0
77.5°	414.6	138.5	21.5	20.6	8.4	5.6	3.7	2.8	0.9	0.0	0.0
80°	106.7	40.2	11.2	10.3	4.7	2.8	1.9	0.0	0.0	0.0	0.0
82.5°	33.7	15.9	6.6	4.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.8	9.4	3.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.4	2.8	0.9	0.0	0.0	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)