

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: P321998

Luminaire Tested: **GAN-SA4B-760-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-760-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16399 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 171
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

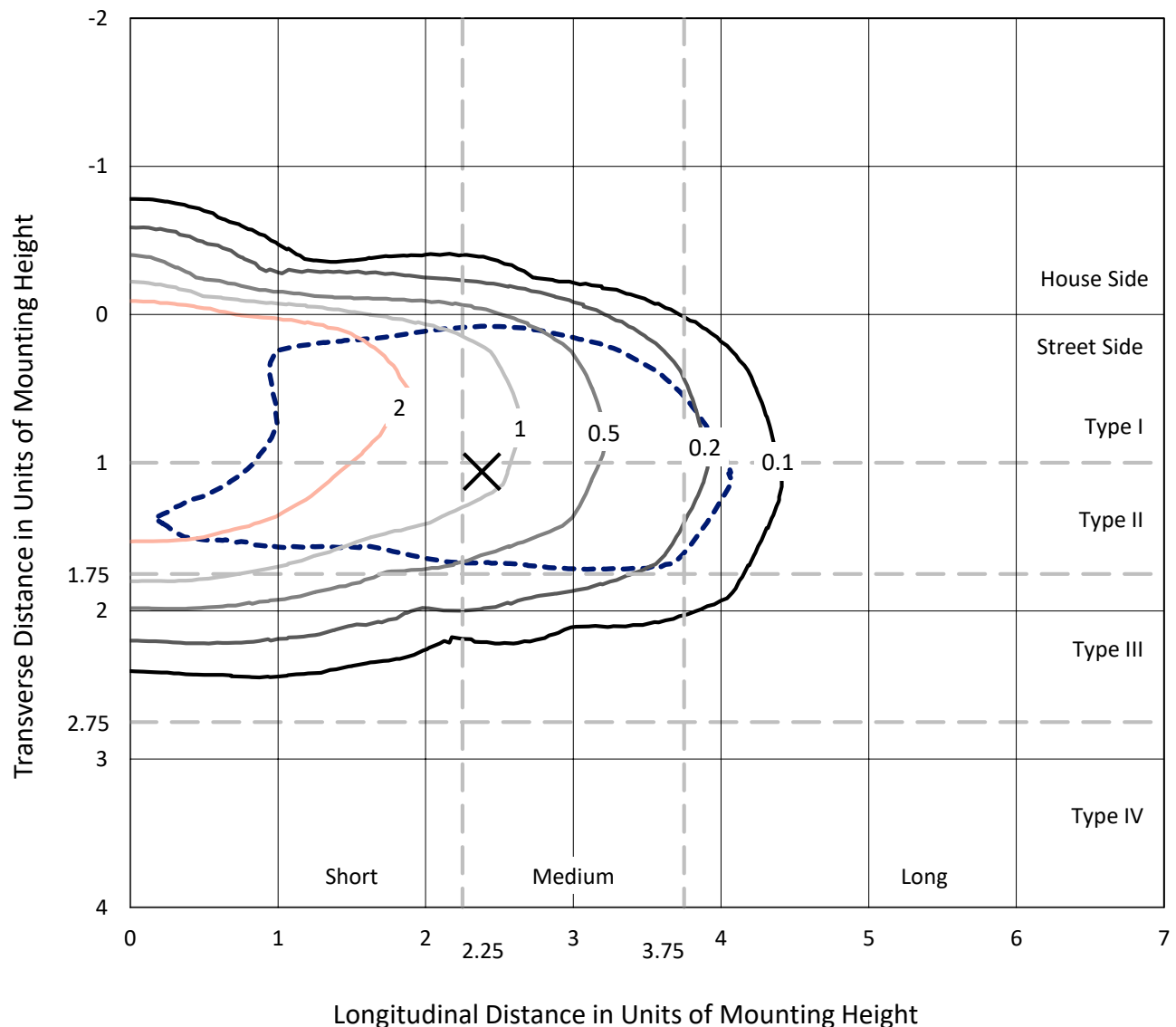


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Iso-Footcandle Lines of Horizontal Illumination

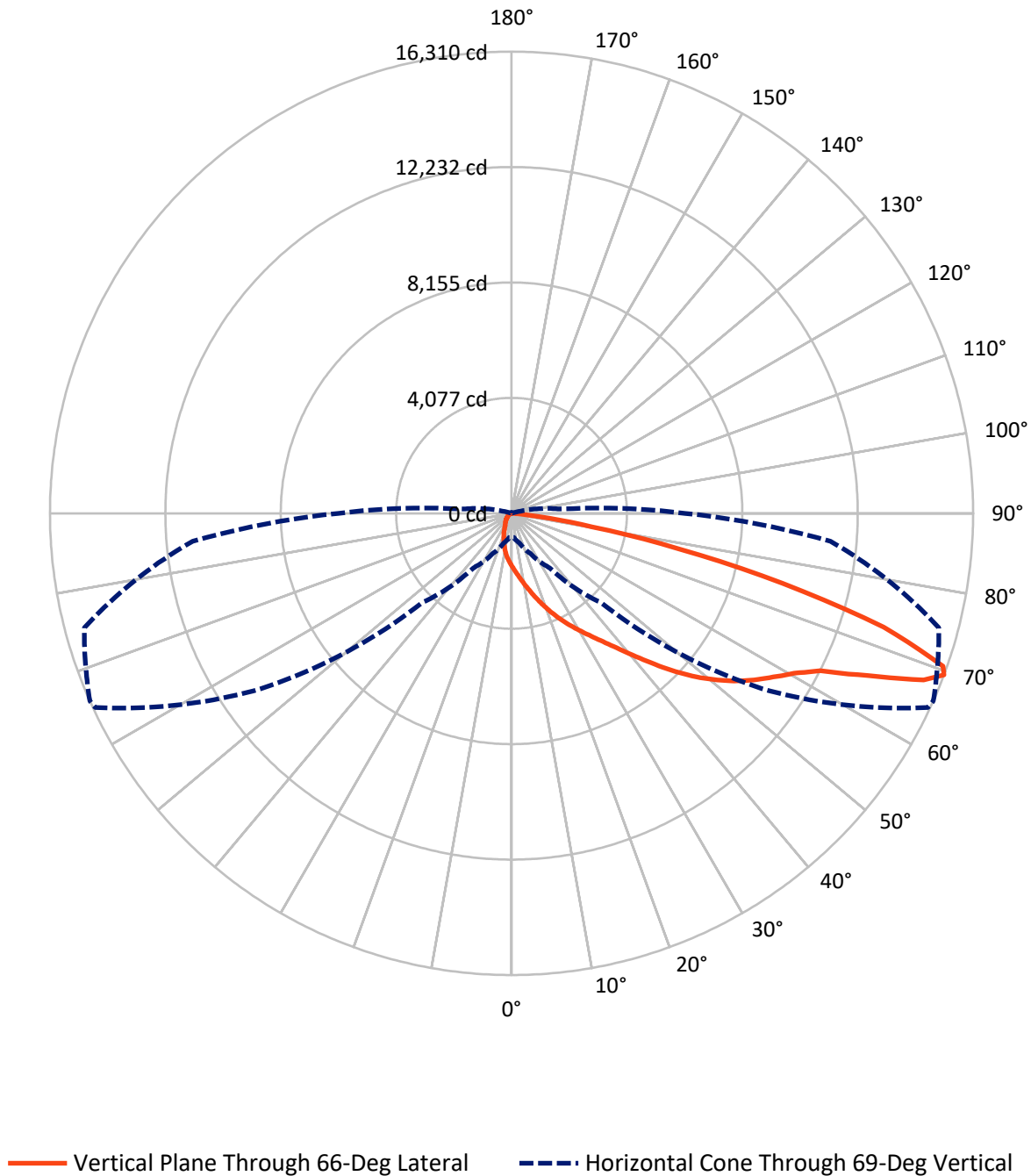
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	983.7	0.0	983.7
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	15415.3	0.0	15415.3
	% Fixture	94.0	0.0	94.0
Total	Lumens	16399.0	0.0	16399.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.4	1.1
10°-20°	536.9	3.3
20°-30°	934.9	5.7
30°-40°	1640.3	10.0
40°-50°	2745.7	16.7
50°-60°	4035.9	24.6
60°-70°	4143.9	25.3
70°-80°	2045.7	12.5
80°-90°	135.3	0.8
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°	16399.0	100.0
0°-180°	16399.0	100.0

Coefficient of Utilization



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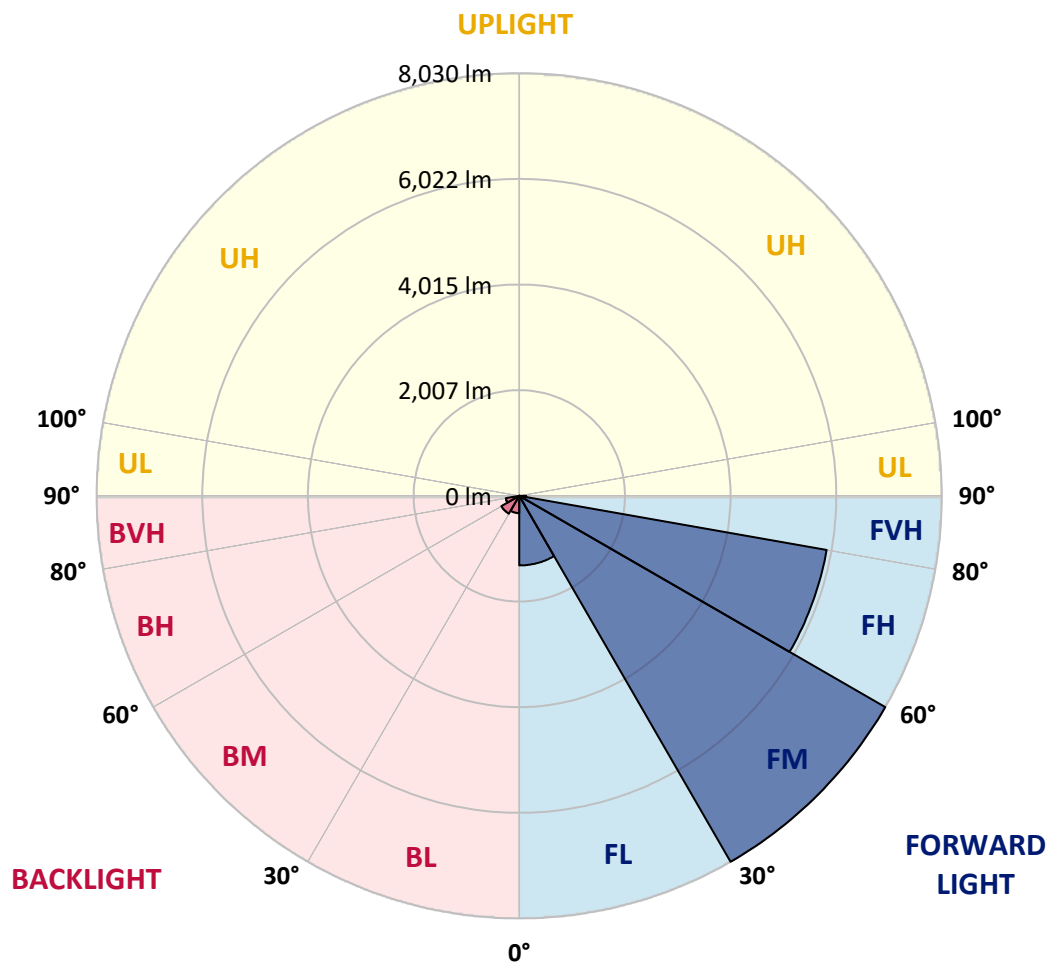
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1323.2	8.1			
FM	(30°-60°)	8029.7	49.0			
FH	(60°-80°)	5930.3	36.2			G3/7500
FVH	(80°-90°)	132.0	0.8			G2/225
BL	(0°-30°)	329.0	2.0	B1/500		
BM	(30°-60°)	392.2	2.4	B1/1000		
BH	(60°-80°)	259.2	1.6	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1866.3	1866.3	1866.3	1866.3	1866.3	1866.3	1866.3	1866.3	1866.3	1866.3	1866.3
2.5°	2196.5	2187.2	2183.3	2166.1	2136.5	2114.0	2070.3	2019.7	2010.4	1961.3	1901.3
5°	2481.6	2473.8	2468.4	2444.2	2413.8	2357.0	2277.5	2183.3	2165.4	2071.9	1951.9
7.5°	2680.2	2694.2	2694.2	2678.7	2640.5	2597.7	2500.3	2371.8	2349.2	2205.9	2019.7
10°	2796.3	2813.4	2826.6	2839.9	2834.4	2817.3	2725.4	2580.5	2553.3	2363.2	2098.4
12.5°	2807.2	2824.3	2861.7	2917.0	2970.7	3009.7	2952.1	2811.9	2780.7	2545.5	2191.8
15°	2746.4	2764.3	2822.0	2929.5	3059.5	3173.3	3192.0	3068.1	3036.2	2762.8	2308.7
17.5°	2640.5	2652.2	2734.7	2883.5	3087.6	3296.3	3409.3	3343.1	3313.5	3011.3	2438.8
20°	2561.8	2570.4	2642.8	2802.5	3070.4	3373.4	3614.9	3635.2	3604.0	3277.6	2579.7
22.5°	2696.6	2712.2	2714.5	2790.0	3023.7	3411.6	3795.6	3922.6	3899.2	3560.4	2718.4
25°	3065.0	3082.9	3023.7	2977.0	3063.4	3428.7	3950.6	4217.0	4198.3	3864.9	2857.8
27.5°	3551.8	3570.5	3494.2	3354.7	3271.4	3493.4	4088.5	4516.1	4515.3	4187.4	3008.1
30°	4030.1	4048.8	3970.9	3831.4	3639.8	3676.4	4207.7	4829.2	4833.9	4520.0	3167.8
32.5°	4531.7	4555.0	4474.8	4295.7	4095.5	3992.7	4375.1	5143.9	5170.4	4905.6	3347.7
35°	5101.8	5105.0	4992.0	4804.3	4573.7	4415.6	4643.8	5496.7	5559.8	5383.0	3576.0
37.5°	5661.1	5683.7	5591.0	5295.0	5083.1	4904.0	5043.4	5937.6	6027.2	5966.4	3874.3
40°	6075.5	6123.0	6109.7	5790.4	5589.4	5461.7	5539.6	6461.8	6575.5	6645.6	4250.5
42.5°	6335.6	6371.5	6432.2	6239.8	6057.6	6078.6	6125.3	7072.5	7212.7	7419.9	4682.8
45°	6633.9	6651.1	6701.7	6616.8	6493.7	6705.6	6746.9	7760.2	7907.5	8252.5	5162.6
47.5°	6998.5	7039.0	7053.0	6975.1	6919.0	7260.2	7345.9	8385.7	8592.1	9144.4	5670.4
50°	7462.7	7473.6	7497.7	7447.1	7391.0	7736.9	7883.3	9042.3	9230.0	10039.3	6171.3
52.5°	7916.8	7955.7	8039.9	8007.9	7985.3	8142.7	8362.3	9634.3	9843.8	10785.5	6671.3
55°	8047.7	8081.2	8371.7	8570.3	8754.1	8642.7	8820.3	10164.7	10391.4	11452.3	7152.7
57.5°	7525.0	7592.8	8095.9	8613.1	9375.7	9420.1	9449.7	10709.2	10912.5	11963.2	7653.5
60°	6204.0	6217.2	7042.9	7930.0	9272.9	10098.5	10368.8	11294.1	11464.7	12439.1	8253.3
62.5°	3945.9	4080.7	4986.6	6239.0	8185.5	10000.4	11480.3	12179.0	12241.3	13010.1	9113.2
65°	1879.5	1966.7	2619.5	3854.8	5929.0	8744.0	12247.5	13779.6	13807.7	14141.8	10262.1
67.5°	1040.6	1082.7	1393.5	2075.0	3466.1	6183.7	11937.5	15675.5	15702.0	15297.7	11270.0
69°	814.0	849.8	1094.4	1564.0	2350.0	4444.4	10802.6	16230.8	16309.5	15628.7	11305.8
70°	690.9	725.9	942.5	1321.0	1889.6	3434.2	9615.6	16093.0	16176.3	15597.6	11038.7
72.5°	422.9	443.2	627.8	930.0	1266.5	1727.6	5929.8	13609.8	13750.8	14307.7	9487.1
75°	285.1	296.0	392.6	641.8	905.9	889.5	3080.6	9593.0	9898.3	11129.8	7007.0
77.5°	204.1	214.2	263.3	415.2	634.8	587.3	1395.0	5961.7	6027.2	6675.2	3821.3
80°	116.1	125.4	186.2	246.9	430.7	391.8	554.6	2847.7	2880.4	2862.5	1275.8
82.5°	60.8	68.5	102.0	162.8	276.5	256.3	230.6	953.4	958.1	796.8	279.6
85°	11.7	14.0	50.6	111.4	142.5	111.4	94.2	223.5	228.2	201.7	69.3
87.5°	0.0	0.8	20.3	24.9	28.0	28.8	30.4	43.6	46.7	63.1	18.7
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°	1866.3	1866.3	1866.3	1866.3	1866.3	1866.3	1866.3	1866.3	1866.3	1866.3	1866.3
2.5°	1874.8	1846.8	1793.0	1730.7	1682.4	1634.9	1597.5	1558.6	1544.6	1537.6	1536.8
5°	1893.5	1834.3	1720.6	1603.8	1508.0	1417.6	1353.0	1291.4	1262.6	1249.4	1243.9
7.5°	1924.7	1829.7	1646.6	1468.2	1330.4	1217.4	1127.9	1060.9	1027.4	1013.4	1007.9
10°	1961.3	1823.4	1560.1	1324.9	1148.9	1032.1	943.3	877.0	840.4	824.9	817.1
12.5°	2004.1	1812.5	1460.4	1180.0	993.9	877.0	769.6	687.8	645.7	627.8	619.2
15°	2057.1	1801.6	1356.1	1043.7	857.6	715.0	597.4	542.1	533.6	530.4	531.2
17.5°	2109.3	1784.5	1242.4	909.0	714.3	558.5	498.5	495.4	496.9	496.9	496.9
20°	2156.0	1745.5	1118.5	793.7	577.9	471.2	458.8	453.3	449.4	446.3	442.4
22.5°	2192.6	1693.3	999.3	679.2	472.0	431.5	412.0	394.9	380.9	371.5	366.9
25°	2217.5	1624.0	890.3	569.4	424.5	392.6	357.5	328.7	306.9	293.6	288.2
27.5°	2236.2	1549.2	792.9	476.7	391.8	347.4	301.4	267.2	244.6	232.9	228.2
30°	2249.5	1464.3	707.2	419.1	355.2	299.9	250.8	217.3	201.0	194.7	191.6
32.5°	2261.9	1370.1	626.2	391.8	320.9	256.3	210.3	184.6	174.5	166.7	164.3
35°	2293.1	1282.9	549.1	363.0	285.9	218.9	180.7	162.0	151.9	147.2	145.7
37.5°	2367.1	1218.2	475.1	333.4	250.8	189.3	158.1	144.9	135.5	130.9	129.3
40°	2486.3	1185.5	412.8	301.4	216.5	166.7	143.3	130.9	120.7	113.7	112.2
42.5°	2661.5	1190.2	369.2	269.5	189.3	148.8	129.3	114.5	103.6	97.4	95.8
45°	2874.2	1224.4	338.8	238.3	166.7	134.8	113.7	98.1	88.0	82.6	81.0
47.5°	3104.7	1279.7	313.9	210.3	148.8	121.5	98.1	81.8	73.2	68.5	67.8
50°	3347.7	1333.5	288.2	183.0	133.2	108.3	82.6	67.8	60.8	56.9	55.3
52.5°	3593.9	1395.8	264.8	158.1	120.0	92.7	68.5	55.3	49.8	46.7	45.2
55°	3858.7	1442.5	242.2	138.6	106.7	78.7	56.9	46.0	41.3	37.4	36.6
57.5°	4170.3	1515.0	218.9	120.0	91.1	65.4	46.7	36.6	32.7	28.8	28.0
60°	4590.9	1599.9	193.9	105.9	74.8	53.7	38.2	29.6	24.9	21.8	21.0
62.5°	5145.5	1694.1	162.8	92.7	60.8	43.6	30.4	23.4	17.9	14.0	14.0
65°	5848.8	1847.6	133.2	77.9	49.8	35.8	23.4	17.1	10.1	6.2	6.2
67.5°	6259.3	1874.0	107.5	63.9	40.5	30.4	19.5	11.7	3.1	0.8	0.0
69°	6127.7	1720.6	91.1	54.5	35.1	28.8	17.9	8.6	1.6	0.0	0.0
70°	5880.0	1573.4	80.2	48.3	31.9	27.3	17.1	6.2	1.6	0.0	0.0
72.5°	4858.8	1120.1	60.8	35.8	23.4	24.1	15.6	3.9	1.6	0.0	0.0
75°	3539.3	680.8	43.6	24.9	14.8	17.9	10.9	1.6	0.8	0.0	0.0
77.5°	1969.1	320.9	27.3	14.0	9.3	10.9	5.5	0.0	0.0	0.0	0.0
80°	639.5	87.2	12.5	7.8	5.5	6.2	2.3	0.0	0.0	0.0	0.0
82.5°	118.4	24.9	7.0	3.9	1.6	1.6	0.0	0.0	0.0	0.0	0.0
85°	25.7	10.1	3.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.6	3.1	0.8	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)