

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: P321628

Luminaire Tested: **GAN-SA4A-750-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321628
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-750-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14457 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

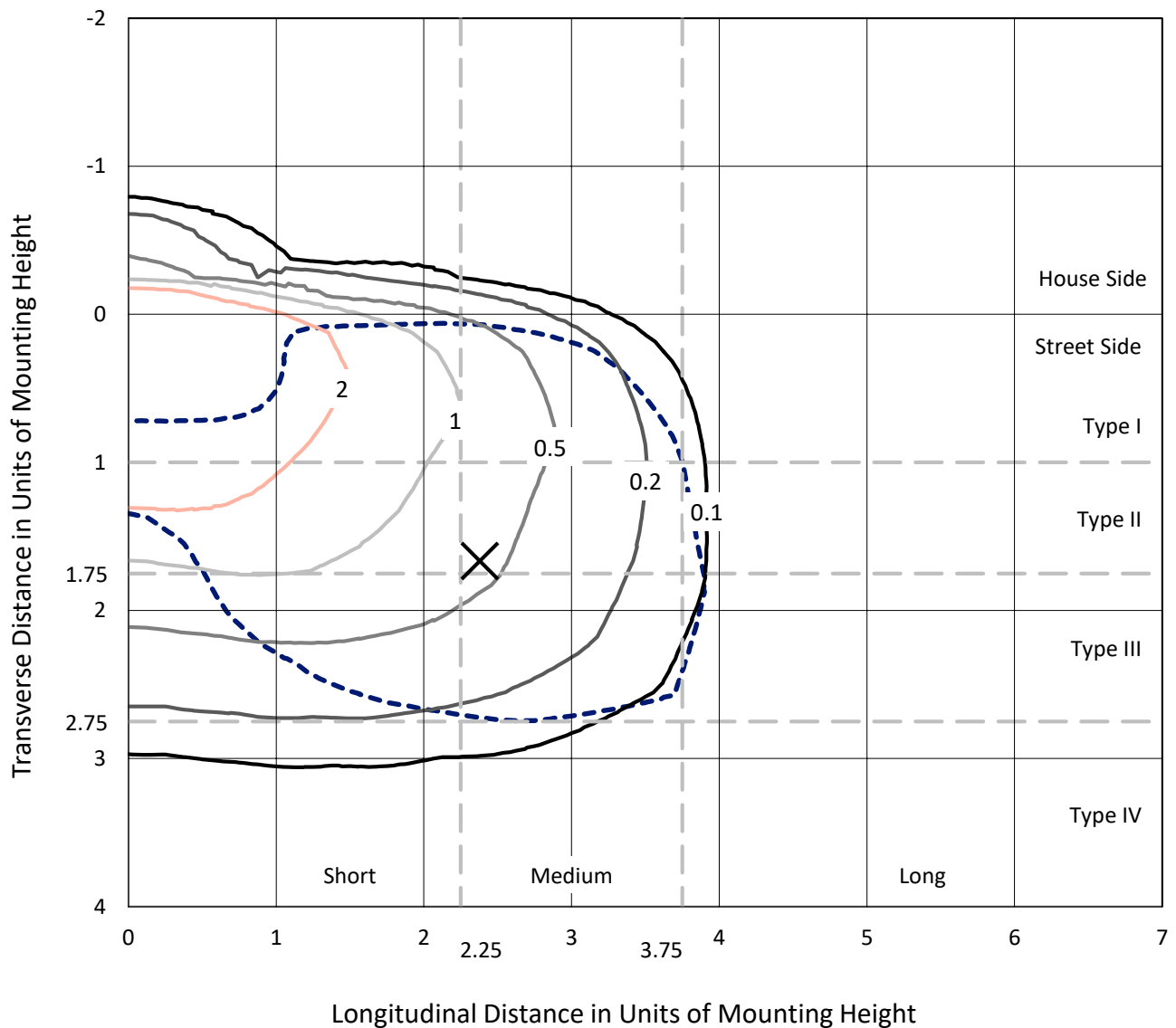
Input Watts (W): 129
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

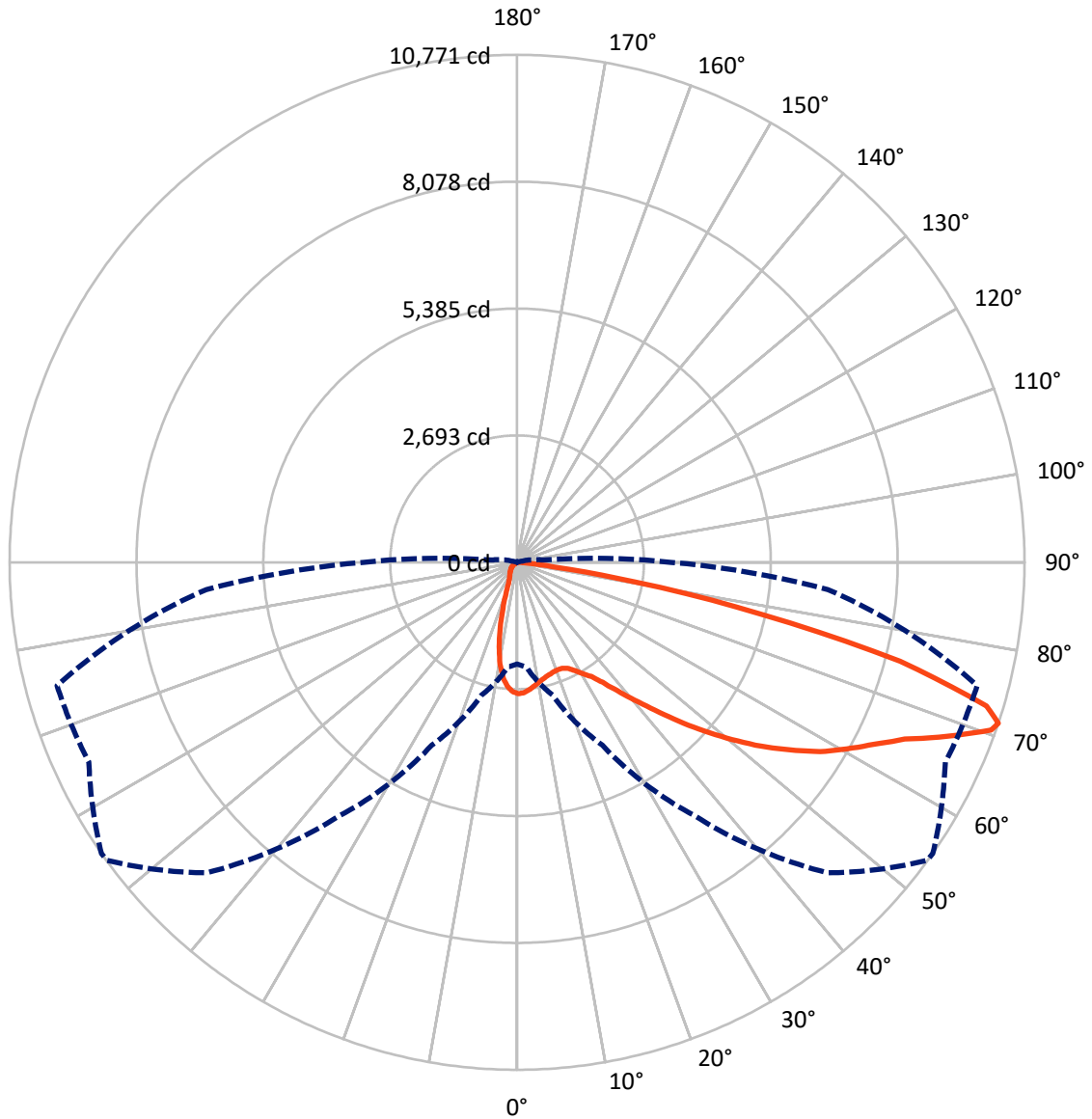
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1144.6	0.0	1144.6
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	13312.4	0.0	13312.4
	% Fixture	92.1	0.0	92.1
Total	Lumens	14457.0	0.0	14457.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.7	1.6
10°-20°	536.7	3.7
20°-30°	862.5	6.0
30°-40°	1465.4	10.1
40°-50°	2274.4	15.7
50°-60°	3057.9	21.2
60°-70°	3740.8	25.9
70°-80°	2187.2	15.1
80°-90°	94.5	0.7
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°	14457.0	100.0
0°-180°	14457.0	100.0

Coefficient of Utilization



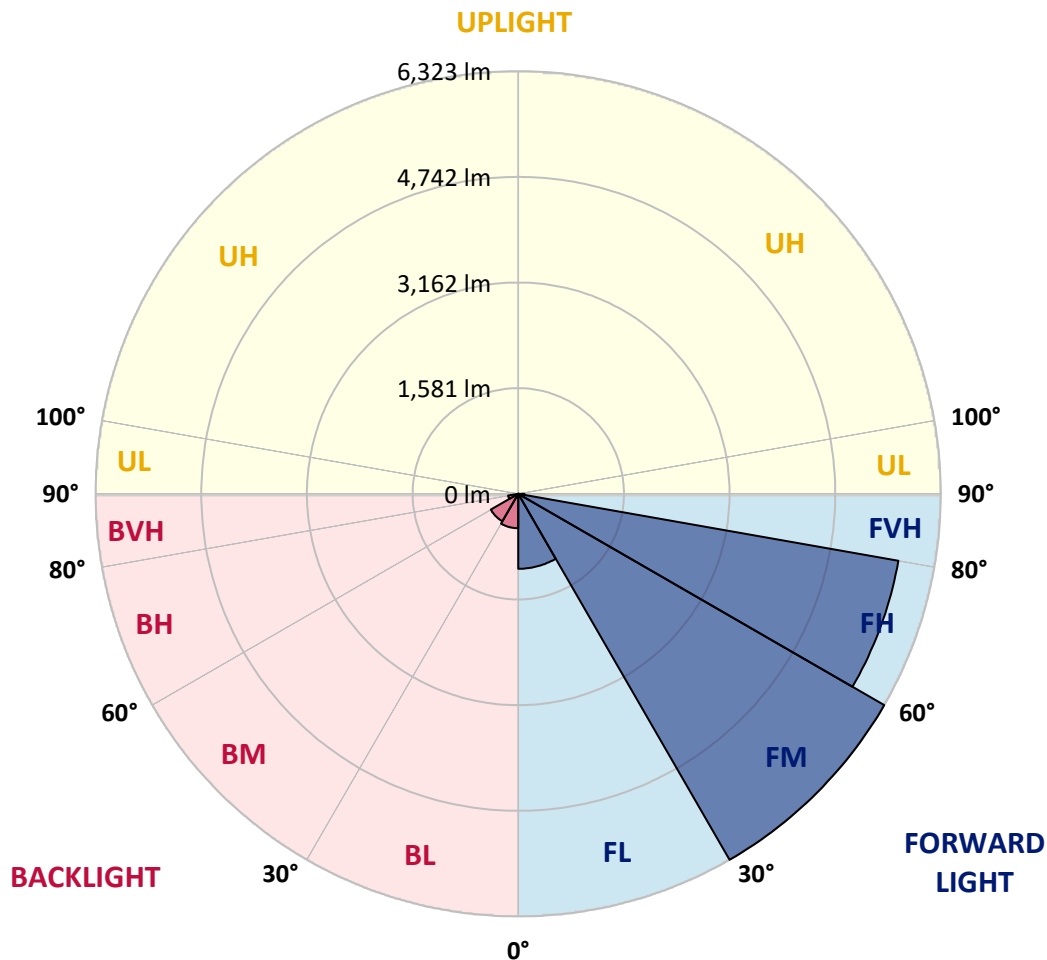
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1121.7	7.8			
FM (30°-60°)	6323.1	43.7			
FH (60°-80°)	5774.6	39.9			G3/7500
FVH (80°-90°)	93.1	0.6			G1/100
BL (0°-30°)	515.2	3.6	B2/1000		
BM (30°-60°)	474.6	3.3	B1/1000		
BH (60°-80°)	153.3	1.1	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2788.1	2788.1	2788.1	2788.1	2788.1	2788.1	2788.1	2788.1	2788.1	2788.1	2788.1
2.5°	2706.3	2709.5	2721.2	2726.4	2738.7	2759.5	2769.9	2770.6	2787.4	2793.9	2799.1
5°	2514.8	2534.3	2553.7	2574.5	2612.2	2662.1	2711.5	2716.0	2770.6	2810.8	2832.2
7.5°	2349.9	2367.4	2390.8	2423.9	2477.1	2555.7	2638.1	2647.9	2751.1	2842.6	2890.6
10°	2180.5	2194.8	2228.5	2277.2	2350.6	2455.7	2566.7	2583.0	2733.6	2885.5	2969.8
12.5°	1999.4	2007.8	2048.7	2118.8	2226.6	2360.3	2506.4	2527.8	2722.5	2934.8	3063.3
15°	1861.8	1865.6	1904.6	1977.3	2100.6	2274.6	2459.6	2485.6	2725.1	2993.9	3165.2
17.5°	1826.7	1828.6	1849.4	1899.4	2008.5	2198.0	2422.6	2454.4	2732.9	3051.6	3267.8
20°	1968.9	1955.2	1933.8	1926.0	1972.8	2151.9	2400.5	2436.2	2743.3	3102.9	3360.0
22.5°	2359.0	2318.8	2229.8	2111.0	2039.0	2155.2	2406.4	2442.1	2776.4	3165.9	3466.4
25°	2938.0	2882.2	2731.0	2497.3	2272.7	2248.6	2455.1	2491.4	2840.7	3241.2	3568.4
27.5°	3596.9	3541.7	3356.7	3023.1	2640.1	2433.7	2566.7	2600.5	2936.1	3308.1	3646.3
30°	4227.9	4212.3	3994.2	3615.1	3102.3	2733.6	2710.8	2739.4	3006.8	3348.3	3707.9
32.5°	4762.8	4738.1	4562.9	4194.1	3631.3	3093.8	2880.3	2888.7	3060.1	3400.2	3788.4
35°	5258.7	5228.2	5074.4	4725.8	4174.0	3534.0	3141.2	3128.9	3176.3	3504.7	3905.3
37.5°	5691.7	5719.6	5548.9	5217.2	4660.9	3991.6	3493.1	3456.1	3358.0	3674.8	4074.7
40°	6053.9	6053.9	5965.0	5688.5	5186.7	4464.8	3891.0	3842.3	3631.3	3937.1	4289.6
42.5°	6184.4	6212.3	6245.4	6089.0	5657.3	4956.9	4334.4	4283.7	4016.3	4309.0	4560.9
45°	6192.2	6236.4	6405.8	6405.1	6082.5	5445.7	4834.2	4810.2	4509.6	4786.8	4897.2
47.5°	6082.5	6137.7	6416.8	6575.2	6419.4	5900.7	5380.8	5350.9	5089.3	5372.3	5249.0
50°	5913.1	5974.1	6298.7	6642.1	6648.6	6296.7	5956.6	5911.8	5727.4	6041.6	5612.5
52.5°	5609.9	5728.1	6192.9	6657.6	6799.2	6638.8	6504.4	6485.0	6441.5	6686.2	5902.0
55°	4961.4	5092.6	5927.4	6662.8	6938.7	6942.0	7017.9	7023.1	7110.8	7288.6	6117.6
57.5°	4655.0	4729.0	5463.9	6687.5	7145.8	7286.0	7541.1	7581.4	7717.1	7860.5	6363.6
60°	4462.2	4549.9	5235.4	6653.8	7471.0	7737.2	8026.0	8039.7	8185.1	8450.6	6696.6
62.5°	4308.4	4394.7	5091.3	6523.9	7836.5	8279.9	8499.9	8501.2	8610.3	9153.6	7075.0
65°	3928.6	4001.3	4799.8	6377.9	8078.0	8816.7	9050.4	9042.0	9130.9	9894.9	7514.5
67.5°	3379.5	3435.3	4204.5	5824.1	7987.1	9304.9	9881.3	9853.4	9745.6	10535.6	7687.2
70°	2612.8	2632.9	3313.9	4853.7	7135.4	9492.5	10684.3	10670.0	10122.8	10420.7	7054.3
71°	2159.7	2225.9	2920.5	4283.7	6564.8	9319.1	10762.2	10770.6	10028.0	10107.9	6618.7
72.5°	1254.2	1310.6	2116.9	3289.9	5573.6	8596.0	10358.4	10419.5	9585.3	9193.9	5653.4
75°	268.7	287.6	784.8	1592.4	3065.9	6024.7	8176.0	8393.5	7812.5	6254.5	3407.4
77.5°	187.0	201.9	336.3	722.5	1013.3	2977.0	5078.9	5324.3	4667.4	2350.6	1090.6
80°	148.0	164.9	262.3	357.0	273.9	960.1	2379.1	2529.1	1556.7	524.5	183.7
82.5°	82.4	98.0	204.5	192.8	105.2	182.4	666.0	753.0	311.6	105.8	43.5
85°	24.0	29.2	131.8	140.2	44.8	35.1	113.6	140.9	59.1	27.9	19.5
87.5°	0.0	0.0	63.6	53.9	13.0	5.2	10.4	11.7	11.7	11.7	13.0
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°	2788.1	2788.1	2788.1	2788.1	2788.1	2788.1	2788.1	2788.1	2788.1	2788.1	2788.1
2.5°	2799.1	2803.7	2787.4	2766.0	2743.3	2715.4	2686.2	2663.4	2662.8	2651.8	2640.7
5°	2833.5	2830.9	2786.1	2718.0	2637.5	2553.7	2473.9	2383.7	2353.8	2316.8	2304.5
7.5°	2897.1	2879.0	2784.2	2634.9	2458.3	2283.0	2101.9	1919.5	1841.6	1771.5	1759.2
10°	2977.0	2942.6	2771.9	2510.2	2186.3	1863.1	1589.8	1341.8	1232.7	1149.0	1145.1
12.5°	3060.1	3007.5	2737.5	2322.0	1829.9	1375.5	1060.7	816.6	725.7	667.3	672.5
15°	3147.1	3068.5	2663.4	2068.2	1424.2	933.5	651.7	508.3	471.9	457.0	460.9
17.5°	3236.0	3110.7	2560.2	1762.4	1023.7	602.4	451.2	410.9	410.9	414.2	415.5
20°	3313.2	3133.4	2408.3	1419.7	693.9	438.8	394.7	388.8	392.1	397.3	397.9
22.5°	3389.8	3134.7	2210.3	1072.4	485.6	384.3	375.9	373.3	375.2	381.0	381.7
25°	3452.2	3119.1	1962.4	762.7	387.5	362.2	358.3	357.0	358.3	365.5	365.5
27.5°	3477.5	3062.7	1659.9	536.2	347.3	337.6	336.3	337.6	339.5	344.7	345.3
30°	3480.1	2964.0	1330.1	388.2	314.8	304.4	307.0	311.6	309.6	308.3	309.6
32.5°	3486.6	2849.8	1008.8	319.4	287.6	271.3	268.1	268.1	260.3	255.8	253.2
35°	3508.0	2715.4	731.6	286.9	259.7	240.8	228.5	214.2	199.3	191.5	189.6
37.5°	3541.7	2574.5	523.9	265.5	235.0	213.6	190.2	164.9	143.5	137.6	137.6
40°	3603.4	2429.1	387.5	248.6	215.5	188.9	153.8	120.7	101.3	98.0	98.0
42.5°	3700.8	2275.9	309.0	233.7	198.6	163.6	117.5	87.6	73.4	71.4	70.8
45°	3802.1	2107.1	270.0	219.4	180.5	134.4	87.0	64.9	56.5	54.5	54.5
47.5°	3903.3	1927.3	251.2	205.8	162.9	104.5	64.9	51.3	47.4	47.4	48.0
50°	3989.0	1739.7	237.6	190.8	140.2	79.2	51.3	43.5	42.2	44.8	45.4
52.5°	4010.4	1555.4	220.7	172.0	112.3	60.4	42.2	38.3	38.3	38.3	38.3
55°	3997.4	1412.5	198.6	148.7	83.1	48.0	36.4	33.8	33.1	33.1	33.1
57.5°	4041.6	1328.2	159.0	115.5	59.7	38.9	31.8	29.9	28.6	27.9	27.9
60°	4130.5	1273.0	113.6	83.1	44.8	32.5	27.3	25.3	23.4	22.1	22.1
62.5°	4248.7	1224.9	84.4	61.7	34.4	26.0	22.7	20.8	18.2	16.9	16.9
65°	4339.5	1139.3	64.3	46.1	26.0	20.8	17.5	16.9	13.0	11.7	11.0
67.5°	4200.6	951.0	51.9	33.8	19.5	16.2	13.6	13.0	7.8	6.5	6.5
70°	3602.8	662.1	41.5	24.7	14.3	13.0	11.0	8.4	5.8	5.2	5.2
71°	3267.2	553.1	37.7	20.8	12.3	12.3	10.4	7.1	5.2	4.5	4.5
72.5°	2714.1	392.7	31.8	16.2	11.0	13.0	11.0	6.5	5.2	4.5	3.9
75°	1575.5	164.2	22.1	11.0	8.4	15.6	14.3	5.8	3.9	3.2	3.2
77.5°	473.9	60.4	12.3	7.1	6.5	13.6	16.2	5.2	1.9	0.6	0.6
80°	86.3	26.0	7.8	4.5	4.5	8.4	12.3	2.6	0.0	0.0	0.0
82.5°	30.5	13.0	4.5	2.6	1.9	3.9	5.8	0.0	0.0	0.0	0.0
85°	17.5	9.1	2.6	1.3	0.0	0.6	1.3	0.0	0.0	0.0	0.0
87.5°	11.7	2.6	0.0	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)