

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: P321509

Luminaire Tested: **GAN-SA5A-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321509
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-SA5A-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 14980 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

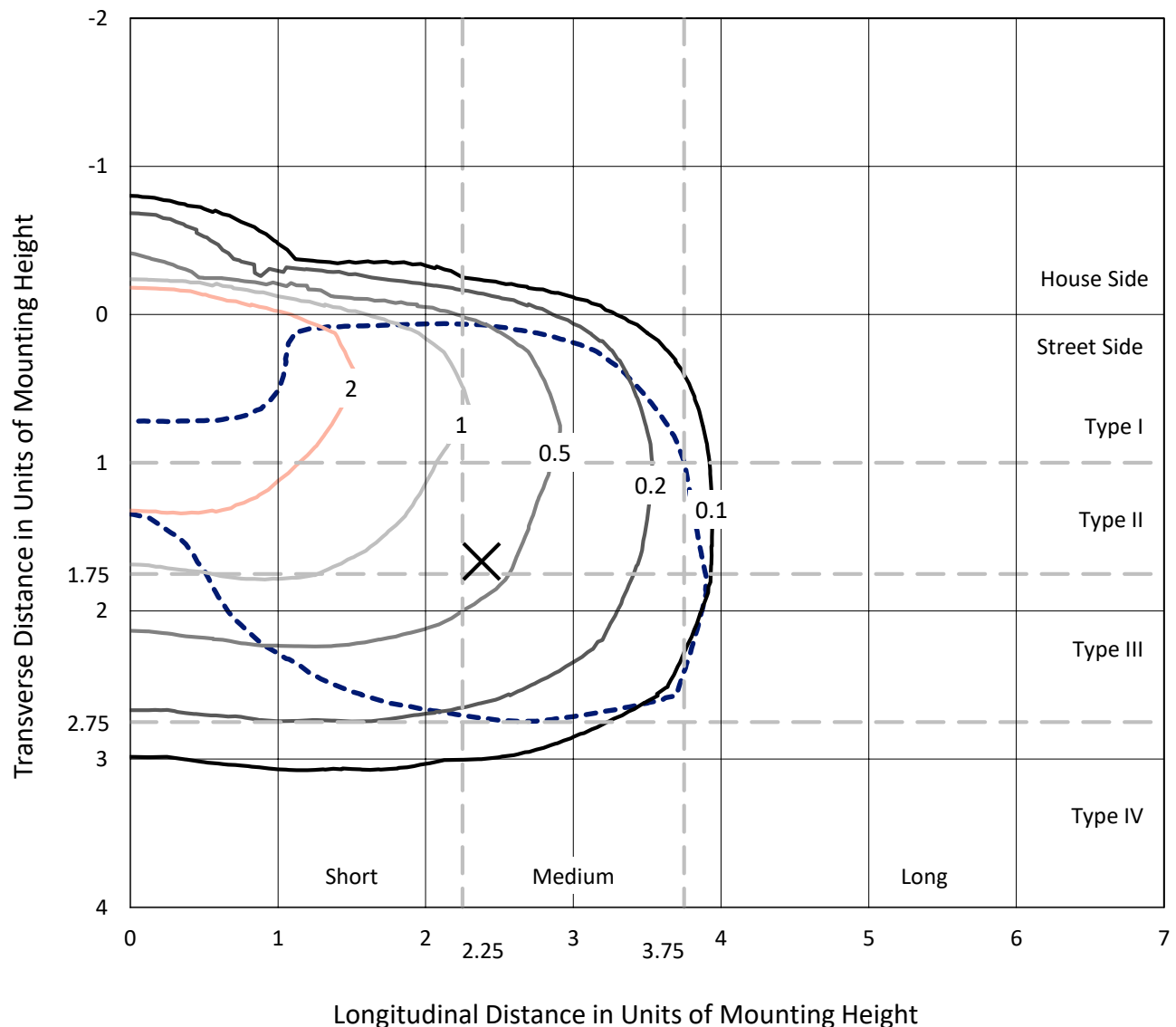
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

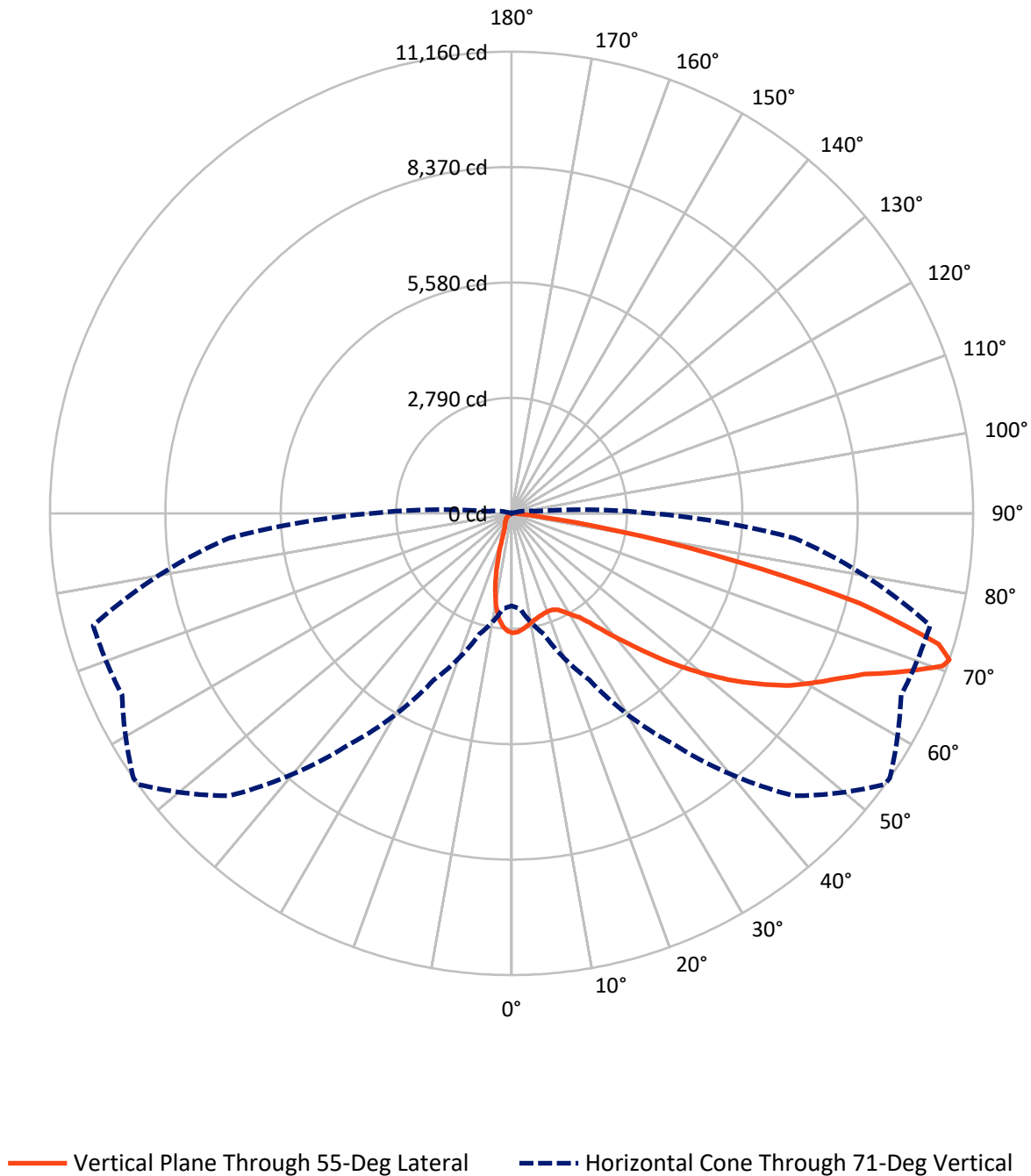
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1186.0	0.0	1186.0
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	13794.0	0.0	13794.0
	% Fixture	92.1	0.0	92.1
Total	Lumens	14980.0	0.0	14980.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.3	1.6
10°-20°	556.1	3.7
20°-30°	893.7	6.0
30°-40°	1518.4	10.1
40°-50°	2356.7	15.7
50°-60°	3168.5	21.2
60°-70°	3876.1	25.9
70°-80°	2266.3	15.1
80°-90°	98.0	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°	14980.0	100.0
0°-180°	14980.0	100.0

Coefficient of Utilization



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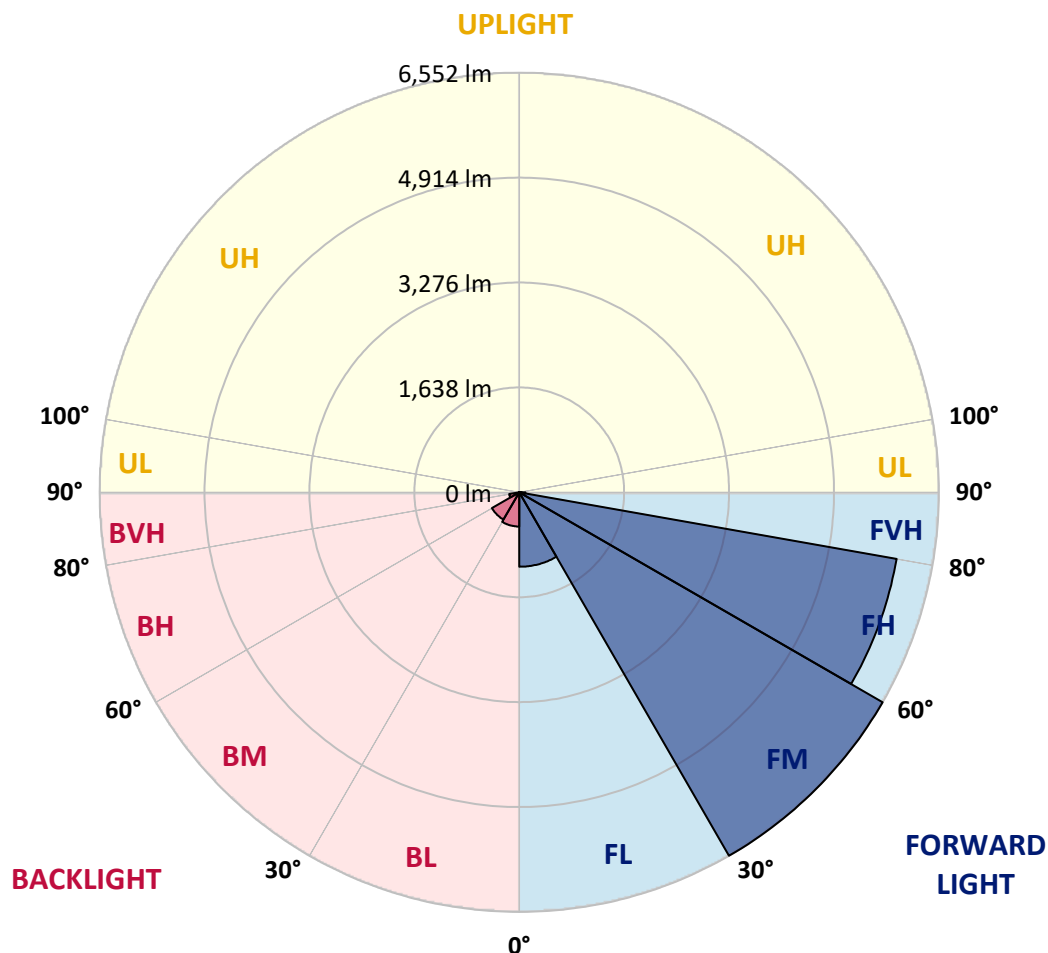
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1162.2	7.8			
FM	(30°-60°)	6551.8	43.7			
FH	(60°-80°)	5983.5	39.9			G3/7500
FVH	(80°-90°)	96.4	0.6			G1/100
BL	(0°-30°)	533.8	3.6	B2/1000		
BM	(30°-60°)	491.7	3.3	B1/1000		
BH	(60°-80°)	158.9	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°	2888.9	2888.9	2888.9	2888.9	2888.9	2888.9	2888.9	2888.9	2888.9	2888.9	2888.9
2.5°	2804.2	2807.6	2819.7	2825.0	2837.8	2859.4	2870.1	2870.8	2888.3	2895.0	2900.4
5°	2605.8	2625.9	2646.1	2667.7	2706.7	2758.5	2809.6	2814.3	2870.8	2912.5	2934.7
7.5°	2434.9	2453.1	2477.3	2511.6	2566.8	2648.1	2733.6	2743.7	2850.6	2945.4	2995.2
10°	2259.4	2274.2	2309.1	2359.6	2435.6	2544.6	2659.6	2676.4	2832.4	2989.8	3077.3
12.5°	2071.7	2080.4	2122.8	2195.5	2307.1	2445.7	2597.0	2619.2	2821.0	3041.0	3174.1
15°	1929.1	1933.1	1973.5	2048.8	2176.6	2356.9	2548.6	2575.5	2823.7	3102.2	3279.7
17.5°	1892.8	1894.8	1916.3	1968.1	2081.1	2277.5	2510.3	2543.2	2831.8	3162.0	3386.0
20°	2040.1	2026.0	2003.8	1995.7	2044.1	2229.8	2487.4	2524.4	2842.5	3215.2	3481.5
22.5°	2444.3	2402.6	2310.5	2187.4	2112.7	2233.1	2493.4	2530.4	2876.8	3280.4	3591.8
25°	3044.3	2986.5	2829.8	2587.6	2354.9	2330.0	2543.9	2581.6	2943.4	3358.4	3697.4
27.5°	3727.0	3669.9	3478.2	3132.4	2735.6	2521.7	2659.6	2694.6	3042.3	3427.7	3778.2
30°	4380.8	4364.7	4138.7	3745.9	3214.5	2832.4	2808.9	2838.5	3115.6	3469.4	3842.1
32.5°	4935.1	4909.5	4727.9	4345.9	3762.7	3205.8	2984.5	2993.2	3170.8	3523.2	3925.5
35°	5449.0	5417.4	5258.0	4896.7	4325.0	3661.8	3254.9	3242.1	3291.2	3631.5	4046.5
37.5°	5897.6	5926.5	5749.6	5405.9	4829.5	4136.0	3619.4	3581.1	3479.5	3807.8	4222.1
40°	6272.9	6272.9	6180.8	5894.3	5374.3	4626.4	4031.7	3981.3	3762.7	4079.5	4444.7
42.5°	6408.1	6437.1	6471.4	6309.3	5862.0	5136.2	4491.2	4438.7	4161.6	4464.9	4725.9
45°	6416.2	6462.0	6637.5	6636.8	6302.5	5642.7	5009.1	4984.2	4672.8	4960.0	5074.3
47.5°	6302.5	6359.7	6648.9	6813.1	6651.6	6114.2	5575.4	5544.5	5273.4	5566.7	5438.9
50°	6127.0	6190.2	6526.5	6882.4	6889.1	6524.5	6172.1	6125.6	5934.6	6260.2	5815.6
52.5°	5812.9	5935.3	6416.9	6898.5	7045.1	6879.0	6739.8	6719.6	6674.5	6928.1	6115.6
55°	5140.9	5276.8	6141.8	6903.9	7189.7	7193.1	7271.8	7277.2	7368.0	7552.3	6338.9
57.5°	4823.4	4900.1	5661.5	6929.4	7404.3	7549.6	7813.9	7855.6	7996.2	8144.9	6593.8
60°	4623.7	4714.5	5424.8	6894.5	7741.3	8017.1	8316.4	8330.5	8481.2	8756.3	6938.9
62.5°	4464.2	4553.7	5275.4	6759.9	8120.0	8579.4	8807.4	8808.8	8921.8	9484.8	7331.0
65°	4070.8	4146.1	4973.4	6608.6	8370.2	9135.7	9377.8	9369.1	9461.2	10252.9	7786.4
67.5°	3501.7	3559.6	4356.6	6034.8	8276.0	9641.5	10238.8	10209.9	10098.2	10916.8	7965.3
70°	2707.3	2728.2	3433.8	5029.3	7393.6	9835.9	11070.8	11056.0	10489.0	10797.7	7309.5
71°	2237.8	2306.4	3026.2	4438.7	6802.3	9656.3	11151.5	11160.3	10390.8	10473.5	6858.1
72.5°	1299.5	1358.0	2193.4	3408.9	5775.2	8907.0	10733.2	10796.4	9932.1	9526.5	5857.9
75°	278.5	298.0	813.2	1650.0	3176.8	6242.7	8471.8	8697.1	8095.1	6480.8	3530.6
77.5°	193.7	209.2	348.4	748.6	1050.0	3084.7	5262.7	5516.9	4836.2	2435.6	1130.0
80°	153.4	170.8	271.7	369.9	283.8	994.8	2465.2	2620.6	1613.0	543.5	190.4
82.5°	85.4	101.6	211.9	199.8	109.0	189.0	690.1	780.3	322.9	109.6	45.1
85°	24.9	30.3	136.5	145.3	46.4	36.3	117.7	146.0	61.2	28.9	20.2
87.5°	0.0	0.0	65.9	55.8	13.5	5.4	10.8	12.1	12.1	12.1	13.5
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°	2888.9	2888.9	2888.9	2888.9	2888.9	2888.9	2888.9	2888.9	2888.9	2888.9	2888.9
2.5°	2900.4	2905.1	2888.3	2866.1	2842.5	2813.6	2783.3	2759.8	2759.1	2747.7	2736.3
5°	2936.0	2933.3	2886.9	2816.3	2732.9	2646.1	2563.4	2469.9	2439.0	2400.6	2387.8
7.5°	3001.9	2983.1	2884.9	2730.2	2547.3	2365.6	2178.0	1989.0	1908.3	1835.6	1822.8
10°	3084.7	3049.0	2872.1	2601.1	2265.4	1930.4	1647.3	1390.3	1277.3	1190.6	1186.5
12.5°	3170.8	3116.3	2836.5	2406.0	1896.1	1425.3	1099.1	846.2	752.0	691.5	696.8
15°	3260.9	3179.5	2759.8	2143.0	1475.8	967.2	675.3	526.7	489.0	473.5	477.6
17.5°	3353.1	3223.2	2652.9	1826.2	1060.7	624.2	467.5	425.8	425.8	429.1	430.5
20°	3433.1	3246.8	2495.5	1471.0	719.0	454.7	409.0	402.9	406.3	411.6	412.3
22.5°	3512.5	3248.1	2290.3	1111.2	503.1	398.2	389.5	386.8	388.8	394.8	395.5
25°	3577.0	3232.0	2033.4	790.3	401.6	375.3	371.3	369.9	371.3	378.7	378.7
27.5°	3603.3	3173.5	1719.9	555.6	359.9	349.8	348.4	349.8	351.8	357.2	357.8
30°	3606.0	3071.2	1378.2	402.2	326.2	315.5	318.2	322.9	320.8	319.5	320.8
32.5°	3612.7	2952.8	1045.3	330.9	298.0	281.2	277.8	277.8	269.7	265.0	262.3
35°	3634.9	2813.6	758.1	297.3	269.1	249.5	236.8	222.0	206.5	198.4	196.4
37.5°	3669.9	2667.7	542.8	275.1	243.5	221.3	197.1	170.8	148.7	142.6	142.6
40°	3733.8	2517.0	401.6	257.6	223.3	195.7	159.4	125.1	104.9	101.6	101.6
42.5°	3834.7	2358.2	320.2	242.1	205.8	169.5	121.7	90.8	76.0	74.0	73.3
45°	3939.6	2183.4	279.8	227.3	187.0	139.2	90.1	67.3	58.5	56.5	56.5
47.5°	4044.5	1997.0	260.3	213.2	168.8	108.3	67.3	53.1	49.1	49.1	49.8
50°	4133.3	1802.6	246.2	197.8	145.3	82.1	53.1	45.1	43.7	46.4	47.1
52.5°	4155.5	1611.6	228.7	178.2	116.4	62.6	43.7	39.7	39.7	39.7	39.7
55°	4142.1	1463.6	205.8	154.0	86.1	49.8	37.7	35.0	34.3	34.3	34.3
57.5°	4187.8	1376.2	164.8	119.7	61.9	40.4	33.0	30.9	29.6	28.9	28.9
60°	4279.9	1319.0	117.7	86.1	46.4	33.6	28.3	26.2	24.2	22.9	22.9
62.5°	4402.4	1269.3	87.4	63.9	35.6	26.9	23.5	21.5	18.8	17.5	17.5
65°	4496.5	1180.5	66.6	47.8	26.9	21.5	18.2	17.5	13.5	12.1	11.4
67.5°	4352.6	985.4	53.8	35.0	20.2	16.8	14.1	13.5	8.1	6.7	6.7
70°	3733.1	686.1	43.0	25.6	14.8	13.5	11.4	8.7	6.1	5.4	5.4
71°	3385.3	573.1	39.0	21.5	12.8	12.8	10.8	7.4	5.4	4.7	4.7
72.5°	2812.3	406.9	33.0	16.8	11.4	13.5	11.4	6.7	5.4	4.7	4.0
75°	1632.5	170.2	22.9	11.4	8.7	16.1	14.8	6.1	4.0	3.4	3.4
77.5°	491.0	62.6	12.8	7.4	6.7	14.1	16.8	5.4	2.0	0.7	0.7
80°	89.5	26.9	8.1	4.7	4.7	8.7	12.8	2.7	0.0	0.0	0.0
82.5°	31.6	13.5	4.7	2.7	2.0	4.0	6.1	0.0	0.0	0.0	0.0
85°	18.2	9.4	2.7	1.3	0.0	0.7	1.3	0.0	0.0	0.0	0.0
87.5°	12.1	2.7	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)