

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: P323467

Luminaire Tested: **GAN-SA3A-730-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323467
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11069 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

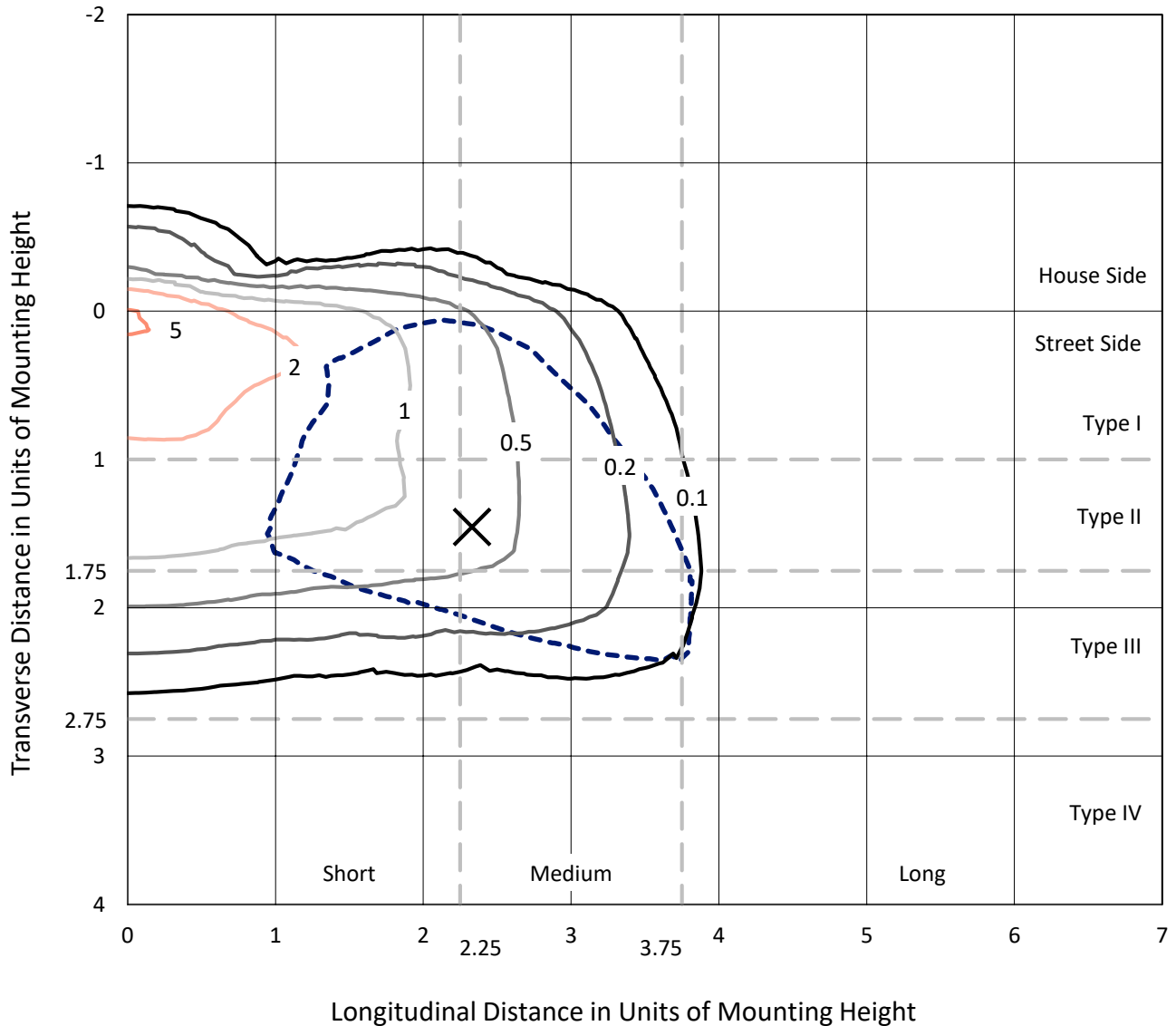
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

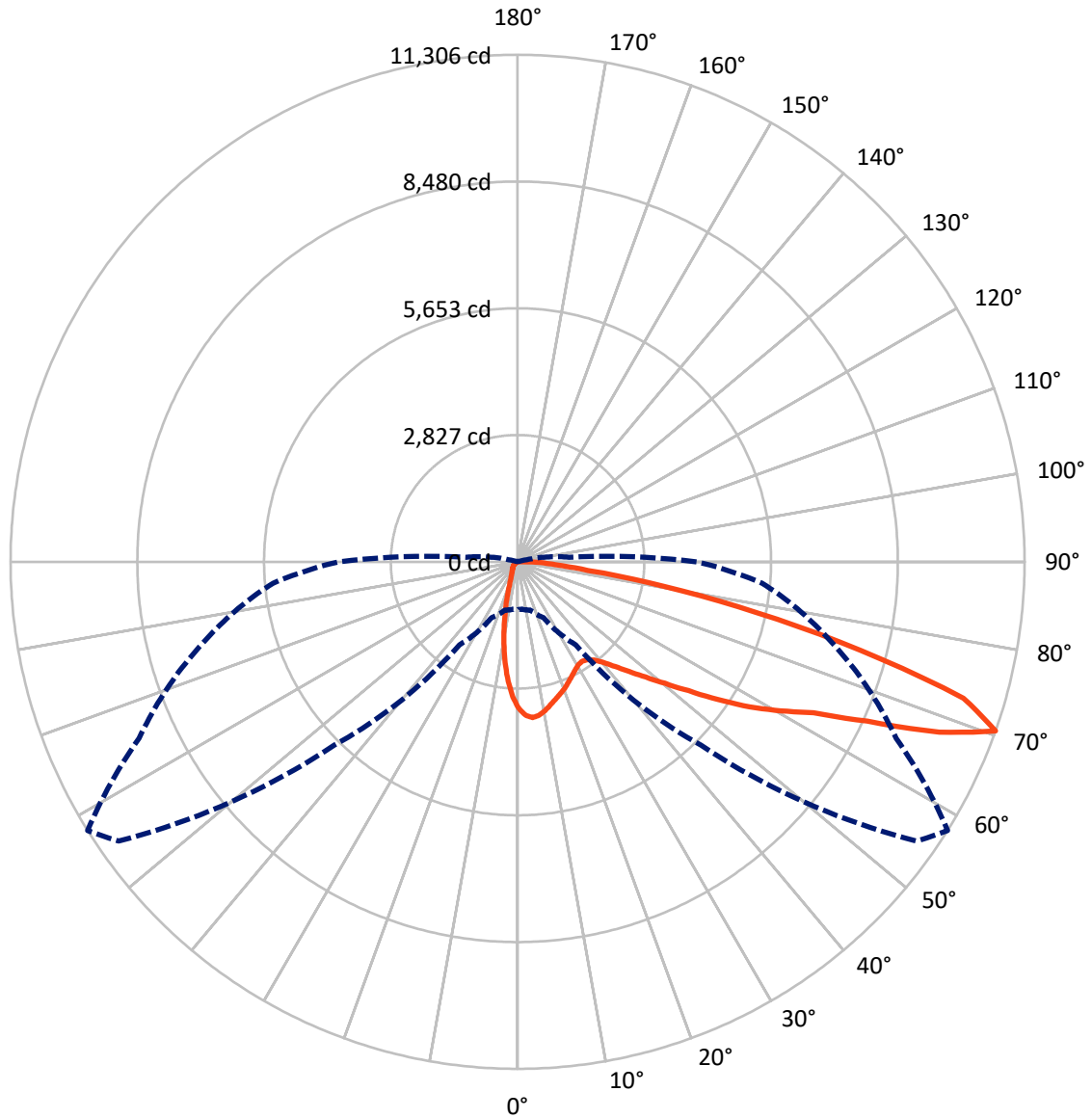
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	947.3	0.0	947.3
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	10121.7	0.0	10121.7
	% Fixture	91.4	0.0	91.4
Total	Lumens	11069.0	0.0	11069.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.4	2.4
10°-20°	561.2	5.1
20°-30°	737.7	6.7
30°-40°	977.1	8.8
40°-50°	1460.4	13.2
50°-60°	2339.5	21.1
60°-70°	2948.9	26.6
70°-80°	1590.6	14.4
80°-90°	186.2	1.7
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°	11069.0	100.0
0°-180°	11069.0	100.0

Coefficient of Utilization



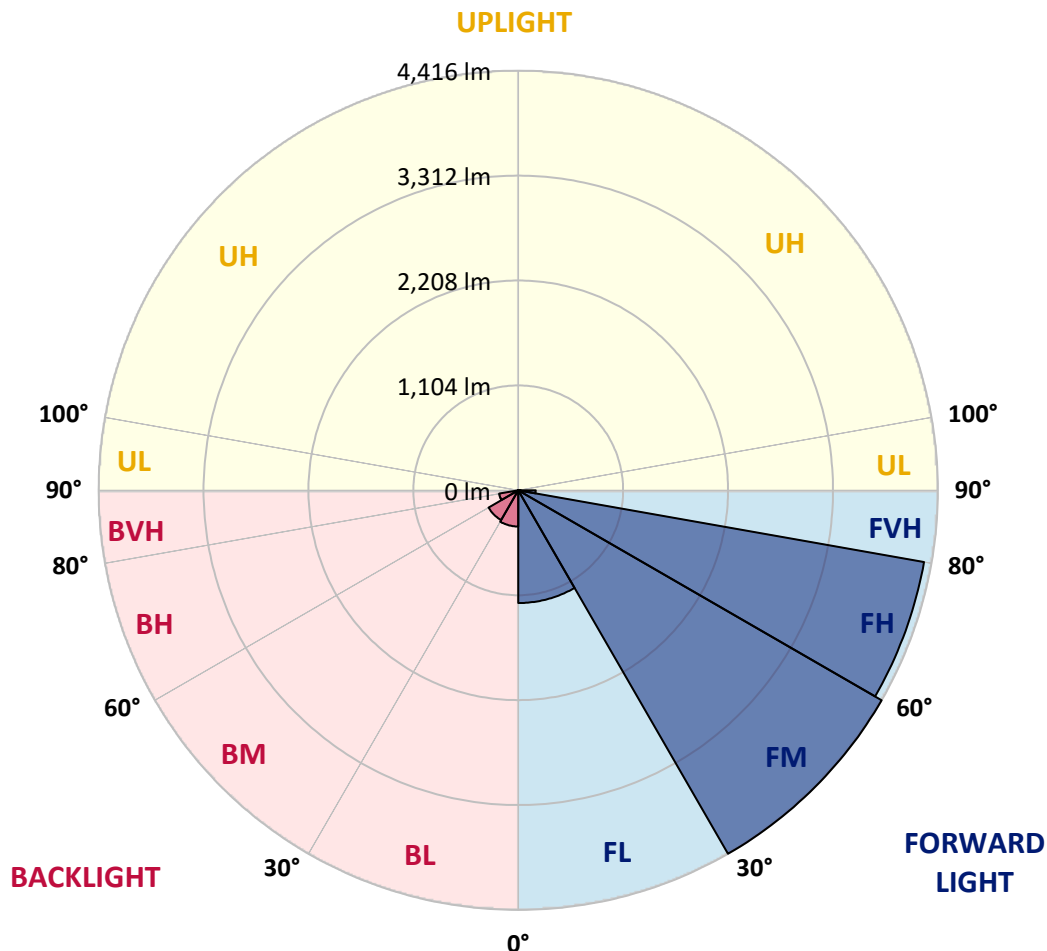
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1185.7	10.7			
FM (30°-60°)	4415.6	39.9			
FH (60°-80°)	4335.8	39.2			G2/5000
FVH (80°-90°)	184.6	1.7			G2/225
BL (0°-30°)	380.6	3.4	B1/500		
BM (30°-60°)	361.4	3.3	B1/1000		
BH (60°-80°)	203.7	1.8	B1/500		G1/500
BVH (80°-90°)	1.6	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-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3269.7	3269.7	3269.7	3269.7	3269.7	3269.7	3269.7	3269.7	3269.7	3269.7	3269.7
2.5°	3540.8	3532.1	3528.9	3523.3	3502.2	3481.5	3440.5	3429.0	3403.2	3342.0	3277.1
5°	3543.6	3543.1	3552.8	3550.5	3543.1	3533.5	3504.0	3488.8	3445.1	3357.6	3238.9
7.5°	3372.8	3381.6	3403.2	3420.7	3440.9	3467.2	3470.9	3456.1	3420.2	3325.9	3168.5
10°	3143.6	3157.4	3187.8	3222.3	3275.3	3327.7	3374.7	3372.8	3360.4	3267.4	3083.8
12.5°	2913.9	2930.1	2965.0	3016.1	3091.1	3176.8	3260.5	3272.0	3292.7	3215.0	3005.5
15°	2712.8	2726.6	2761.1	2823.7	2916.7	3031.8	3154.7	3175.8	3229.2	3174.0	2940.2
17.5°	2542.0	2550.8	2576.1	2645.6	2753.3	2892.8	3052.5	3093.9	3173.5	3141.8	2883.6
20°	2422.8	2424.2	2440.8	2489.6	2597.3	2753.3	2946.6	3006.0	3114.6	3114.2	2825.1
22.5°	2363.9	2359.3	2362.5	2390.6	2469.8	2620.3	2840.8	2911.2	3061.7	3090.7	2765.7
25°	2352.9	2349.2	2340.0	2343.7	2391.5	2503.8	2734.0	2815.4	3015.2	3076.4	2714.2
27.5°	2387.4	2391.1	2375.4	2358.9	2362.5	2428.4	2639.2	2733.5	2977.5	3076.4	2677.8
30°	2456.9	2458.7	2447.2	2425.6	2396.6	2407.2	2573.3	2667.7	2958.6	3097.6	2654.8
32.5°	2533.8	2543.9	2542.5	2525.0	2483.6	2440.8	2557.7	2643.8	2957.2	3144.5	2652.5
35°	2629.0	2640.5	2659.9	2656.2	2612.9	2542.5	2611.1	2678.7	2984.4	3221.9	2677.4
37.5°	2730.3	2747.8	2789.2	2809.0	2780.9	2701.3	2730.8	2779.1	3057.1	3347.1	2740.4
40°	2828.3	2848.1	2923.6	3001.4	2980.2	2898.3	2912.1	2950.8	3186.4	3527.0	2860.1
42.5°	2924.5	2954.0	3064.9	3192.9	3218.2	3152.8	3160.2	3191.0	3378.4	3774.6	3055.7
45°	3039.6	3072.7	3237.1	3394.9	3462.6	3434.0	3465.3	3485.6	3629.2	4101.9	3319.4
47.5°	3208.5	3246.7	3448.3	3628.3	3747.0	3765.4	3828.5	3841.8	3946.3	4483.0	3663.3
50°	3538.1	3548.7	3730.9	3894.3	4065.5	4176.0	4247.8	4257.9	4330.2	4899.5	4092.7
52.5°	3952.8	3959.7	4062.8	4172.3	4367.0	4592.5	4760.5	4774.8	4790.0	5305.5	4516.6
55°	4364.7	4363.8	4431.9	4496.3	4719.1	5046.8	5411.3	5420.1	5311.0	5690.7	4840.6
57.5°	4622.0	4646.8	4750.4	4833.3	5144.4	5564.6	6070.4	6102.7	5858.3	5976.1	5161.0
60°	4540.1	4552.0	4781.7	5088.2	5674.2	6300.6	6737.4	6745.7	6269.7	6261.0	5566.0
62.5°	3868.1	3874.5	4235.4	4867.3	5942.5	7255.2	7541.9	7407.1	6742.9	6656.4	6050.7
65°	2651.1	2693.0	2994.5	3775.6	5449.6	7854.0	8787.4	8564.2	7464.1	7226.2	6488.8
67.5°	1561.2	1552.5	1701.6	2276.9	4002.5	7456.3	10362.9	10141.0	8447.7	7607.7	6360.4
70°	1066.4	1060.5	1117.5	1378.5	2259.4	5784.2	10858.6	11306.4	9316.2	7350.9	5473.9
72.5°	761.3	764.5	848.7	1071.0	1418.5	3370.1	9337.9	10397.9	9044.2	6408.3	4160.8
75°	516.9	525.6	646.2	878.6	1243.6	1714.5	6626.5	7904.1	7364.7	4657.4	2391.5
77.5°	278.0	287.7	429.9	707.9	1124.4	1191.2	4262.5	5439.9	4626.1	2093.8	693.2
80°	116.0	121.5	201.1	514.6	971.6	1046.2	2508.0	3298.7	1971.3	412.9	154.6
82.5°	50.2	52.9	83.8	307.0	726.3	883.3	1327.9	1587.0	597.4	90.7	77.8
85°	9.7	10.1	34.5	162.5	463.5	498.5	860.7	843.7	268.3	39.1	56.6
87.5°	0.0	0.0	8.3	51.1	136.2	271.6	525.2	518.7	91.1	18.9	21.2
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°	3269.7	3269.7	3269.7	3269.7	3269.7	3269.7	3269.7	3269.7	3269.7	3269.7	3269.7
2.5°	3244.0	3212.2	3145.5	3063.1	3000.0	2930.5	2875.3	2805.3	2774.9	2776.3	2759.8
5°	3171.2	3105.9	2958.1	2771.7	2628.1	2479.9	2352.4	2225.4	2150.4	2126.0	2103.0
7.5°	3067.2	2963.7	2728.0	2440.8	2197.8	1960.3	1753.6	1571.8	1456.7	1400.6	1379.9
10°	2949.8	2804.4	2463.3	2085.0	1738.0	1416.7	1148.8	915.9	823.0	759.9	743.8
12.5°	2846.7	2649.8	2204.7	1720.0	1308.1	920.5	665.1	520.1	457.0	432.2	428.0
15°	2749.6	2505.2	1955.7	1389.5	905.8	566.6	423.0	373.7	359.0	354.9	354.9
17.5°	2658.0	2367.6	1712.2	1064.1	599.3	397.2	350.3	339.2	334.6	334.2	334.6
20°	2562.3	2230.0	1472.9	779.7	418.4	336.5	323.6	317.6	316.2	316.2	316.2
22.5°	2470.7	2092.4	1240.0	556.9	335.5	307.0	300.6	296.4	295.0	294.6	293.6
25°	2382.8	1961.7	1012.6	393.5	294.6	281.2	275.7	270.2	266.0	263.7	262.4
27.5°	2310.5	1845.2	800.9	315.7	266.0	254.5	247.6	239.3	229.2	224.6	222.8
30°	2253.0	1738.9	617.2	266.5	239.3	227.8	217.2	203.0	188.2	180.4	180.0
32.5°	2207.9	1634.4	468.6	235.7	215.4	201.1	185.9	168.0	151.0	142.2	141.8
35°	2185.8	1542.4	358.1	213.1	194.2	176.3	157.4	137.6	121.0	112.8	111.8
37.5°	2200.5	1464.6	279.4	194.2	176.3	155.6	133.5	112.8	98.0	90.7	90.2
40°	2254.4	1414.9	226.9	178.1	161.1	135.8	111.8	92.5	80.1	74.1	73.6
42.5°	2369.0	1396.4	193.8	164.8	146.4	117.4	93.0	76.4	64.9	60.8	59.8
45°	2560.5	1423.6	171.2	151.9	131.2	99.9	76.9	62.6	52.5	49.2	48.8
47.5°	2815.4	1494.9	155.1	139.5	117.4	84.2	64.0	50.6	42.8	39.6	39.1
50°	3144.1	1608.2	141.8	127.0	104.5	71.3	52.9	40.0	33.1	30.8	30.8
52.5°	3501.7	1743.0	129.8	115.5	91.6	59.4	42.8	30.8	26.2	23.5	23.5
55°	3797.2	1860.9	116.9	106.8	75.9	49.2	32.7	23.5	19.3	18.0	18.0
57.5°	4092.2	1986.5	102.2	91.6	60.8	40.0	24.9	17.5	14.3	13.3	13.3
60°	4474.7	2140.2	87.9	74.6	47.9	30.4	18.4	12.4	10.6	10.1	10.1
62.5°	4895.4	2230.4	75.0	59.8	37.3	22.6	13.3	8.3	7.8	7.8	7.4
65°	5152.7	2103.0	63.1	47.9	29.0	17.0	8.7	6.0	6.9	6.4	5.5
67.5°	4824.5	1646.4	51.5	37.3	22.6	12.9	5.5	4.1	7.4	6.0	4.6
70°	3994.6	1152.5	40.0	26.2	18.0	11.0	3.7	2.8	7.8	6.0	3.7
72.5°	2989.4	771.4	31.8	17.5	13.3	9.7	3.2	1.4	6.9	5.1	3.2
75°	1633.5	310.7	25.3	11.0	8.3	6.9	2.3	0.9	4.6	3.7	2.3
77.5°	429.9	81.9	18.4	7.4	4.6	2.8	1.4	0.5	2.3	1.8	0.9
80°	109.5	31.8	12.0	5.1	3.2	1.4	0.0	0.0	0.5	0.0	0.0
82.5°	58.5	13.3	7.4	3.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	44.2	8.7	4.1	2.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.0	2.8	1.4	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)