

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: P483516

Luminaire Tested: **IFLD-S-SA6C-727-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483516
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-727-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

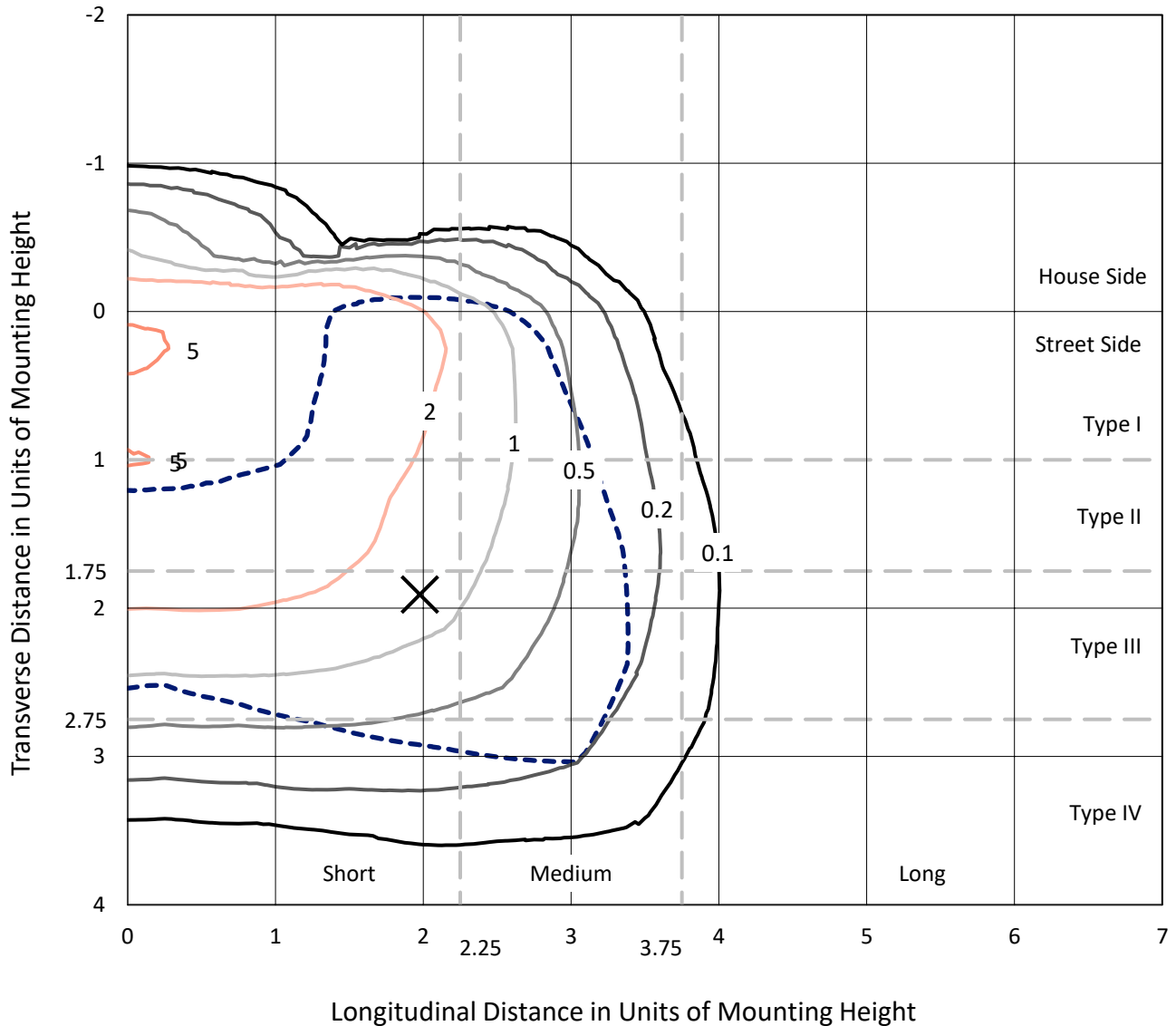
Lumens per Lamp: N/A
Luminaire Lumens: 25639.6 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 321.5
Input Voltage (V): 120
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

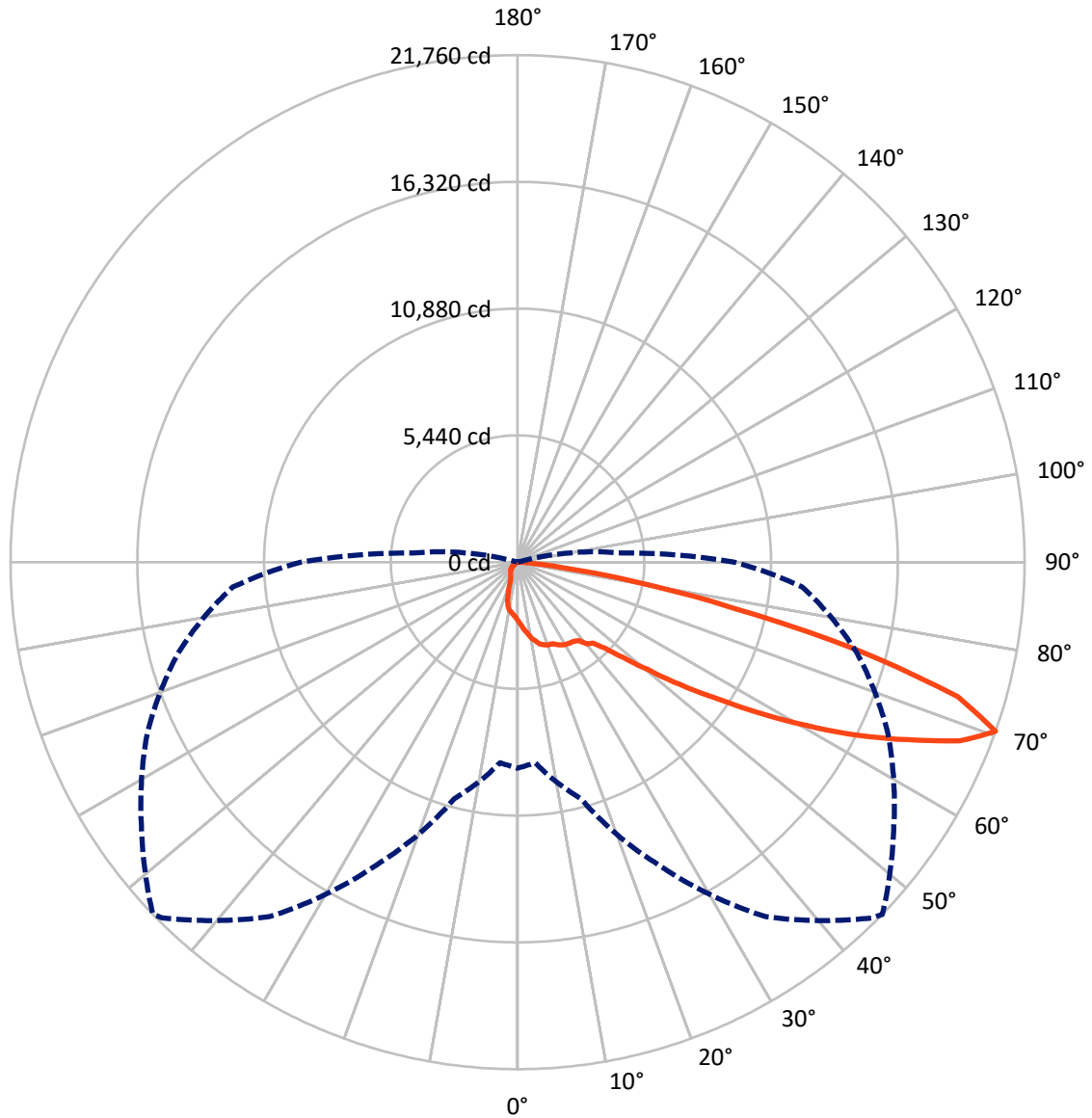
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2551.2	0.0	2551.2
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	23088.4	0.0	23088.4
	% Fixture	90.0	0.0	90.0
Total	Lumens	25639.6	0.0	25639.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.0	1.0
10°-20°	757.9	3.0
20°-30°	1214.0	4.7
30°-40°	1732.9	6.8
40°-50°	2992.2	11.7
50°-60°	5728.8	22.3
60°-70°	8483.4	33.1
70°-80°	4201.8	16.4
80°-90°	277.6	1.1
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°	25639.6	100.0
0°-180°	25639.6	100.0

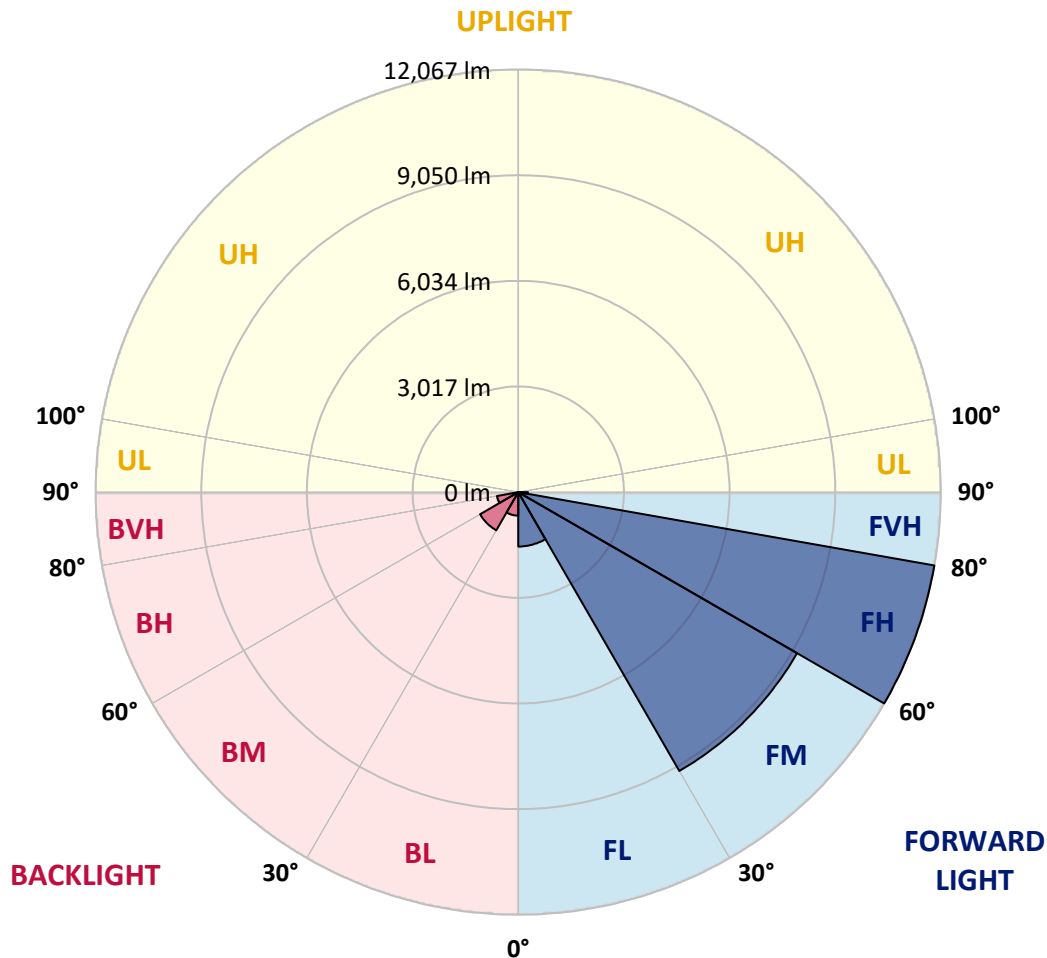


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1552.7	6.1			
FM (30°-60°)	9194.3	35.9			
FH (60°-80°)	12067.3	47.1			G5
FVH (80°-90°)	274.1	1.1			G3/500
BL (0°-30°)	670.3	2.6	B2/1000		
BM (30°-60°)	1259.5	4.9	B2/2500		
BH (60°-80°)	617.9	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.5	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2517.0	2517.0	2517.0	2517.0	2517.0	2517.0	2517.0	2517.0	2517.0	2517.0	2517.0
2.5°	2808.6	2790.1	2760.6	2749.5	2720.0	2705.2	2683.1	2672.0	2631.4	2590.8	2565.0
5°	3151.8	3107.5	3122.3	3078.0	2982.0	2904.5	2900.8	2816.0	2723.7	2649.9	2550.2
7.5°	3498.7	3461.8	3406.5	3343.7	3236.7	3122.3	3089.1	3007.9	2878.7	2749.5	2616.7
10°	3760.8	3734.9	3686.9	3598.4	3450.7	3321.6	3325.3	3188.7	3052.2	2904.5	2723.7
12.5°	3923.1	3934.2	3864.1	3775.5	3646.3	3484.0	3480.3	3388.0	3233.0	3078.0	2863.9
15°	4085.5	4126.1	4019.1	3915.8	3749.7	3631.6	3653.7	3543.0	3391.7	3214.5	2978.3
17.5°	4111.4	4122.4	4100.3	3949.0	3827.2	3727.5	3731.2	3657.4	3543.0	3351.1	3148.1
20°	4067.1	4059.7	4033.9	3923.1	3842.0	3782.9	3786.6	3768.1	3705.4	3550.4	3273.6
22.5°	3937.9	3937.9	3904.7	3830.9	3794.0	3849.3	3805.0	3875.2	3808.7	3716.5	3487.7
25°	3834.6	3875.2	3856.7	3808.7	3823.5	3897.3	3919.5	3985.9	3974.8	3860.4	3635.3
27.5°	3945.3	3897.3	3908.4	3853.0	3908.4	4019.1	4030.2	4078.2	4074.5	3982.2	3768.1
30°	4019.1	4063.4	3978.5	3856.7	3915.8	4104.0	4096.6	4159.3	4188.9	4078.2	3893.6
32.5°	4255.3	4218.4	4148.3	3985.9	3993.3	4100.3	4133.5	4214.7	4233.2	4166.7	4015.4
35°	4738.8	4683.4	4377.1	4133.5	4096.6	4148.3	4170.4	4329.1	4362.3	4288.5	4144.6
37.5°	5484.3	5358.8	4989.7	4450.9	4284.8	4273.8	4273.8	4484.1	4609.6	4439.8	4336.5
40°	6550.9	6373.7	5975.1	5037.7	4532.1	4576.4	4620.7	4735.1	4720.3	4609.6	4587.5
42.5°	7909.0	7772.5	7340.7	6023.1	5004.5	4783.1	4746.2	4901.2	5133.7	5089.4	5074.6
45°	9042.1	9049.4	8772.6	7373.9	5820.1	5259.2	5285.0	5403.1	5794.3	5761.1	5757.4
47.5°	9868.8	9765.4	9724.8	8676.7	7008.5	6163.4	6126.5	6207.6	6717.0	6927.3	7023.3
50°	10621.6	10551.5	10455.6	9942.6	8436.8	7296.4	7259.5	7266.9	8045.6	8340.8	8577.0
52.5°	11555.4	11644.0	11326.6	11012.9	10285.8	8769.0	8728.4	8584.4	9551.4	9957.3	10237.8
55°	12706.9	12540.8	12182.8	12345.2	12053.6	10359.6	10285.8	10116.0	11267.5	11437.3	11732.5
57.5°	12961.5	12836.0	13205.1	13780.8	14061.3	12227.1	12197.6	11891.2	12710.5	12555.5	13389.6
60°	13596.3	13629.5	14142.5	15286.6	15773.8	14382.4	14238.5	13699.6	14109.3	14138.8	15028.3
62.5°	14249.5	14172.0	15319.8	16419.6	17168.8	16423.3	16375.3	15305.1	15770.1	15393.6	16571.0
65°	13769.8	13887.9	15530.2	17371.8	18977.2	18420.0	18379.4	16851.4	17106.1	16637.4	17198.4
67.5°	12064.7	11824.8	14124.1	16936.3	19907.3	20512.6	20468.3	18538.1	17859.0	16630.0	15895.6
70°	8842.8	8636.1	10510.9	14341.8	18575.0	21582.8	21760.0	19711.7	17552.7	15079.9	12264.0
72.5°	4332.8	4336.5	5890.3	9724.8	14696.1	19671.1	19759.7	18073.0	15079.9	11116.2	6945.8
75°	1280.7	1295.4	2181.2	4768.3	9499.7	14939.7	15039.3	13718.1	10451.9	5742.6	2369.4
77.5°	468.7	468.7	723.4	1790.0	4738.8	9429.6	9422.2	8422.0	5292.4	1945.0	553.6
80°	243.6	254.7	376.4	730.7	2052.0	4912.2	5096.8	4122.4	2011.4	819.3	162.4
82.5°	99.6	110.7	206.7	376.4	985.4	1723.5	1885.9	1616.5	874.7	572.0	73.8
85°	29.5	33.2	99.6	210.4	387.5	431.8	479.8	542.5	549.9	442.9	33.2
87.5°	3.7	3.7	40.6	70.1	84.9	92.3	107.0	107.0	280.5	310.0	18.5
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°	2517.0	2517.0	2517.0	2517.0	2517.0	2517.0	2517.0	2517.0	2517.0	2517.0	2517.0
2.5°	2535.5	2517.0	2487.5	2421.1	2406.3	2358.3	2354.6	2310.3	2325.1	2295.6	2284.5
5°	2517.0	2476.4	2395.2	2343.6	2291.9	2258.7	2236.5	2218.1	2214.4	2199.6	2192.2
7.5°	2550.2	2494.9	2369.4	2288.2	2199.6	2170.1	2122.1	2118.4	2092.6	2066.8	2066.8
10°	2660.9	2561.3	2424.7	2288.2	2173.8	2077.8	1967.1	1885.9	1856.4	1790.0	1797.3
12.5°	2749.5	2660.9	2461.7	2321.4	2147.9	1930.2	1686.6	1498.4	1409.8	1324.9	1358.2
15°	2875.0	2745.8	2531.8	2328.8	2048.3	1671.9	1273.3	1062.9	981.7	963.3	959.6
17.5°	3011.6	2875.0	2620.4	2310.3	1845.3	1291.7	937.4	815.6	830.4	852.5	848.8
20°	3162.9	2996.8	2686.8	2247.6	1524.2	937.4	767.7	764.0	786.1	819.3	826.7
22.5°	3321.6	3177.6	2768.0	2059.4	1136.7	752.9	738.1	738.1	752.9	793.5	786.1
25°	3498.7	3306.8	2808.6	1767.8	815.6	693.8	701.2	716.0	723.4	756.6	760.3
27.5°	3635.3	3450.7	2819.6	1417.2	664.3	642.2	660.6	679.1	690.1	716.0	727.1
30°	3760.8	3631.6	2760.6	1055.5	609.0	597.9	605.3	631.1	653.2	675.4	675.4
32.5°	3919.5	3734.9	2624.0	749.2	575.7	557.3	553.6	564.7	590.5	616.3	616.3
35°	4081.8	3908.4	2406.3	601.6	546.2	520.4	505.6	494.5	505.6	524.1	538.8
37.5°	4318.0	4170.4	2133.2	553.6	524.1	487.2	457.6	431.8	413.4	409.7	420.7
40°	4653.9	4465.7	1782.6	520.4	498.2	453.9	409.7	365.4	324.8	298.9	302.6
42.5°	5163.2	4901.2	1402.4	501.9	479.8	417.0	354.3	291.6	239.9	214.1	214.1
45°	5890.3	5476.9	1029.7	483.5	457.6	372.8	291.6	217.7	166.1	151.3	155.0
47.5°	6986.4	6170.7	738.1	453.9	428.1	324.8	228.8	155.0	121.8	114.4	118.1
50°	8418.3	6993.8	575.7	420.7	391.2	273.1	169.8	114.4	96.0	92.3	96.0
52.5°	9920.4	7824.1	505.6	391.2	335.8	217.7	125.5	92.3	81.2	77.5	81.2
55°	11204.8	8359.3	439.2	346.9	269.4	162.4	99.6	81.2	70.1	59.1	59.1
57.5°	12503.9	8628.7	346.9	287.9	199.3	121.8	84.9	70.1	59.1	48.0	44.3
60°	13559.4	8820.6	247.3	214.1	140.2	96.0	73.8	62.7	48.0	36.9	33.2
62.5°	14253.2	8270.7	180.8	162.4	103.3	81.2	62.7	51.7	36.9	25.8	25.8
65°	13910.0	7510.4	140.2	114.4	77.5	62.7	51.7	36.9	25.8	14.8	11.1
67.5°	12481.7	6119.1	114.4	84.9	59.1	48.0	40.6	29.5	14.8	3.7	3.7
70°	9311.5	4484.1	92.3	62.7	48.0	36.9	29.5	18.5	7.4	3.7	0.0
72.5°	5093.1	2454.3	73.8	51.7	36.9	29.5	22.1	14.8	7.4	0.0	0.0
75°	1682.9	653.2	55.4	36.9	22.1	18.5	14.8	11.1	3.7	0.0	0.0
77.5°	406.0	169.8	44.3	33.2	18.5	11.1	7.4	3.7	3.7	0.0	0.0
80°	125.5	70.1	33.2	22.1	14.8	11.1	3.7	0.0	0.0	0.0	0.0
82.5°	51.7	33.2	14.8	14.8	11.1	3.7	0.0	0.0	0.0	0.0	0.0
85°	25.8	18.5	11.1	7.4	7.4	3.7	0.0	0.0	0.0	0.0	0.0
87.5°	18.5	7.4	3.7	3.7	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)