

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: P483750

Luminaire Tested: **IFLD-S-SA6C-827-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483750  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-827-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield  
Light Source: (96) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

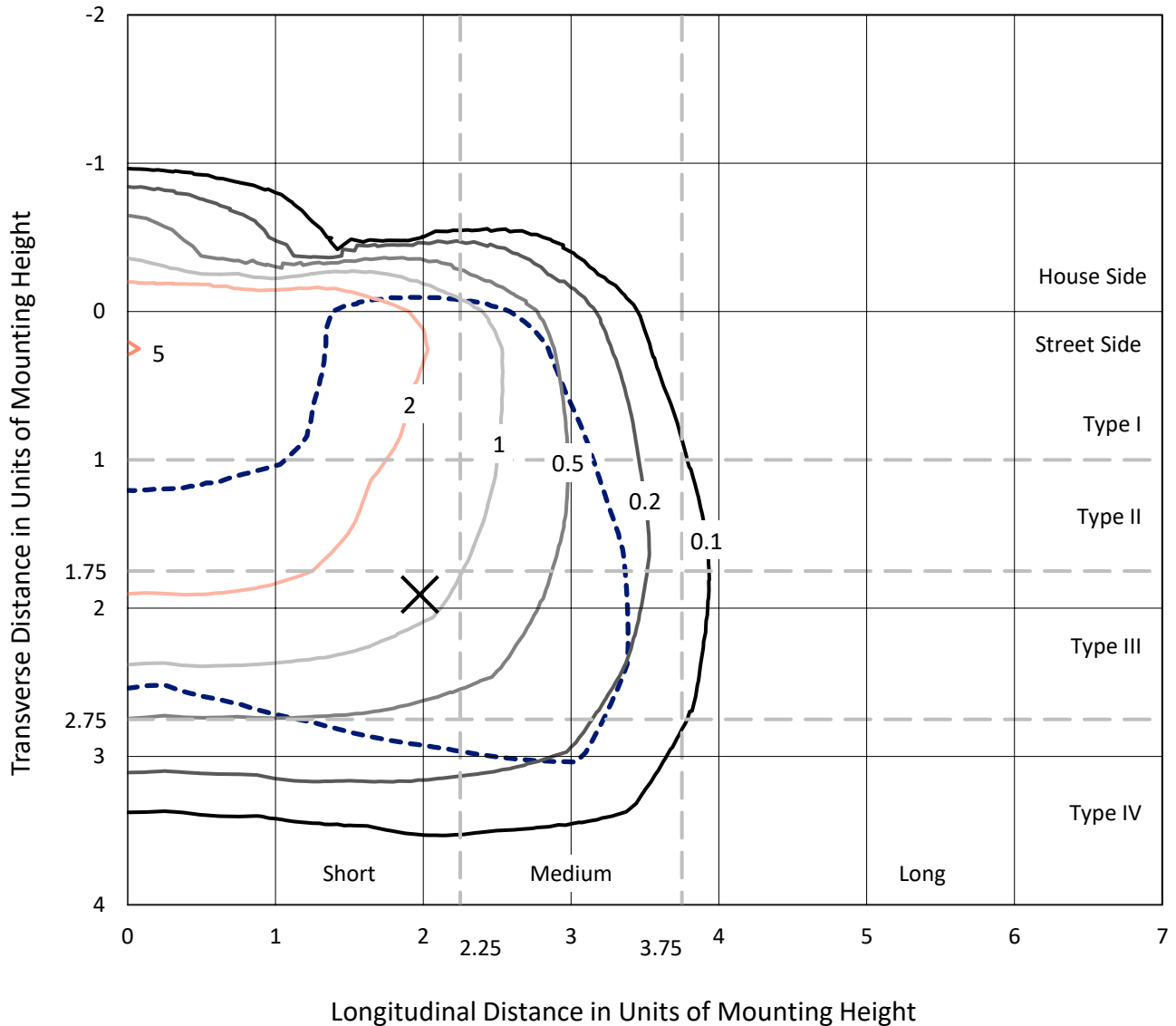
Lumens per Lamp: N/A  
Luminaire Lumens: 22537 lumens  
Efficiency: N/A  
Efficacy: 70.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

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

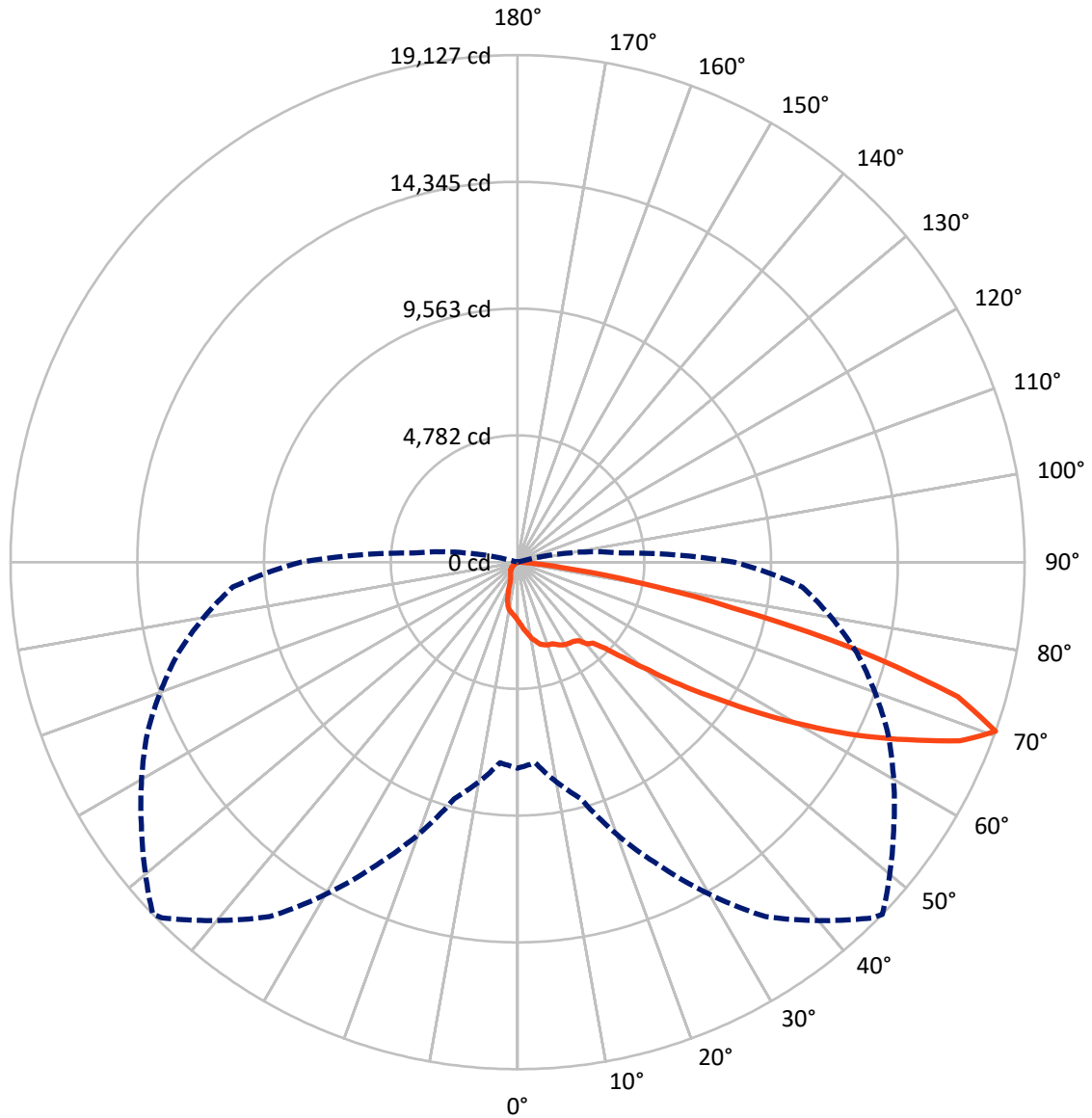
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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
<b>House Side</b>	Lumens	2242.5	0.0	2242.5
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	20294.5	0.0	20294.5
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	22537.0	0.0	22537.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.6	1.0
10°-20°	666.2	3.0
20°-30°	1067.1	4.7
30°-40°	1523.2	6.8
40°-50°	2630.1	11.7
50°-60°	5035.6	22.3
60°-70°	7456.9	33.1
70°-80°	3693.3	16.4
80°-90°	244.0	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°	22537.0	100.0
0°-180°	22537.0	100.0

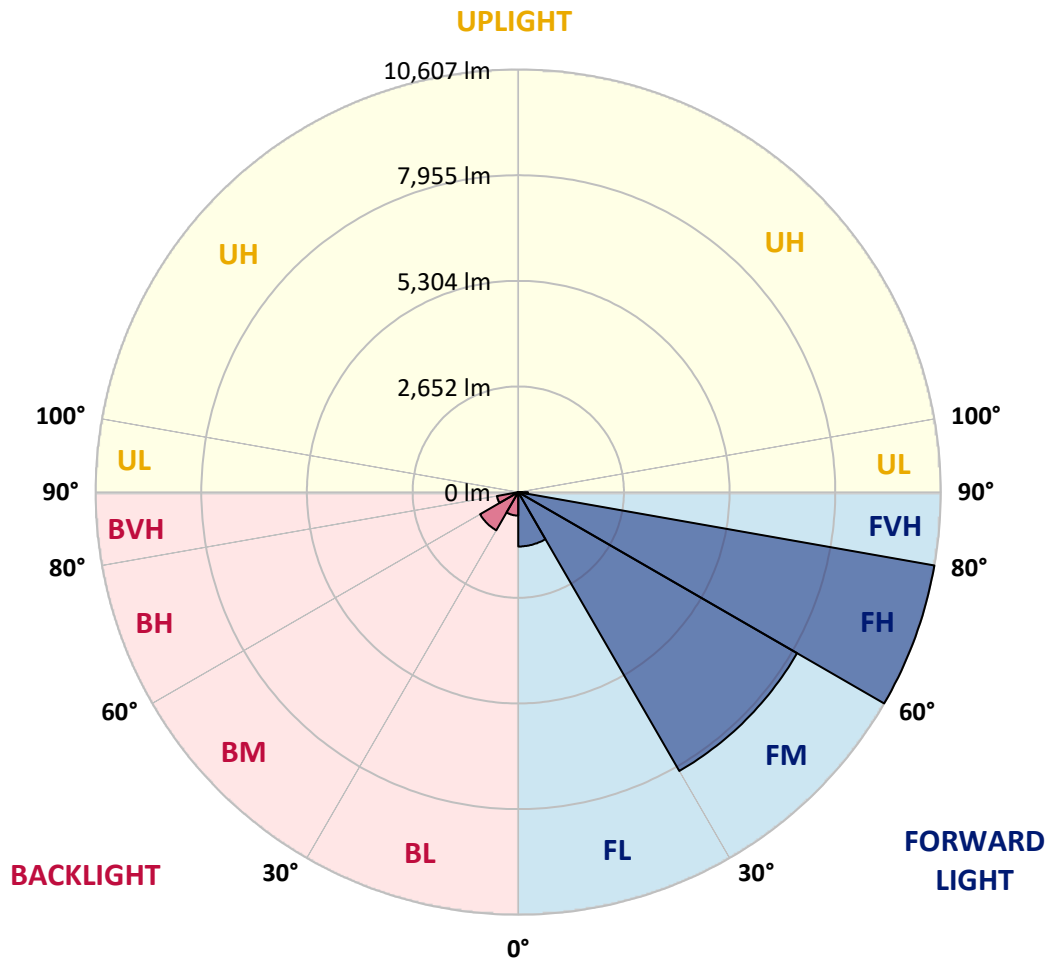


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1364.8	6.1			
FM (30°-60°)	8081.7	35.9			
FH (60°-80°)	10607.1	47.1			G4/12000
FVH (80°-90°)	240.9	1.1			G3/500
BL (0°-30°)	589.1	2.6	B2/1000		
BM (30°-60°)	1107.1	4.9	B2/2500		
BH (60°-80°)	543.1	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.1	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-G4**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2212.4	2212.4	2212.4	2212.4	2212.4	2212.4	2212.4	2212.4	2212.4	2212.4	2212.4
2.5°	2468.7	2452.5	2426.5	2416.8	2390.9	2377.9	2358.4	2348.7	2313.0	2277.3	2254.6
5°	2770.4	2731.5	2744.5	2705.5	2621.2	2553.1	2549.8	2475.2	2394.1	2329.2	2241.6
7.5°	3075.3	3042.9	2994.2	2939.1	2845.0	2744.5	2715.3	2643.9	2530.3	2416.8	2300.0
10°	3305.7	3283.0	3240.8	3162.9	3033.2	2919.6	2922.9	2802.8	2682.8	2553.1	2394.1
12.5°	3448.4	3458.1	3396.5	3318.6	3205.1	3062.4	3059.1	2978.0	2841.8	2705.5	2517.4
15°	3591.1	3626.8	3532.8	3441.9	3295.9	3192.1	3211.6	3114.3	2981.3	2825.6	2617.9
17.5°	3613.9	3623.6	3604.1	3471.1	3364.1	3276.5	3279.7	3214.8	3114.3	2945.6	2767.2
20°	3574.9	3568.4	3545.7	3448.4	3377.0	3325.1	3328.4	3312.2	3257.0	3120.8	2877.5
22.5°	3461.4	3461.4	3432.2	3367.3	3334.9	3383.5	3344.6	3406.2	3347.8	3266.7	3065.6
25°	3370.6	3406.2	3390.0	3347.8	3360.8	3425.7	3445.2	3503.6	3493.8	3393.3	3195.4
27.5°	3467.9	3425.7	3435.4	3386.8	3435.4	3532.8	3542.5	3584.7	3581.4	3500.3	3312.2
30°	3532.8	3571.7	3497.1	3390.0	3441.9	3607.4	3600.9	3656.0	3682.0	3584.7	3422.5
32.5°	3740.4	3707.9	3646.3	3503.6	3510.0	3604.1	3633.3	3704.7	3720.9	3662.5	3529.5
35°	4165.3	4116.7	3847.4	3633.3	3600.9	3646.3	3665.8	3805.3	3834.4	3769.6	3643.1
37.5°	4820.6	4710.3	4385.9	3912.3	3766.3	3756.6	3756.6	3941.5	4051.8	3902.6	3811.7
40°	5758.2	5602.4	5252.1	4428.1	3983.7	4022.6	4061.5	4162.1	4149.1	4051.8	4032.3
42.5°	6952.0	6831.9	6452.4	5294.3	4398.9	4204.3	4171.8	4308.1	4512.5	4473.5	4460.5
45°	7947.9	7954.4	7711.1	6481.6	5115.8	4622.7	4645.5	4749.3	5093.1	5063.9	5060.7
47.5°	8674.5	8583.7	8548.0	7626.7	6160.4	5417.5	5385.1	5456.5	5904.1	6089.1	6173.4
50°	9336.3	9274.7	9190.4	8739.4	7415.9	6413.5	6381.0	6387.5	7072.0	7331.5	7539.1
52.5°	10157.1	10234.9	9955.9	9680.2	9041.1	7707.8	7672.1	7545.6	8395.6	8752.4	8999.0
55°	11169.2	11023.2	10708.6	10851.3	10595.0	9106.0	9041.1	8891.9	9904.0	10053.3	10312.8
57.5°	11393.0	11282.8	11607.2	12113.2	12359.8	10747.5	10721.5	10452.3	11172.5	11036.2	11769.4
60°	11951.0	11980.2	12431.1	13436.8	13865.0	12642.0	12515.5	12041.9	12401.9	12427.9	13209.7
62.5°	12525.2	12457.1	13466.0	14432.7	15091.2	14436.0	14393.8	13453.0	13861.8	13530.9	14565.7
65°	12103.5	12207.3	13650.9	15269.7	16680.8	16191.0	16155.3	14812.3	15036.1	14624.1	15117.2
67.5°	10604.7	10393.9	12414.9	14886.9	17498.3	18030.3	17991.4	16294.8	15697.9	14617.6	13972.1
70°	7772.7	7591.0	9239.0	12606.3	16327.2	18971.1	19126.8	17326.4	15428.6	13255.1	10779.9
72.5°	3808.5	3811.7	5177.5	8548.0	12917.7	17290.7	17368.6	15886.0	13255.1	9771.0	6105.3
75°	1125.7	1138.7	1917.2	4191.3	8350.1	13131.9	13219.4	12058.1	9187.1	5047.7	2082.7
77.5°	412.0	412.0	635.8	1573.4	4165.3	8288.5	8282.0	7402.9	4651.9	1709.6	486.6
80°	214.1	223.8	330.9	642.3	1803.7	4317.8	4480.0	3623.6	1768.0	720.2	142.7
82.5°	87.6	97.3	181.7	330.9	866.2	1515.0	1657.7	1420.9	768.8	502.8	64.9
85°	26.0	29.2	87.6	184.9	340.6	379.6	421.7	476.9	483.4	389.3	29.2
87.5°	3.2	3.2	35.7	61.6	74.6	81.1	94.1	94.1	246.5	272.5	16.2
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°	2212.4	2212.4	2212.4	2212.4	2212.4	2212.4	2212.4	2212.4	2212.4	2212.4	2212.4
2.5°	2228.7	2212.4	2186.5	2128.1	2115.1	2072.9	2069.7	2030.8	2043.7	2017.8	2008.1
5°	2212.4	2176.7	2105.4	2060.0	2014.5	1985.3	1965.9	1949.7	1946.4	1933.4	1927.0
7.5°	2241.6	2193.0	2082.7	2011.3	1933.4	1907.5	1865.3	1862.1	1839.4	1816.7	1816.7
10°	2338.9	2251.4	2131.3	2011.3	1910.7	1826.4	1729.1	1657.7	1631.7	1573.4	1579.8
12.5°	2416.8	2338.9	2163.8	2040.5	1888.0	1696.6	1482.5	1317.1	1239.2	1164.6	1193.8
15°	2527.1	2413.6	2225.4	2047.0	1800.4	1469.5	1119.2	934.3	862.9	846.7	843.4
17.5°	2647.1	2527.1	2303.3	2030.8	1622.0	1135.4	824.0	716.9	729.9	749.4	746.1
20°	2780.1	2634.2	2361.7	1975.6	1339.8	824.0	674.8	671.5	691.0	720.2	726.7
22.5°	2919.6	2793.1	2433.0	1810.2	999.2	661.8	648.8	648.8	661.8	697.5	691.0
25°	3075.3	2906.7	2468.7	1553.9	716.9	609.9	616.4	629.3	635.8	665.0	668.3
27.5°	3195.4	3033.2	2478.4	1245.7	583.9	564.5	580.7	596.9	606.6	629.3	639.1
30°	3305.7	3192.1	2426.5	927.8	535.3	525.5	532.0	554.7	574.2	593.7	593.7
32.5°	3445.2	3283.0	2306.5	658.5	506.1	489.8	486.6	496.3	519.0	541.8	541.8
35°	3587.9	3435.4	2115.1	528.8	480.1	457.4	444.4	434.7	444.4	460.7	473.6
37.5°	3795.5	3665.8	1875.1	486.6	460.7	428.2	402.3	379.6	363.3	360.1	369.8
40°	4090.7	3925.3	1566.9	457.4	437.9	399.0	360.1	321.2	285.5	262.8	266.0
42.5°	4538.4	4308.1	1232.7	441.2	421.7	366.6	311.4	256.3	210.9	188.2	188.2
45°	5177.5	4814.1	905.1	425.0	402.3	327.6	256.3	191.4	146.0	133.0	136.2
47.5°	6141.0	5424.0	648.8	399.0	376.3	285.5	201.1	136.2	107.1	100.6	103.8
50°	7399.6	6147.4	506.1	369.8	343.9	240.1	149.2	100.6	84.3	81.1	84.3
52.5°	8720.0	6877.4	444.4	343.9	295.2	191.4	110.3	81.1	71.4	68.1	71.4
55°	9848.9	7347.7	386.0	304.9	236.8	142.7	87.6	71.4	61.6	51.9	51.9
57.5°	10990.8	7584.6	304.9	253.0	175.2	107.1	74.6	61.6	51.9	42.2	38.9
60°	11918.6	7753.2	217.4	188.2	123.3	84.3	64.9	55.1	42.2	32.4	29.2
62.5°	12528.5	7269.9	159.0	142.7	90.8	71.4	55.1	45.4	32.4	22.7	22.7
65°	12226.8	6601.6	123.3	100.6	68.1	55.1	45.4	32.4	22.7	13.0	9.7
67.5°	10971.3	5378.6	100.6	74.6	51.9	42.2	35.7	26.0	13.0	3.2	3.2
70°	8184.7	3941.5	81.1	55.1	42.2	32.4	26.0	16.2	6.5	3.2	0.0
72.5°	4476.8	2157.3	64.9	45.4	32.4	26.0	19.5	13.0	6.5	0.0	0.0
75°	1479.3	574.2	48.7	32.4	19.5	16.2	13.0	9.7	3.2	0.0	0.0
77.5°	356.8	149.2	38.9	29.2	16.2	9.7	6.5	3.2	3.2	0.0	0.0
80°	110.3	61.6	29.2	19.5	13.0	9.7	3.2	0.0	0.0	0.0	0.0
82.5°	45.4	29.2	13.0	13.0	9.7	3.2	0.0	0.0	0.0	0.0	0.0
85°	22.7	16.2	9.7	6.5	6.5	3.2	0.0	0.0	0.0	0.0	0.0
87.5°	16.2	6.5	3.2	3.2	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)