

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: P483602

Luminaire Tested: **IFLD-L-SA7A-735-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483602  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-735-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

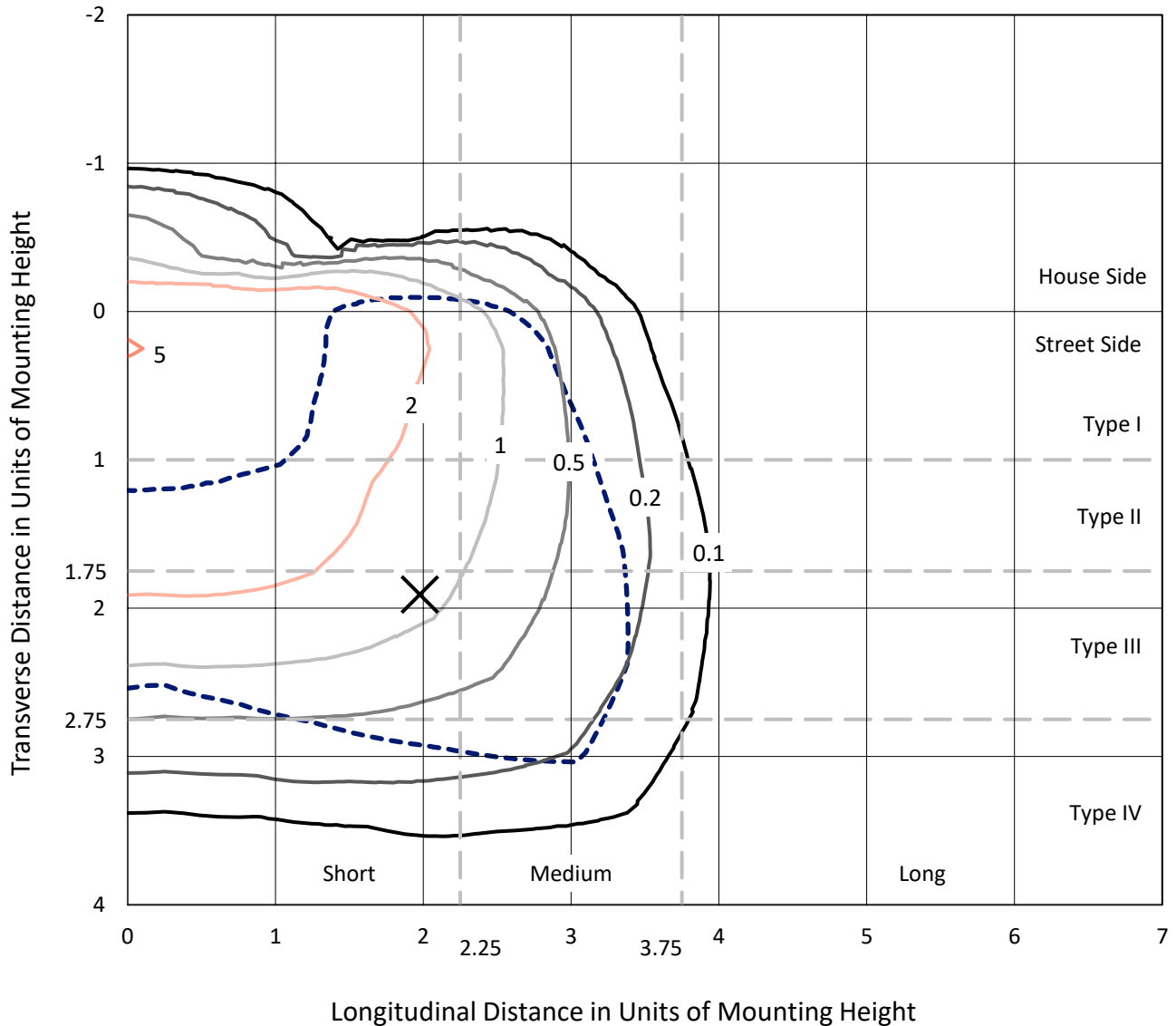
Lumens per Lamp: N/A  
Luminaire Lumens: 22778.2 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 217.6  
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

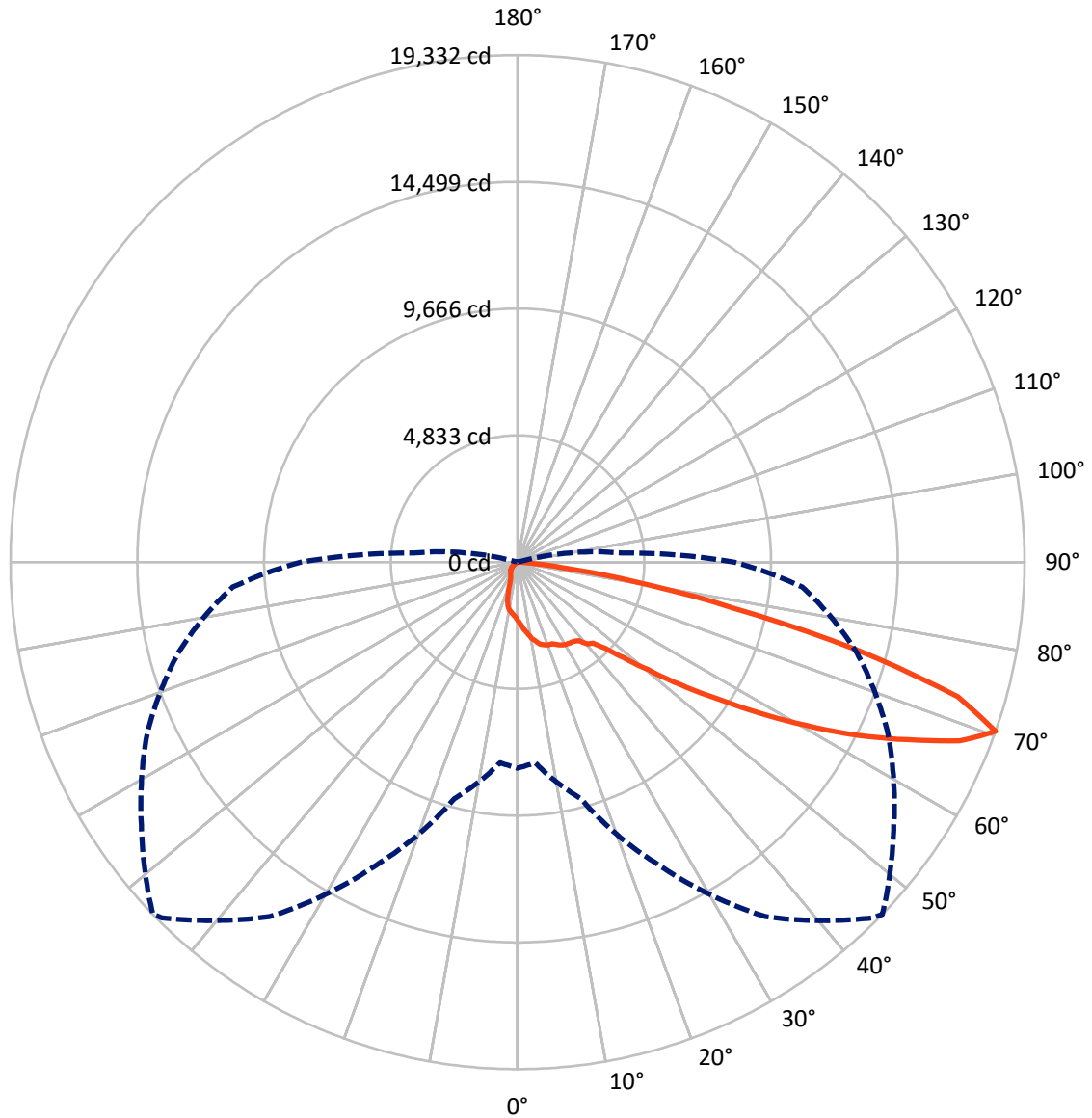
✕ Max cd  
 - - - 1/2 Max cd



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	2266.5	0.0	2266.5
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	20511.7	0.0	20511.7
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	22778.2	0.0	22778.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	223.0	1.0
10°-20°	673.3	3.0
20°-30°	1078.5	4.7
30°-40°	1539.5	6.8
40°-50°	2658.3	11.7
50°-60°	5089.5	22.3
60°-70°	7536.7	33.1
70°-80°	3732.8	16.4
80°-90°	246.7	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°	22778.2	100.0
0°-180°	22778.2	100.0

**Coefficient of Utilization**

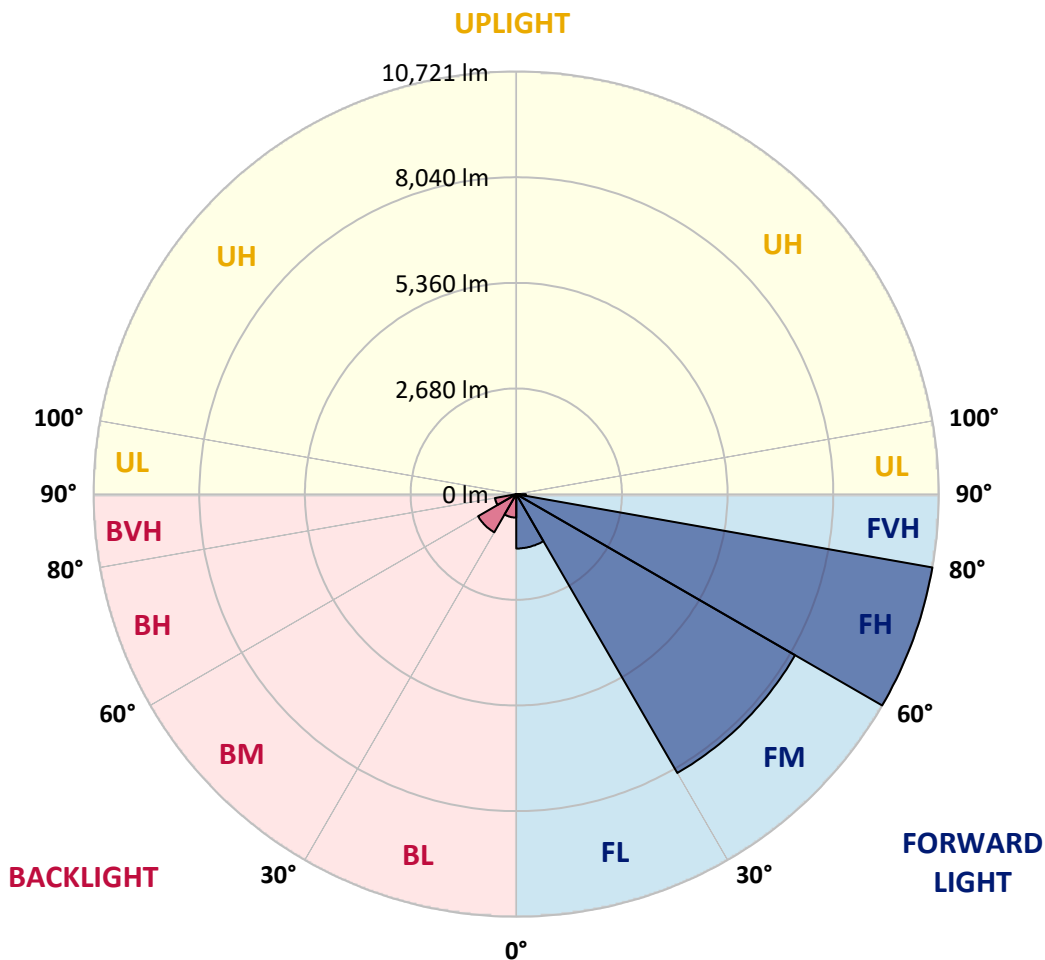


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1379.4	6.1			
FM (30°-60°)	8168.2	35.9			
FH (60°-80°)	10720.6	47.1			G4/12000
FVH (80°-90°)	243.5	1.1			G3/500
BL (0°-30°)	595.5	2.6	B2/1000		
BM (30°-60°)	1119.0	4.9	B2/2500		
BH (60°-80°)	548.9	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°	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1
2.5°	2495.1	2478.7	2452.5	2442.7	2416.4	2403.3	2383.7	2373.8	2337.8	2301.7	2278.7
5°	2800.1	2760.7	2773.8	2734.5	2649.2	2580.4	2577.1	2501.7	2419.7	2354.1	2265.6
7.5°	3108.3	3075.5	3026.3	2970.6	2875.5	2773.8	2744.3	2672.2	2557.4	2442.7	2324.6
10°	3341.1	3318.1	3275.5	3196.8	3065.6	2950.9	2954.2	2832.8	2711.5	2580.4	2419.7
12.5°	3485.3	3495.2	3432.9	3354.2	3239.4	3095.1	3091.9	3009.9	2872.2	2734.5	2544.3
15°	3629.6	3665.7	3570.6	3478.8	3331.2	3226.3	3246.0	3147.6	3013.2	2855.8	2646.0
17.5°	3652.5	3662.4	3642.7	3508.3	3400.1	3311.5	3314.8	3249.3	3147.6	2977.1	2796.8
20°	3613.2	3606.6	3583.7	3485.3	3413.2	3360.7	3364.0	3347.6	3291.9	3154.2	2908.3
22.5°	3498.4	3498.4	3468.9	3403.4	3370.6	3419.7	3380.4	3442.7	3383.7	3301.7	3098.4
25°	3406.6	3442.7	3426.3	3383.7	3396.8	3462.4	3482.0	3541.1	3531.2	3429.6	3229.6
27.5°	3505.0	3462.4	3472.2	3423.0	3472.2	3570.6	3580.4	3623.0	3619.8	3537.8	3347.6
30°	3570.6	3609.9	3534.5	3426.3	3478.8	3646.0	3639.4	3695.2	3721.4	3623.0	3459.1
32.5°	3780.4	3747.6	3685.3	3541.1	3547.6	3642.7	3672.2	3744.3	3760.7	3701.7	3567.3
35°	4209.9	4160.7	3888.6	3672.2	3639.4	3685.3	3705.0	3846.0	3875.5	3809.9	3682.0
37.5°	4872.2	4760.8	4432.9	3954.2	3806.6	3796.8	3796.8	3983.7	4095.2	3944.3	3852.5
40°	5819.8	5662.4	5308.3	4475.5	4026.3	4065.7	4105.0	4206.6	4193.5	4095.2	4075.5
42.5°	7026.4	6905.1	6521.5	5350.9	4446.0	4249.3	4216.5	4354.2	4560.8	4521.4	4508.3
45°	8033.0	8039.5	7793.6	6551.0	5170.6	4672.2	4695.2	4800.1	5147.7	5118.1	5114.9
47.5°	8767.4	8675.6	8639.5	7708.4	6226.4	5475.5	5442.7	5514.9	5967.3	6154.2	6239.5
50°	9436.3	9374.0	9288.7	8833.0	7495.2	6482.1	6449.3	6455.9	7147.7	7410.0	7619.8
52.5°	10265.8	10344.5	10062.5	9783.8	9137.9	7790.3	7754.3	7626.4	8485.4	8846.1	9095.3
55°	11288.8	11141.2	10823.2	10967.5	10708.4	9203.5	9137.9	8987.1	10010.1	10160.9	10423.2
57.5°	11515.0	11403.5	11731.4	12242.9	12492.1	10862.5	10836.3	10564.2	11292.0	11154.3	11895.3
60°	12079.0	12108.5	12564.2	13580.6	14013.4	12777.3	12649.5	12170.8	12534.7	12560.9	13351.1
62.5°	12659.3	12590.4	13610.1	14587.2	15252.8	14590.5	14547.9	13597.0	14010.1	13675.7	14721.6
65°	12233.1	12338.0	13797.0	15433.1	16859.4	16364.3	16328.2	14970.8	15197.1	14780.7	15279.0
67.5°	10718.3	10505.1	12547.8	15046.2	17685.6	18223.3	18184.0	16469.2	15865.9	14774.1	14121.6
70°	7855.9	7672.3	9337.9	12741.3	16502.0	19174.2	19331.6	17511.9	15593.8	13397.0	10895.3
72.5°	3849.3	3852.5	5232.9	8639.5	13056.0	17475.8	17554.5	16056.1	13397.0	9875.6	6170.6
75°	1137.7	1150.8	1937.7	4236.2	8439.5	13272.4	13360.9	12187.2	9285.4	5101.8	2105.0
77.5°	416.4	416.4	642.6	1590.2	4209.9	8377.2	8370.7	7482.1	4701.7	1727.9	491.8
80°	216.4	226.2	334.4	649.2	1823.0	4364.0	4528.0	3662.4	1786.9	727.9	144.3
82.5°	88.5	98.4	183.6	334.4	875.4	1531.2	1675.4	1436.1	777.1	508.2	65.6
85°	26.2	29.5	88.5	186.9	344.3	383.6	426.2	482.0	488.5	393.5	29.5
87.5°	3.3	3.3	36.1	62.3	75.4	82.0	95.1	95.1	249.2	275.4	16.4
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°	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1
2.5°	2252.5	2236.1	2209.9	2150.9	2137.8	2095.1	2091.8	2052.5	2065.6	2039.4	2029.6
5°	2236.1	2200.0	2127.9	2082.0	2036.1	2006.6	1986.9	1970.5	1967.3	1954.1	1947.6
7.5°	2265.6	2216.4	2105.0	2032.8	1954.1	1927.9	1885.3	1882.0	1859.1	1836.1	1836.1
10°	2364.0	2275.5	2154.1	2032.8	1931.2	1845.9	1747.6	1675.4	1649.2	1590.2	1596.8
12.5°	2442.7	2364.0	2186.9	2062.3	1908.2	1714.8	1498.4	1331.2	1252.5	1177.1	1206.6
15°	2554.2	2439.4	2249.2	2068.9	1819.7	1485.3	1131.2	944.3	872.2	855.8	852.5
17.5°	2675.5	2554.2	2327.9	2052.5	1639.4	1147.6	832.8	724.6	737.7	757.4	754.1
20°	2809.9	2662.4	2386.9	1996.8	1354.1	832.8	682.0	678.7	698.4	727.9	734.4
22.5°	2950.9	2823.0	2459.1	1829.5	1009.9	668.9	655.8	655.8	668.9	704.9	698.4
25°	3108.3	2937.8	2495.1	1570.5	724.6	616.4	623.0	636.1	642.6	672.1	675.4
27.5°	3229.6	3065.6	2505.0	1259.0	590.2	570.5	586.9	603.3	613.1	636.1	645.9
30°	3341.1	3226.3	2452.5	937.7	541.0	531.2	537.7	560.7	580.3	600.0	600.0
32.5°	3482.0	3318.1	2331.2	665.6	511.5	495.1	491.8	501.7	524.6	547.6	547.6
35°	3626.3	3472.2	2137.8	534.4	485.3	462.3	449.2	439.4	449.2	465.6	478.7
37.5°	3836.1	3705.0	1895.1	491.8	465.6	432.8	406.6	383.6	367.2	363.9	373.8
40°	4134.5	3967.3	1583.6	462.3	442.6	403.3	363.9	324.6	288.5	265.6	268.9
42.5°	4587.0	4354.2	1245.9	445.9	426.2	370.5	314.8	259.0	213.1	190.2	190.2
45°	5232.9	4865.7	914.8	429.5	406.6	331.2	259.0	193.4	147.5	134.4	137.7
47.5°	6206.7	5482.1	655.8	403.3	380.3	288.5	203.3	137.7	108.2	101.6	104.9
50°	7478.9	6213.3	511.5	373.8	347.5	242.6	150.8	101.6	85.2	82.0	85.2
52.5°	8813.3	6951.0	449.2	347.5	298.4	193.4	111.5	82.0	72.1	68.9	72.1
55°	9954.3	7426.4	390.2	308.2	239.3	144.3	88.5	72.1	62.3	52.5	52.5
57.5°	11108.4	7665.7	308.2	255.7	177.1	108.2	75.4	62.3	52.5	42.6	39.3
60°	12046.2	7836.2	219.7	190.2	124.6	85.2	65.6	55.7	42.6	32.8	29.5
62.5°	12662.6	7347.7	160.7	144.3	91.8	72.1	55.7	45.9	32.8	23.0	23.0
65°	12357.6	6672.3	124.6	101.6	68.9	55.7	45.9	32.8	23.0	13.1	9.8
67.5°	11088.8	5436.2	101.6	75.4	52.5	42.6	36.1	26.2	13.1	3.3	3.3
70°	8272.3	3983.7	82.0	55.7	42.6	32.8	26.2	16.4	6.6	3.3	0.0
72.5°	4524.7	2180.4	65.6	45.9	32.8	26.2	19.7	13.1	6.6	0.0	0.0
75°	1495.1	580.3	49.2	32.8	19.7	16.4	13.1	9.8	3.3	0.0	0.0
77.5°	360.7	150.8	39.3	29.5	16.4	9.8	6.6	3.3	3.3	0.0	0.0
80°	111.5	62.3	29.5	19.7	13.1	9.8	3.3	0.0	0.0	0.0	0.0
82.5°	45.9	29.5	13.1	13.1	9.8	3.3	0.0	0.0	0.0	0.0	0.0
85°	23.0	16.4	9.8	6.6	6.6	3.3	0.0	0.0	0.0	0.0	0.0
87.5°	16.4	6.6	3.3	3.3	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)