

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: P483568

Luminaire Tested: **IFLD-L-SA8A-730-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483568  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-730-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

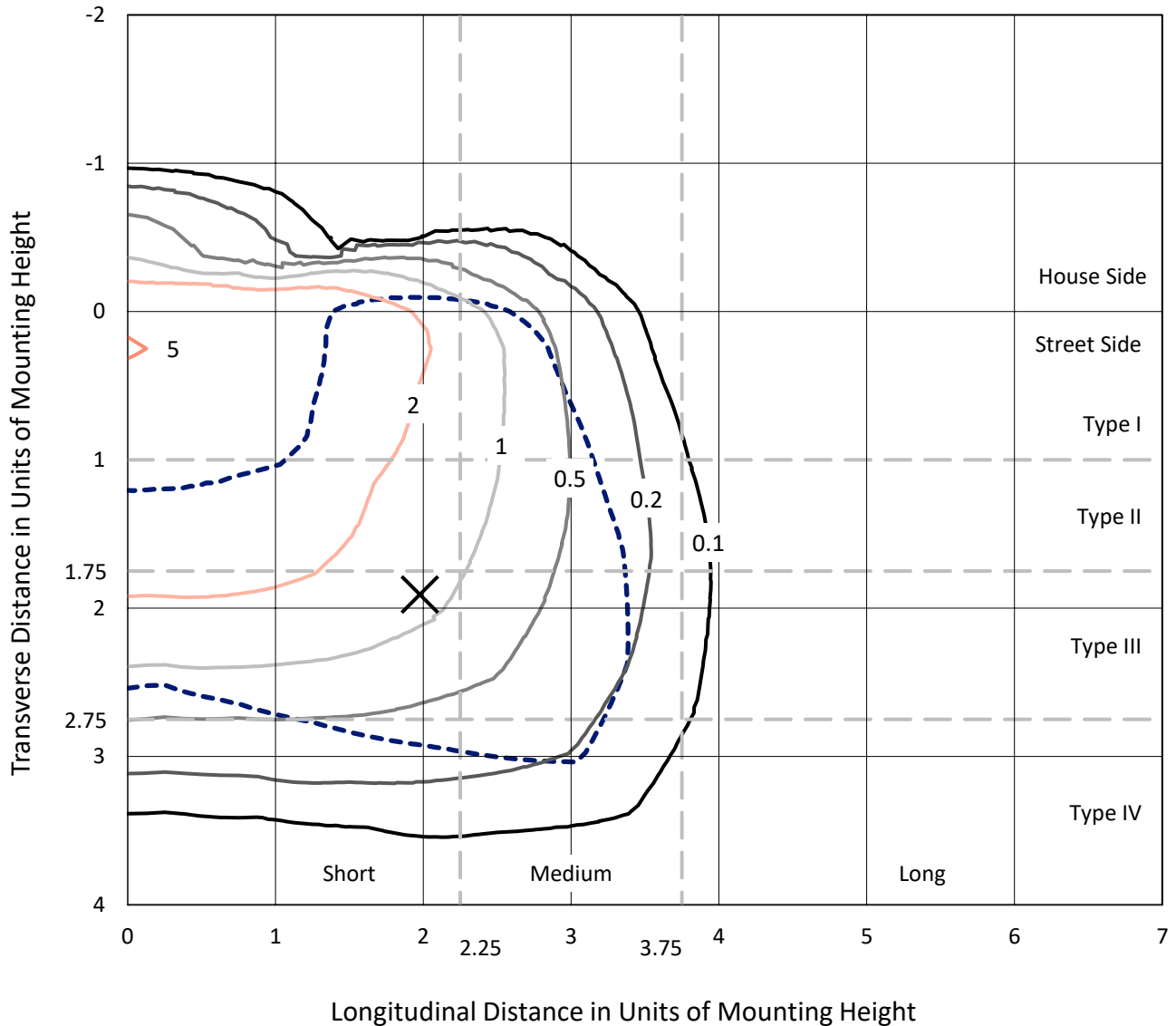
Lumens per Lamp: N/A  
Luminaire Lumens: 23015.8 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 247.8  
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

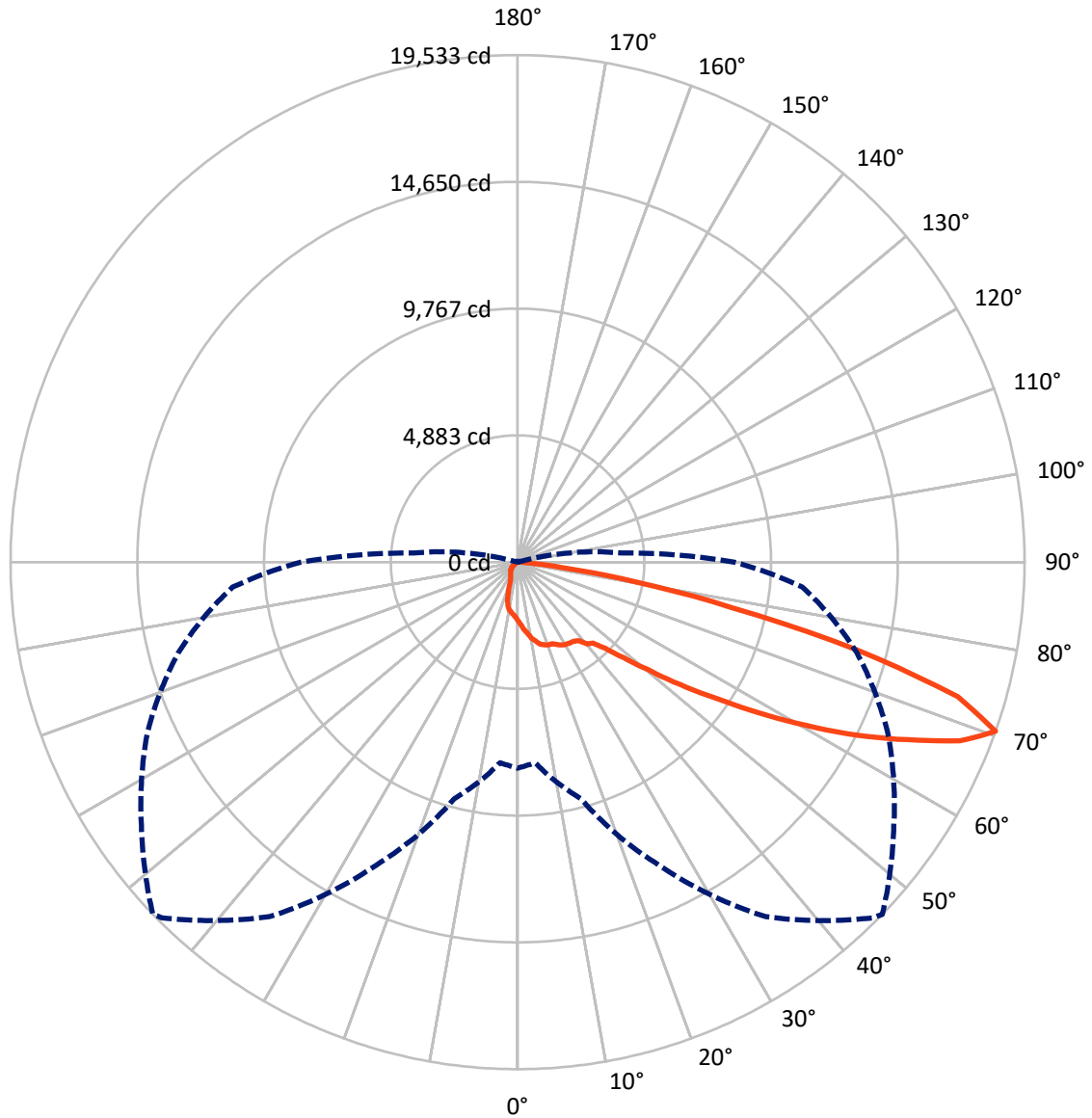
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	2290.1	0.0	2290.1
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	20725.7	0.0	20725.7
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	23015.8	0.0	23015.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.3	1.0
10°-20°	680.4	3.0
20°-30°	1089.8	4.7
30°-40°	1555.5	6.8
40°-50°	2686.0	11.7
50°-60°	5142.6	22.3
60°-70°	7615.3	33.1
70°-80°	3771.8	16.4
80°-90°	249.2	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°	23015.8	100.0
0°-180°	23015.8	100.0



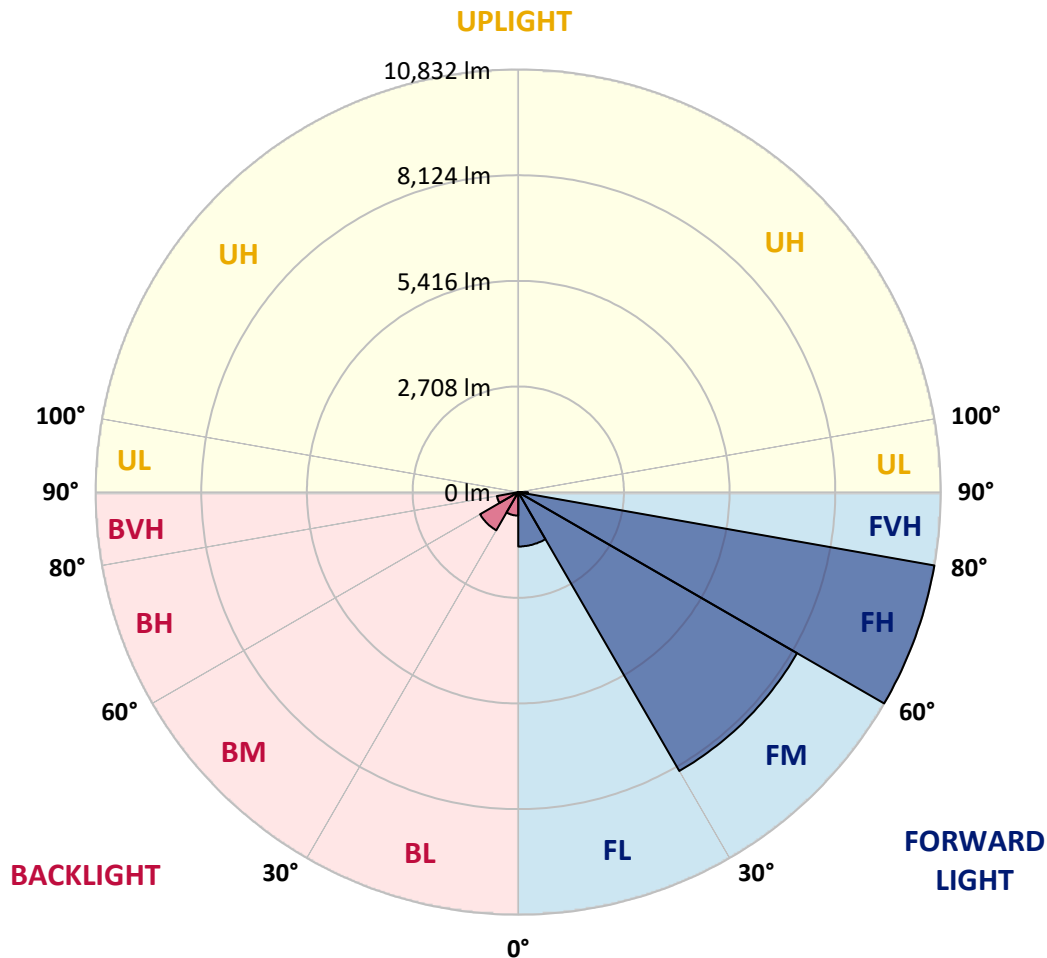
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1393.8	6.1			
FM	(30°-60°)	8253.4	35.9			
FH	(60°-80°)	10832.4	47.1			G4/12000
FVH	(80°-90°)	246.1	1.1			G3/500
BL	(0°-30°)	601.7	2.6	B2/1000		
BM	(30°-60°)	1130.6	4.9	B2/2500		
BH	(60°-80°)	554.7	2.4	B2/1000		G2/1000
BVH	(80°-90°)	3.2	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°	2259.4	2259.4	2259.4	2259.4	2259.4	2259.4	2259.4	2259.4	2259.4	2259.4	2259.4
2.5°	2521.2	2504.6	2478.1	2468.2	2441.7	2428.4	2408.5	2398.6	2362.1	2325.7	2302.5
5°	2829.3	2789.5	2802.8	2763.0	2676.9	2607.3	2604.0	2527.8	2445.0	2378.7	2289.3
7.5°	3140.7	3107.6	3057.9	3001.5	2905.5	2802.8	2772.9	2700.1	2584.1	2468.2	2348.9
10°	3375.9	3352.7	3309.6	3230.1	3097.6	2981.7	2985.0	2862.4	2739.8	2607.3	2445.0
12.5°	3521.7	3531.6	3468.7	3389.2	3273.2	3127.4	3124.1	3041.3	2902.2	2763.0	2570.9
15°	3667.4	3703.9	3607.8	3515.1	3366.0	3260.0	3279.8	3180.4	3044.6	2885.6	2673.6
17.5°	3690.6	3700.6	3680.7	3544.9	3435.5	3346.1	3349.4	3283.1	3180.4	3008.2	2826.0
20°	3650.9	3644.3	3621.1	3521.7	3448.8	3395.8	3399.1	3382.5	3326.2	3187.1	2938.6
22.5°	3534.9	3534.9	3505.1	3438.9	3405.7	3455.4	3415.7	3478.6	3419.0	3336.2	3130.7
25°	3442.2	3478.6	3462.0	3419.0	3432.2	3498.5	3518.4	3578.0	3568.1	3465.4	3263.3
27.5°	3541.6	3498.5	3508.4	3458.7	3508.4	3607.8	3617.8	3660.8	3657.5	3574.7	3382.5
30°	3607.8	3647.6	3571.4	3462.0	3515.1	3684.0	3677.4	3733.7	3760.2	3660.8	3495.2
32.5°	3819.8	3786.7	3723.8	3578.0	3584.6	3680.7	3710.5	3783.4	3800.0	3740.3	3604.5
35°	4253.8	4204.1	3929.2	3710.5	3677.4	3723.8	3743.6	3886.1	3915.9	3849.7	3720.5
37.5°	4923.1	4810.4	4479.1	3995.4	3846.3	3836.4	3836.4	4025.2	4137.9	3985.5	3892.7
40°	5880.5	5721.5	5363.7	4522.2	4068.3	4108.1	4147.8	4250.5	4237.3	4137.9	4118.0
42.5°	7099.7	6977.1	6589.5	5406.8	4492.4	4293.6	4260.5	4399.6	4608.3	4568.6	4555.3
45°	8116.8	8123.4	7874.9	6619.3	5224.5	4721.0	4744.2	4850.2	5201.3	5171.5	5168.2
47.5°	8858.9	8766.1	8729.7	7788.8	6291.3	5532.6	5499.5	5572.4	6029.6	6218.4	6304.6
50°	9534.7	9471.8	9385.6	8925.1	7573.4	6549.7	6516.6	6523.2	7222.3	7487.3	7699.3
52.5°	10372.9	10452.4	10167.5	9885.9	9233.2	7871.6	7835.2	7705.9	8573.9	8938.4	9190.2
55°	11406.5	11257.4	10936.1	11081.9	10820.1	9299.5	9233.2	9080.8	10114.5	10266.9	10531.9
57.5°	11635.1	11522.5	11853.8	12370.6	12622.4	10975.8	10949.3	10674.4	11409.8	11270.7	12019.4
60°	12204.9	12234.8	12695.3	13722.3	14159.6	12910.6	12781.4	12297.7	12665.5	12692.0	13490.4
62.5°	12791.3	12721.8	13752.1	14739.4	15411.9	14742.7	14699.6	13738.8	14156.3	13818.4	14875.2
65°	12360.7	12466.7	13940.9	15594.1	17035.2	16535.0	16498.5	15127.0	15355.6	14934.8	15438.4
67.5°	10830.1	10614.7	12678.7	15203.2	17870.1	18413.4	18373.7	16641.0	16031.4	14928.2	14268.9
70°	7937.9	7752.3	9435.3	12874.2	16674.1	19374.2	19533.2	17694.5	15756.4	13536.8	11009.0
72.5°	3889.4	3892.7	5287.5	8729.7	13192.2	17658.1	17737.6	16223.6	13536.8	9978.6	6235.0
75°	1149.6	1162.8	1958.0	4280.3	8527.6	13410.9	13500.3	12314.3	9382.3	5155.0	2126.9
77.5°	420.7	420.7	649.3	1606.8	4253.8	8464.6	8458.0	7560.2	4750.8	1745.9	496.9
80°	218.7	228.6	337.9	656.0	1842.0	4409.6	4575.2	3700.6	1805.6	735.5	145.8
82.5°	89.4	99.4	185.5	337.9	884.6	1547.2	1692.9	1451.1	785.2	513.5	66.3
85°	26.5	29.8	89.4	188.8	347.9	387.6	430.7	487.0	493.6	397.6	29.8
87.5°	3.3	3.3	36.4	62.9	76.2	82.8	96.1	96.1	251.8	278.3	16.6
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°	2259.4	2259.4	2259.4	2259.4	2259.4	2259.4	2259.4	2259.4	2259.4	2259.4	2259.4
2.5°	2276.0	2259.4	2232.9	2173.3	2160.1	2117.0	2113.7	2073.9	2087.2	2060.7	2050.7
5°	2259.4	2223.0	2150.1	2103.7	2057.3	2027.5	2007.7	1991.1	1987.8	1974.5	1967.9
7.5°	2289.3	2239.6	2126.9	2054.0	1974.5	1948.0	1905.0	1901.6	1878.4	1855.3	1855.3
10°	2388.6	2299.2	2176.6	2054.0	1951.3	1865.2	1765.8	1692.9	1666.4	1606.8	1613.4
12.5°	2468.2	2388.6	2209.7	2083.9	1928.1	1732.7	1514.0	1345.1	1265.6	1189.4	1219.2
15°	2580.8	2464.8	2272.7	2090.5	1838.7	1500.8	1143.0	954.1	881.2	864.7	861.4
17.5°	2703.4	2580.8	2352.2	2073.9	1656.5	1159.5	841.5	732.2	745.4	765.3	762.0
20°	2839.2	2690.1	2411.8	2017.6	1368.3	841.5	689.1	685.8	705.7	735.5	742.1
22.5°	2981.7	2852.5	2484.7	1848.6	1020.4	675.8	662.6	662.6	675.8	712.3	705.7
25°	3140.7	2968.4	2521.2	1586.9	732.2	622.8	629.5	642.7	649.3	679.2	682.5
27.5°	3263.3	3097.6	2531.1	1272.2	596.3	576.5	593.0	609.6	619.5	642.7	652.7
30°	3375.9	3260.0	2478.1	947.5	546.6	536.7	543.3	566.5	586.4	606.3	606.3
32.5°	3518.4	3352.7	2355.5	672.5	516.8	500.3	496.9	506.9	530.1	553.3	553.3
35°	3664.1	3508.4	2160.1	540.0	490.3	467.1	453.9	443.9	453.9	470.4	483.7
37.5°	3876.2	3743.6	1914.9	496.9	470.4	437.3	410.8	387.6	371.1	367.7	377.7
40°	4177.6	4008.7	1600.2	467.1	447.2	407.5	367.7	328.0	291.5	268.3	271.7
42.5°	4634.8	4399.6	1258.9	450.6	430.7	374.4	318.0	261.7	215.3	192.2	192.2
45°	5287.5	4916.4	924.3	434.0	410.8	334.6	261.7	195.5	149.1	135.8	139.1
47.5°	6271.4	5539.3	662.6	407.5	384.3	291.5	205.4	139.1	109.3	102.7	106.0
50°	7556.9	6278.1	516.8	377.7	351.2	245.2	152.4	102.7	86.1	82.8	86.1
52.5°	8905.2	7023.5	453.9	351.2	301.5	195.5	112.6	82.8	72.9	69.6	72.9
55°	10058.1	7503.9	394.2	311.4	241.8	145.8	89.4	72.9	62.9	53.0	53.0
57.5°	11224.3	7745.7	311.4	258.4	178.9	109.3	76.2	62.9	53.0	43.1	39.8
60°	12171.8	7918.0	222.0	192.2	125.9	86.1	66.3	56.3	43.1	33.1	29.8
62.5°	12794.7	7424.3	162.3	145.8	92.8	72.9	56.3	46.4	33.1	23.2	23.2
65°	12486.6	6741.9	125.9	102.7	69.6	56.3	46.4	33.1	23.2	13.3	9.9
67.5°	11204.4	5492.9	102.7	76.2	53.0	43.1	36.4	26.5	13.3	3.3	3.3
70°	8358.6	4025.2	82.8	56.3	43.1	33.1	26.5	16.6	6.6	3.3	0.0
72.5°	4571.9	2203.1	66.3	46.4	33.1	26.5	19.9	13.3	6.6	0.0	0.0
75°	1510.7	586.4	49.7	33.1	19.9	16.6	13.3	9.9	3.3	0.0	0.0
77.5°	364.4	152.4	39.8	29.8	16.6	9.9	6.6	3.3	3.3	0.0	0.0
80°	112.6	62.9	29.8	19.9	13.3	9.9	3.3	0.0	0.0	0.0	0.0
82.5°	46.4	29.8	13.3	13.3	9.9	3.3	0.0	0.0	0.0	0.0	0.0
85°	23.2	16.6	9.9	6.6	6.6	3.3	0.0	0.0	0.0	0.0	0.0
87.5°	16.6	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)