

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: P483803

Luminaire Tested: **IFLD-L-SA8B-830-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483803  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-830-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W  
distribution lens with House Side Shield  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

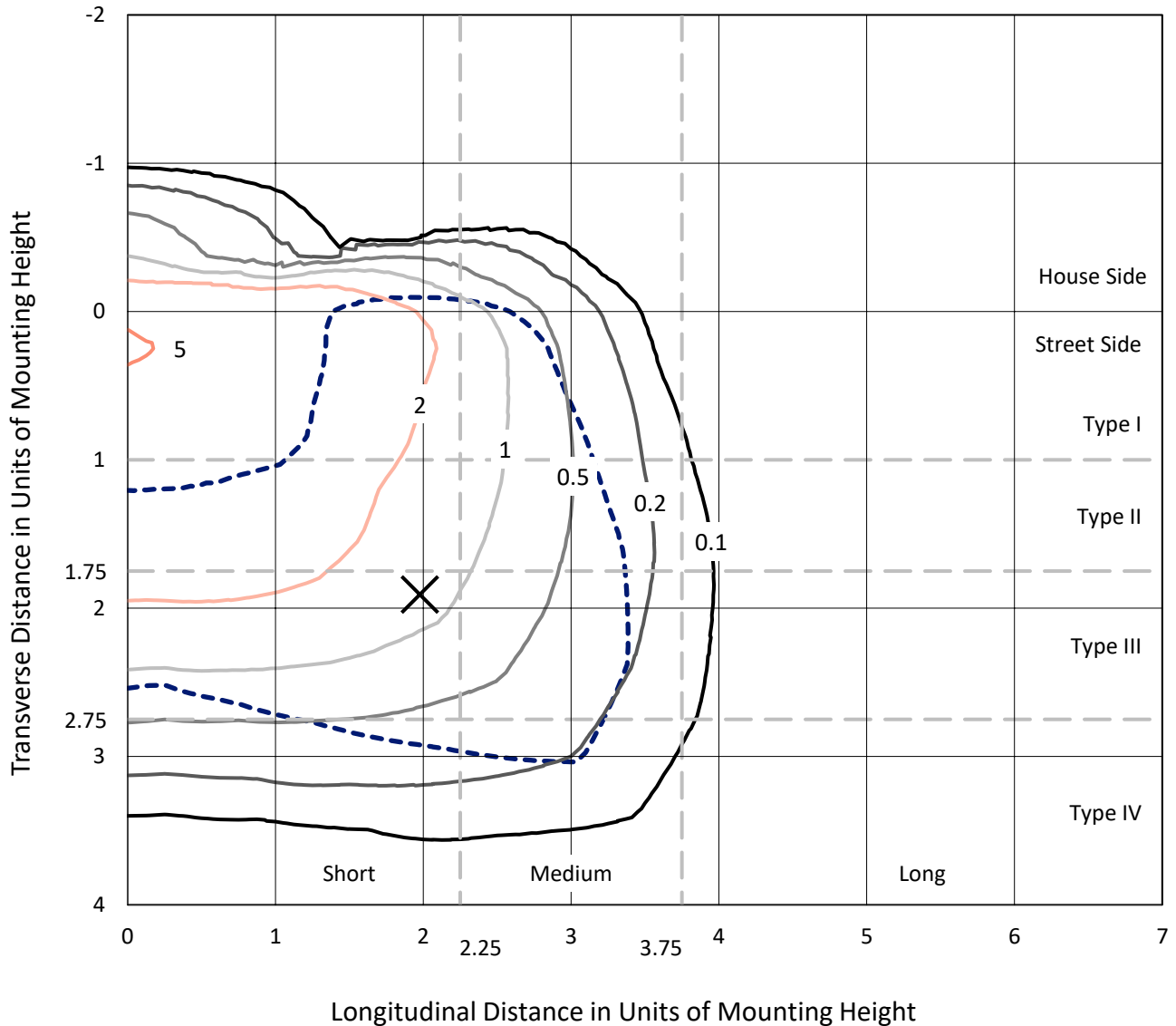
Lumens per Lamp: N/A  
Luminaire Lumens: 23861 lumens  
Efficiency: N/A  
Efficacy: 74.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 320  
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

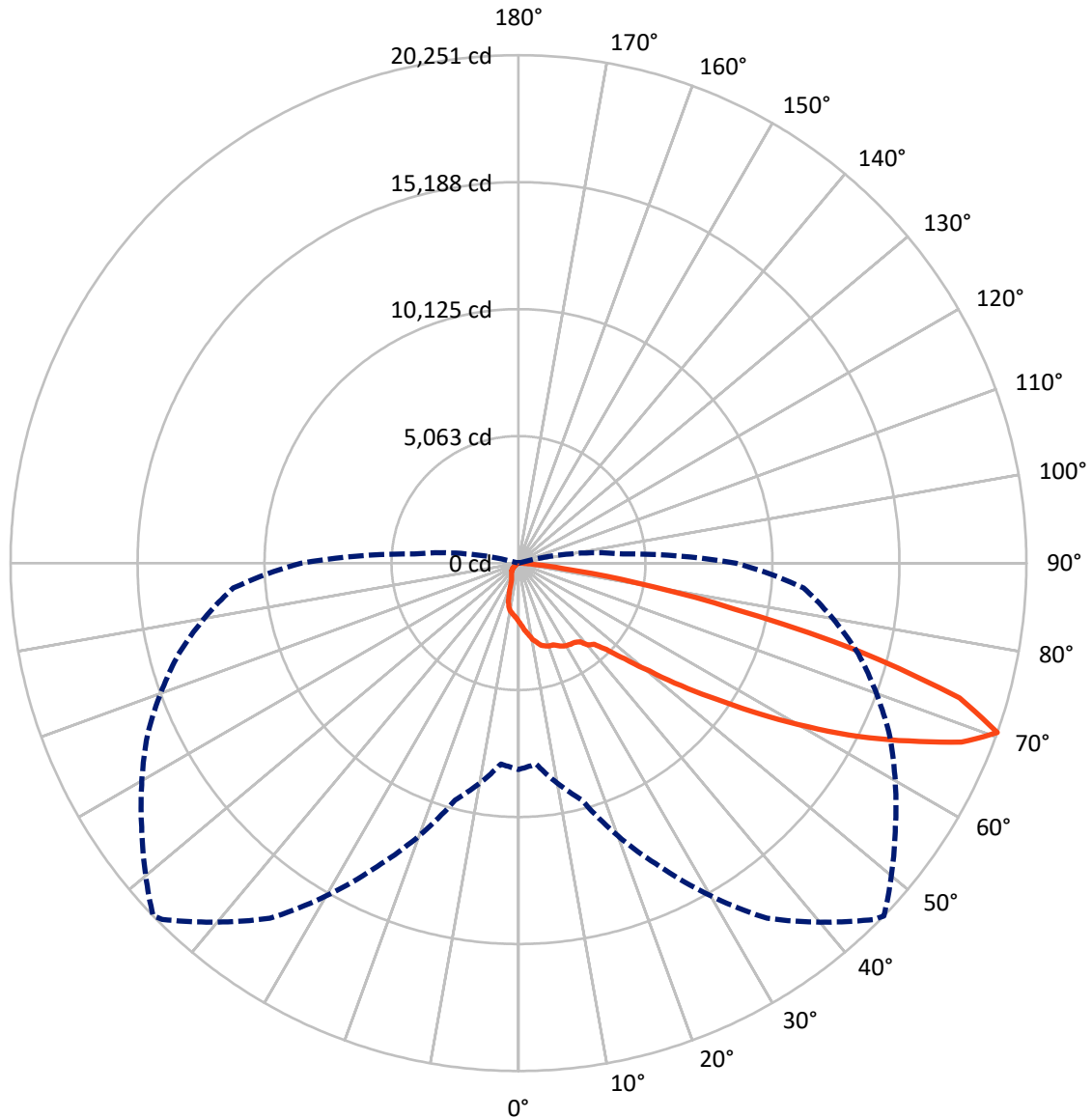
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	2374.2	0.0	2374.2
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	21486.8	0.0	21486.8
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	23861.0	0.0	23861.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.6	1.0
10°-20°	705.3	3.0
20°-30°	1129.8	4.7
30°-40°	1612.6	6.8
40°-50°	2784.6	11.7
50°-60°	5331.4	22.3
60°-70°	7894.9	33.1
70°-80°	3910.3	16.4
80°-90°	258.4	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°	23861.0	100.0
0°-180°	23861.0	100.0



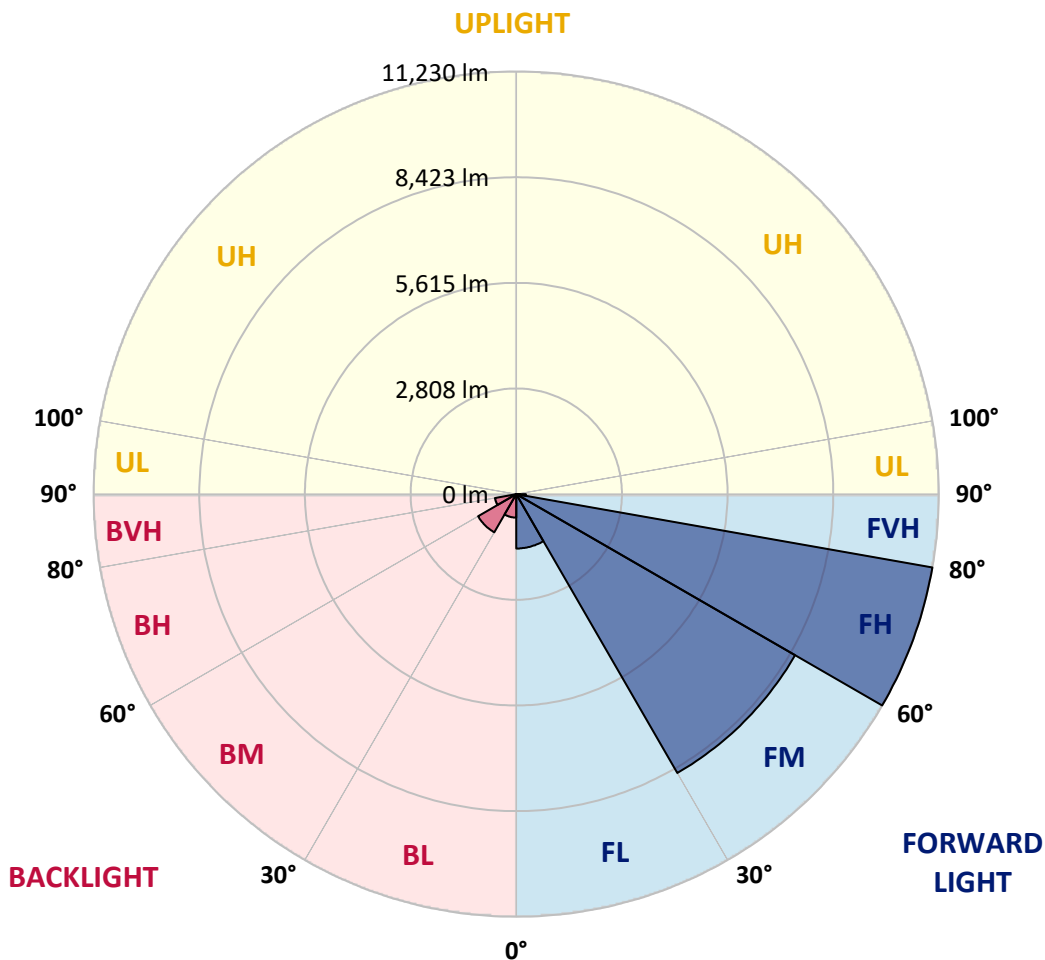
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1445.0	6.1			
FM (30°-60°)	8556.5	35.9			
FH (60°-80°)	11230.2	47.1			G4/12000
FVH (80°-90°)	255.1	1.1			G3/500
BL (0°-30°)	623.8	2.6	B2/1000		
BM (30°-60°)	1172.2	4.9	B2/2500		
BH (60°-80°)	575.0	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.3	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°	2342.4	2342.4	2342.4	2342.4	2342.4	2342.4	2342.4	2342.4	2342.4	2342.4	2342.4
2.5°	2613.7	2596.6	2569.1	2558.8	2531.3	2517.6	2497.0	2486.7	2448.9	2411.1	2387.1
5°	2933.2	2891.9	2905.7	2864.5	2775.2	2703.0	2699.6	2620.6	2534.7	2466.1	2373.3
7.5°	3256.0	3221.7	3170.1	3111.8	3012.2	2905.7	2874.8	2799.2	2679.0	2558.8	2435.1
10°	3499.9	3475.8	3431.2	3348.7	3211.4	3091.2	3094.6	2967.5	2840.4	2703.0	2534.7
12.5°	3651.0	3661.3	3596.0	3513.6	3393.4	3242.3	3238.8	3153.0	3008.7	2864.5	2665.3
15°	3802.1	3839.9	3740.3	3644.1	3489.6	3379.7	3400.3	3297.2	3156.4	2991.5	2771.7
17.5°	3826.2	3836.5	3815.9	3675.0	3561.7	3469.0	3472.4	3403.7	3297.2	3118.6	2929.7
20°	3784.9	3778.1	3754.0	3651.0	3575.4	3520.5	3523.9	3506.7	3448.4	3304.1	3046.5
22.5°	3664.7	3664.7	3633.8	3565.1	3530.8	3582.3	3541.1	3606.3	3544.5	3458.7	3245.7
25°	3568.6	3606.3	3589.2	3544.5	3558.3	3627.0	3647.6	3709.4	3699.1	3592.6	3383.1
27.5°	3671.6	3627.0	3637.3	3585.7	3637.3	3740.3	3750.6	3795.2	3791.8	3705.9	3506.7
30°	3740.3	3781.5	3702.5	3589.2	3644.1	3819.3	3812.4	3870.8	3898.3	3795.2	3623.5
32.5°	3960.1	3925.8	3860.5	3709.4	3716.3	3815.9	3846.8	3922.3	3939.5	3877.7	3736.9
35°	4410.0	4358.5	4073.5	3846.8	3812.4	3860.5	3881.1	4028.8	4059.7	3991.0	3857.1
37.5°	5103.8	4987.1	4643.6	4142.1	3987.6	3977.3	3977.3	4173.1	4289.8	4131.8	4035.7
40°	6096.4	5931.6	5560.6	4688.2	4217.7	4258.9	4300.1	4406.6	4392.9	4289.8	4269.2
42.5°	7360.4	7233.3	6831.4	5605.3	4657.3	4451.3	4416.9	4561.2	4777.5	4736.3	4722.6
45°	8414.8	8421.7	8164.1	6862.4	5416.4	4894.3	4918.4	5028.3	5392.3	5361.4	5358.0
47.5°	9184.2	9088.0	9050.2	8074.8	6522.3	5735.8	5701.5	5777.0	6251.0	6446.8	6536.1
50°	9884.8	9819.6	9730.3	9252.9	7851.5	6790.2	6755.9	6762.8	7487.5	7762.2	7982.0
52.5°	10753.8	10836.2	10540.8	10248.9	9572.3	8160.6	8122.9	7988.9	8888.8	9266.6	9527.6
55°	11825.4	11670.8	11337.7	11488.8	11217.4	9641.0	9572.3	9414.3	10485.9	10643.9	10918.6
57.5°	12062.4	11945.6	12289.0	12824.8	13085.9	11378.9	11351.4	11066.3	11828.8	11684.6	12460.8
60°	12653.1	12684.0	13161.4	14226.2	14679.5	13384.7	13250.7	12749.3	13130.5	13158.0	13985.7
62.5°	13261.0	13188.9	14257.1	15280.6	15977.8	15284.0	15239.4	14243.3	14676.1	14325.8	15421.4
65°	12814.5	12924.5	14452.9	16166.7	17660.8	17142.2	17104.4	15682.4	15919.4	15483.2	16005.3
67.5°	11227.8	11004.5	13144.3	15761.4	18526.3	19089.6	19048.4	17252.1	16620.1	15476.4	14792.9
70°	8229.3	8037.0	9781.8	13346.9	17286.4	20085.6	20250.5	18344.3	16335.0	14033.8	11413.2
72.5°	4032.2	4035.7	5481.6	9050.2	13676.6	18306.5	18388.9	16819.3	14033.8	10345.1	6463.9
75°	1191.8	1205.5	2029.9	4437.5	8840.7	13903.3	13996.1	12766.5	9726.8	5344.3	2205.0
77.5°	436.2	436.2	673.2	1665.8	4410.0	8775.4	8768.6	7837.8	4925.2	1810.0	515.2
80°	226.7	237.0	350.3	680.1	1909.6	4571.5	4743.2	3836.5	1871.9	762.5	151.1
82.5°	92.7	103.0	192.3	350.3	917.0	1604.0	1755.1	1504.4	814.0	532.4	68.7
85°	27.5	30.9	92.7	195.8	360.6	401.8	446.5	504.9	511.8	412.2	30.9
87.5°	3.4	3.4	37.8	65.3	79.0	85.9	99.6	99.6	261.0	288.5	17.2
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°	2342.4	2342.4	2342.4	2342.4	2342.4	2342.4	2342.4	2342.4	2342.4	2342.4	2342.4
2.5°	2359.6	2342.4	2314.9	2253.1	2239.4	2194.7	2191.3	2150.1	2163.8	2136.3	2126.0
5°	2342.4	2304.6	2229.1	2181.0	2132.9	2102.0	2081.4	2064.2	2060.8	2047.0	2040.2
7.5°	2373.3	2321.8	2205.0	2129.5	2047.0	2019.6	1974.9	1971.5	1947.4	1923.4	1923.4
10°	2476.4	2383.6	2256.5	2129.5	2023.0	1933.7	1830.6	1755.1	1727.6	1665.8	1672.7
12.5°	2558.8	2476.4	2290.9	2160.4	1998.9	1796.3	1569.6	1394.5	1312.0	1233.0	1263.9
15°	2675.6	2555.4	2356.1	2167.2	1906.2	1555.9	1184.9	989.2	913.6	896.4	893.0
17.5°	2802.6	2675.6	2438.6	2150.1	1717.3	1202.1	872.4	759.0	772.8	793.4	790.0
20°	2943.5	2788.9	2500.4	2091.7	1418.5	872.4	714.4	711.0	731.6	762.5	769.4
22.5°	3091.2	2957.2	2576.0	1916.5	1057.9	700.7	686.9	686.9	700.7	738.4	731.6
25°	3256.0	3077.4	2613.7	1645.2	759.0	645.7	652.6	666.3	673.2	704.1	707.5
27.5°	3383.1	3211.4	2624.0	1318.9	618.2	597.6	614.8	632.0	642.3	666.3	676.6
30°	3499.9	3379.7	2569.1	982.3	566.7	556.4	563.3	587.3	607.9	628.5	628.5
32.5°	3647.6	3475.8	2442.0	697.2	535.8	518.6	515.2	525.5	549.5	573.6	573.6
35°	3798.7	3637.3	2239.4	559.8	508.3	484.3	470.5	460.2	470.5	487.7	501.5
37.5°	4018.5	3881.1	1985.2	515.2	487.7	453.4	425.9	401.8	384.7	381.2	391.5
40°	4331.0	4155.9	1658.9	484.3	463.7	422.5	381.2	340.0	302.2	278.2	281.6
42.5°	4805.0	4561.2	1305.2	467.1	446.5	388.1	329.7	271.3	223.2	199.2	199.2
45°	5481.6	5097.0	958.3	449.9	425.9	346.9	271.3	202.6	154.6	140.8	144.3
47.5°	6501.7	5742.7	686.9	422.5	398.4	302.2	212.9	144.3	113.3	106.5	109.9
50°	7834.4	6508.6	535.8	391.5	364.1	254.2	158.0	106.5	89.3	85.9	89.3
52.5°	9232.2	7281.4	470.5	364.1	312.5	202.6	116.8	85.9	75.6	72.1	75.6
55°	10427.5	7779.4	408.7	322.9	250.7	151.1	92.7	75.6	65.3	55.0	55.0
57.5°	11636.5	8030.1	322.9	267.9	185.5	113.3	79.0	65.3	55.0	44.6	41.2
60°	12618.8	8208.7	230.1	199.2	130.5	89.3	68.7	58.4	44.6	34.3	30.9
62.5°	13264.5	7697.0	168.3	151.1	96.2	75.6	58.4	48.1	34.3	24.0	24.0
65°	12945.1	6989.4	130.5	106.5	72.1	58.4	48.1	34.3	24.0	13.7	10.3
67.5°	11615.9	5694.6	106.5	79.0	55.0	44.6	37.8	27.5	13.7	3.4	3.4
70°	8665.5	4173.1	85.9	58.4	44.6	34.3	27.5	17.2	6.9	3.4	0.0
72.5°	4739.8	2284.0	68.7	48.1	34.3	27.5	20.6	13.7	6.9	0.0	0.0
75°	1566.2	607.9	51.5	34.3	20.6	17.2	13.7	10.3	3.4	0.0	0.0
77.5°	377.8	158.0	41.2	30.9	17.2	10.3	6.9	3.4	3.4	0.0	0.0
80°	116.8	65.3	30.9	20.6	13.7	10.3	3.4	0.0	0.0	0.0	0.0
82.5°	48.1	30.9	13.7	13.7	10.3	3.4	0.0	0.0	0.0	0.0	0.0
85°	24.0	17.2	10.3	6.9	6.9	3.4	0.0	0.0	0.0	0.0	0.0
87.5°	17.2	6.9	3.4	3.4	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)