

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: P484580

Luminaire Tested: **IFLD-L-SA7D-830-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484580  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-830-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

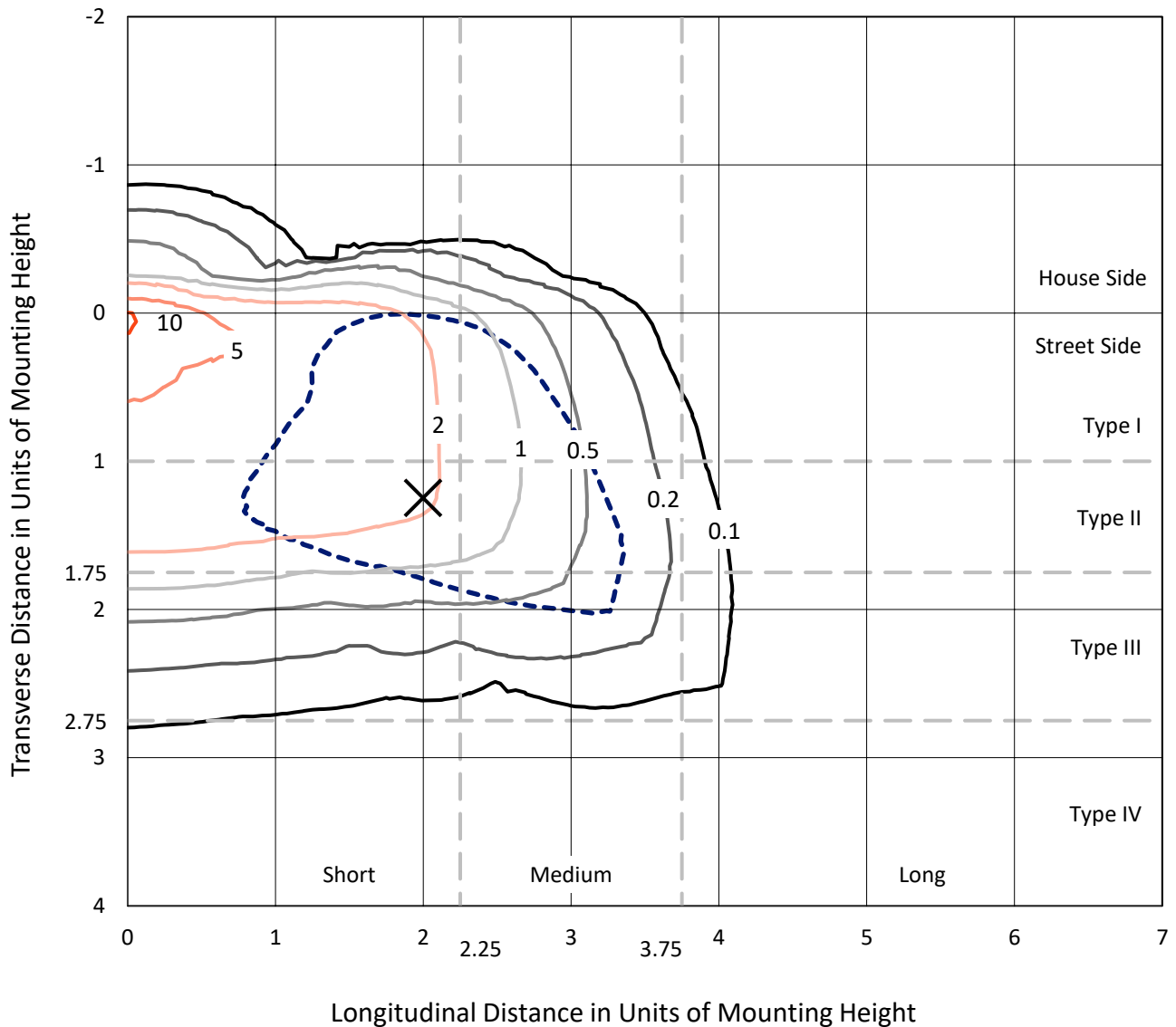
Lumens per Lamp: N/A  
Luminaire Lumens: 32414.7 lumens  
Efficiency: N/A  
Efficacy: 76.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 422.6  
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

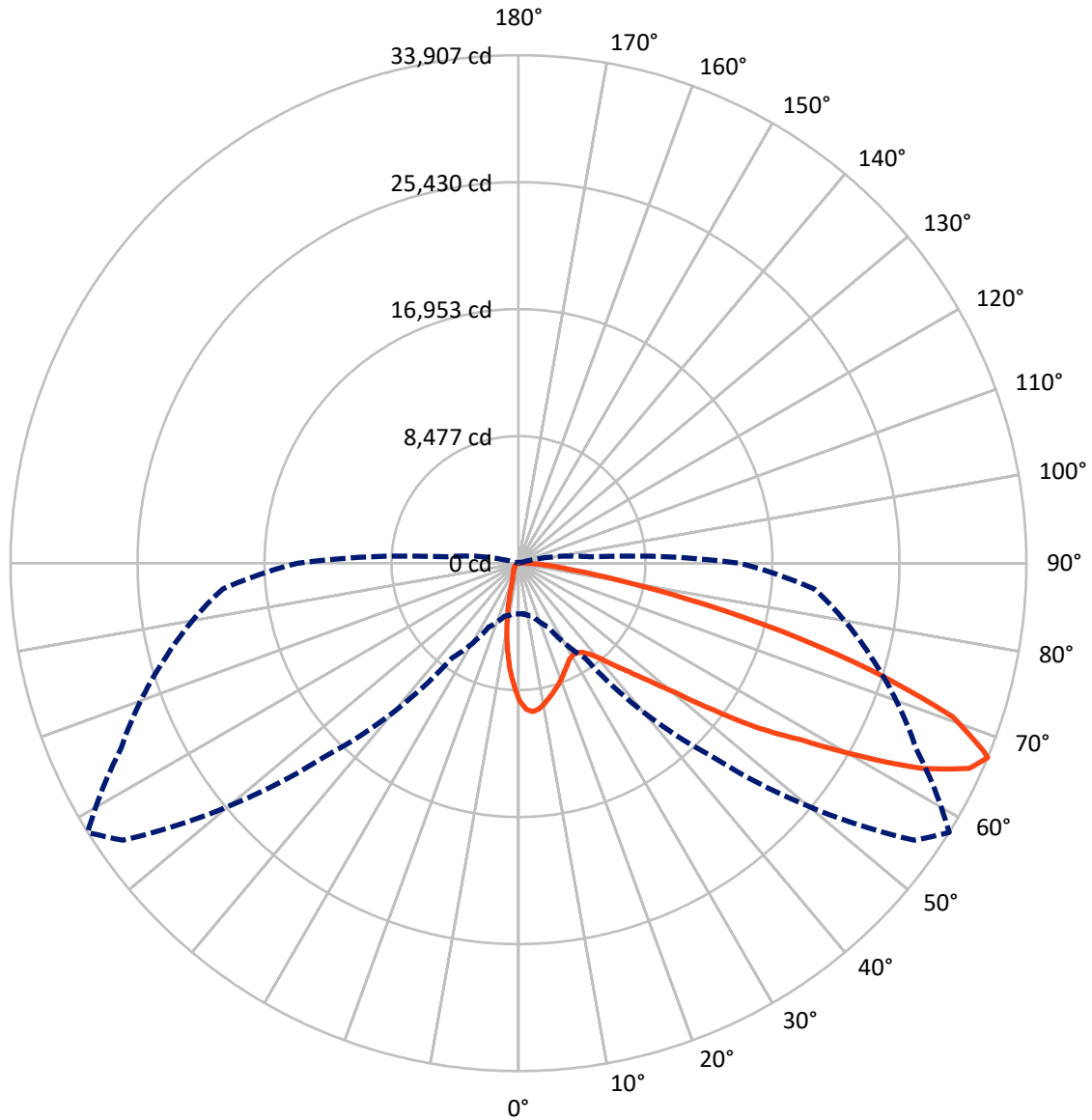
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2679.3	0.0	2679.3
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	29735.4	0.0	29735.4
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	32414.7	0.0	32414.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	728.7	2.2
10°-20°	1511.4	4.7
20°-30°	2005.3	6.2
30°-40°	2778.7	8.6
40°-50°	4534.0	14.0
50°-60°	7969.4	24.6
60°-70°	8826.7	27.2
70°-80°	3657.8	11.3
80°-90°	402.7	1.2
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°	32414.7	100.0
0°-180°	32414.7	100.0

**Coefficient of Utilization**



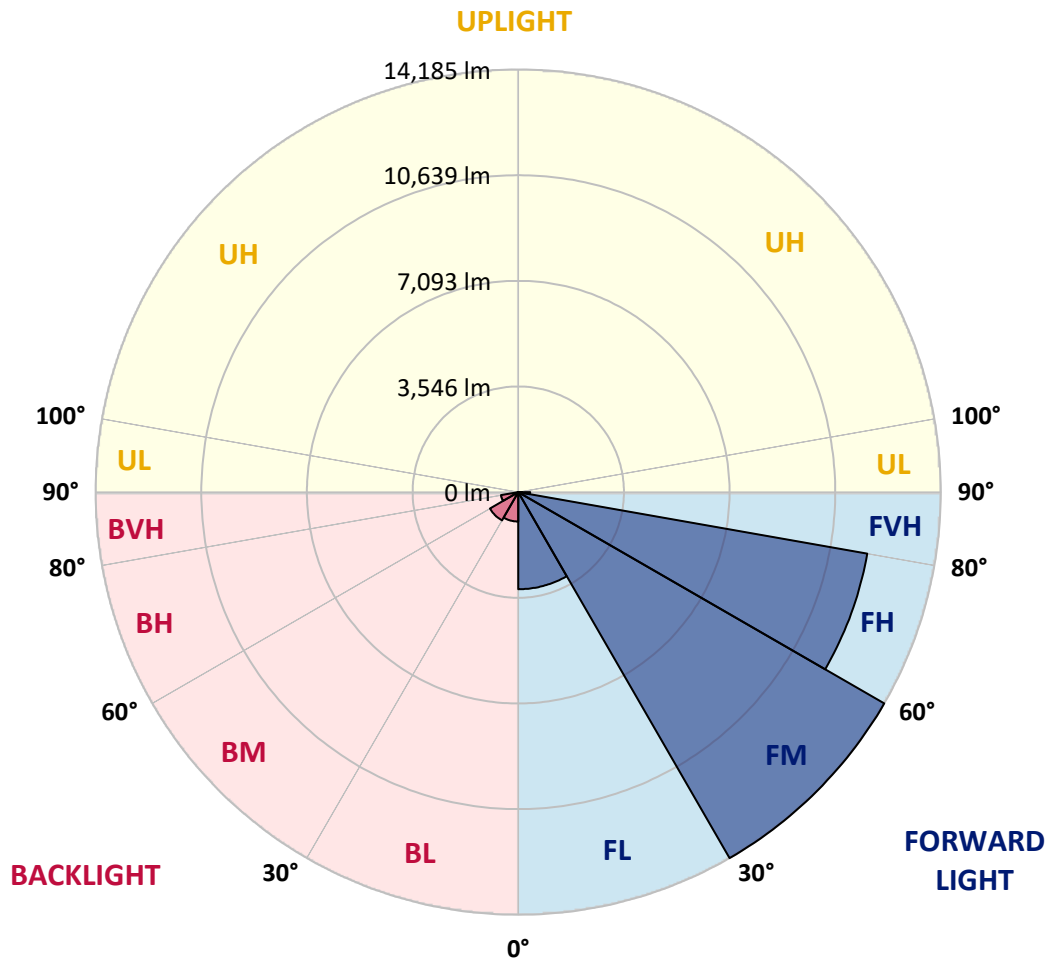
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3258.6	10.1			
FM	(30°-60°)	14185.3	43.8			
FH	(60°-80°)	11895.5	36.7			G4/12000
FVH	(80°-90°)	396.0	1.2			G3/500
BL	(0°-30°)	986.8	3.0	B2/1000		
BM	(30°-60°)	1096.8	3.4	B2/2500		
BH	(60°-80°)	589.1	1.8	B2/1000		G2/1000
BVH	(80°-90°)	6.6	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9183.5	9183.5	9183.5	9183.5	9183.5	9183.5	9183.5	9183.5	9183.5	9183.5	9183.5
2.5°	9992.6	10027.0	10057.1	10001.2	10048.5	9979.7	9803.2	9764.5	9734.4	9471.9	9321.2
5°	9988.3	9949.5	9979.7	10005.5	9940.9	9992.6	9949.5	9953.8	9837.6	9601.0	9179.2
7.5°	9321.2	9304.0	9321.2	9446.0	9588.0	9699.9	9764.5	9829.0	9751.6	9398.7	8989.9
10°	8421.8	8507.9	8555.2	8779.0	8998.5	9205.0	9407.3	9527.8	9506.3	9364.3	8783.3
12.5°	7793.5	7767.7	7939.8	8086.1	8305.6	8723.1	9075.9	9187.8	9316.9	9119.0	8512.2
15°	7212.5	7143.7	7247.0	7500.9	7875.3	8206.6	8701.5	8869.4	9032.9	9084.5	8365.9
17.5°	6657.4	6691.8	6799.4	7027.5	7380.4	7845.2	8309.9	8550.9	8942.5	8873.7	8146.4
20°	6390.6	6463.8	6502.5	6618.7	6864.0	7328.7	8021.6	8215.2	8632.7	8869.4	7931.2
22.5°	6403.5	6403.5	6313.1	6382.0	6605.8	6967.3	7630.0	7845.2	8507.9	8645.6	7737.6
25°	6541.2	6455.1	6459.4	6377.7	6472.4	6670.3	7277.1	7539.6	8254.0	8667.1	7634.3
27.5°	6644.5	6627.3	6601.5	6579.9	6459.4	6489.6	7044.7	7259.9	8155.0	8641.3	7475.1
30°	7018.9	6941.4	6915.6	6868.3	6709.0	6562.7	6859.7	7130.8	8077.5	8701.5	7384.7
32.5°	7333.0	7346.0	7367.5	7229.8	7092.1	6730.6	6911.3	7126.5	8021.6	8839.2	7475.1
35°	7729.0	7784.9	7793.5	7750.5	7604.2	7247.0	7126.5	7311.5	8116.3	9084.5	7483.7
37.5°	8331.4	8271.2	8434.7	8451.9	8348.7	7875.3	7625.7	7698.8	8396.0	9476.2	7810.7
40°	8723.1	8796.2	9101.8	9291.1	9114.7	8684.3	8348.7	8335.7	8800.5	10091.5	8215.2
42.5°	9157.7	9321.2	9656.9	10065.7	10044.2	9644.0	9304.0	9248.1	9519.2	10982.4	8856.5
45°	9751.6	9897.9	10367.0	10982.4	11318.0	10978.1	10465.9	10354.1	10392.8	12195.9	9949.5
47.5°	10737.1	10698.3	11374.0	11980.8	12531.6	12269.1	12049.6	11722.5	11692.4	13624.7	11460.0
50°	11851.6	11843.0	12445.5	13134.1	13771.0	14283.1	13917.3	13560.1	13568.7	15565.5	13237.4
52.5°	12910.3	13078.1	13727.9	14412.2	15505.3	16056.1	16409.0	16267.0	15582.7	17299.8	15139.5
55°	13469.7	13616.1	14261.6	15440.7	17166.4	18582.2	19537.6	19417.1	18095.9	19253.5	17015.8
57.5°	12940.4	13039.4	13913.0	15457.9	18328.3	21487.0	22403.7	22253.0	20695.2	20746.8	19283.7
60°	10724.1	10879.1	12178.7	13990.5	17876.4	23724.8	26349.9	26121.8	23062.1	22636.0	20742.5
62.5°	7427.7	7531.0	8598.3	10853.3	15733.3	24503.7	30076.7	30201.5	25558.1	24107.8	21177.2
65°	4811.2	4802.6	5413.7	6941.4	11150.2	22145.5	32280.0	33054.6	27968.0	24331.6	21043.8
67°	3399.7	3386.8	3675.1	4708.0	7720.4	18246.5	32241.3	33906.7	29276.2	24396.1	19808.7
67.5°	3137.2	3124.3	3399.7	4329.3	6967.3	16968.4	31759.3	33467.8	29736.7	24305.8	19266.5
70°	2435.7	2401.3	2504.6	2982.3	4058.1	10973.7	27180.5	30743.7	28781.3	22050.8	15384.8
72.5°	1760.1	1798.8	1962.4	2448.7	3184.5	5904.3	20716.7	24860.9	24039.0	16619.8	9777.4
75°	1226.5	1260.9	1523.4	1996.8	2922.0	3580.5	14007.7	18031.4	16744.6	9174.9	4165.7
77.5°	641.2	684.2	972.6	1596.6	2655.2	2771.4	8370.2	11434.2	8873.7	3266.3	1149.0
80°	296.9	318.5	486.3	1131.8	2220.6	2435.7	4880.1	6360.5	3550.3	731.6	395.9
82.5°	129.1	142.0	223.8	649.8	1575.1	2130.2	3021.0	3335.2	1286.7	236.7	245.3
85°	25.8	30.1	86.1	344.3	761.7	1291.0	2121.6	1979.6	645.5	116.2	193.7
87.5°	0.0	0.0	21.5	99.0	206.6	383.0	899.4	899.4	198.0	60.2	73.2
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°	9183.5	9183.5	9183.5	9183.5	9183.5	9183.5	9183.5	9183.5	9183.5	9183.5	9183.5
2.5°	9187.8	9032.9	8692.9	8378.8	8155.0	7901.1	7565.4	7414.8	7358.9	7281.4	7165.2
5°	8946.8	8757.5	8176.5	7591.3	6950.0	6463.8	5947.3	5646.1	5418.0	5276.0	5228.7
7.5°	8606.9	8219.6	7436.3	6498.2	5667.6	4944.6	4161.4	3632.1	3292.1	3154.4	3025.3
10°	8335.7	7832.2	6640.2	5474.0	4368.0	3309.3	2427.1	1962.4	1609.5	1476.1	1458.9
12.5°	7982.9	7380.4	5895.7	4428.2	3038.2	1971.0	1342.7	1166.2	1067.3	1050.0	1037.1
15°	7690.2	6971.6	5189.9	3429.8	1966.7	1230.8	1045.7	1002.7	976.9	968.3	972.6
17.5°	7492.3	6532.6	4467.0	2496.0	1295.3	1007.0	964.0	938.1	925.2	920.9	908.0
20°	7100.7	6162.5	3752.6	1747.2	1011.3	929.5	895.1	873.6	860.7	856.4	852.1
22.5°	6876.9	5693.4	3038.2	1217.9	899.4	843.5	817.7	800.4	778.9	766.0	761.7
25°	6653.1	5349.2	2401.3	946.8	817.7	778.9	740.2	718.7	684.2	667.0	662.7
27.5°	6390.6	5009.2	1850.5	822.0	735.9	697.2	658.4	624.0	581.0	563.7	555.1
30°	6240.0	4677.8	1394.3	735.9	675.6	624.0	576.7	533.6	486.3	456.2	447.6
32.5°	6162.5	4376.6	1045.7	671.3	611.1	555.1	494.9	443.3	400.2	374.4	370.1
35°	6067.8	4084.0	822.0	611.1	550.8	490.6	430.3	378.7	335.7	314.2	305.5
37.5°	6166.8	3911.8	684.2	563.7	503.5	434.6	370.1	318.5	284.0	262.5	258.2
40°	6437.9	3769.8	593.9	520.7	456.2	383.0	322.8	271.1	241.0	223.8	215.2
42.5°	6855.4	3769.8	537.9	477.7	413.1	335.7	275.4	236.7	206.6	189.4	185.0
45°	7612.8	3886.0	490.6	434.6	361.5	288.3	236.7	198.0	167.8	150.6	146.3
47.5°	8675.7	4152.8	451.9	395.9	322.8	253.9	206.6	167.8	137.7	120.5	116.2
50°	10104.5	4759.6	413.1	348.6	288.3	219.5	172.1	133.4	107.6	90.4	86.1
52.5°	11886.1	5620.3	374.4	322.8	245.3	185.0	137.7	107.6	81.8	68.9	64.6
55°	13771.0	6674.6	327.1	288.3	210.9	154.9	111.9	81.8	60.2	51.6	47.3
57.5°	15668.8	7488.0	288.3	249.6	172.1	124.8	90.4	64.6	43.0	34.4	30.1
60°	16675.8	7565.4	249.6	206.6	137.7	99.0	68.9	47.3	30.1	21.5	17.2
62.5°	16830.7	6876.9	215.2	167.8	111.9	77.5	47.3	34.4	17.2	8.6	8.6
65°	16034.6	5732.2	185.0	133.4	86.1	55.9	34.4	21.5	8.6	4.3	0.0
67°	14743.6	4802.6	159.2	111.9	68.9	43.0	25.8	12.9	4.3	0.0	0.0
67.5°	14244.4	4544.4	150.6	103.3	64.6	38.7	21.5	12.9	4.3	0.0	0.0
70°	11055.5	3244.8	111.9	73.2	47.3	30.1	17.2	8.6	0.0	0.0	0.0
72.5°	6773.6	1897.8	86.1	51.6	34.4	21.5	12.9	4.3	0.0	0.0	0.0
75°	2840.3	654.1	73.2	38.7	25.8	12.9	8.6	4.3	0.0	0.0	0.0
77.5°	740.2	245.3	51.6	25.8	17.2	12.9	8.6	4.3	0.0	0.0	0.0
80°	301.2	111.9	34.4	17.2	17.2	12.9	8.6	4.3	0.0	0.0	0.0
82.5°	198.0	51.6	21.5	17.2	12.9	8.6	4.3	0.0	0.0	0.0	0.0
85°	150.6	30.1	12.9	12.9	8.6	4.3	0.0	0.0	0.0	0.0	0.0
87.5°	64.6	17.2	12.9	8.6	8.6	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)