

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: P484530

Luminaire Tested: **IFLD-S-SA6C-827-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484530  
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-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (96) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

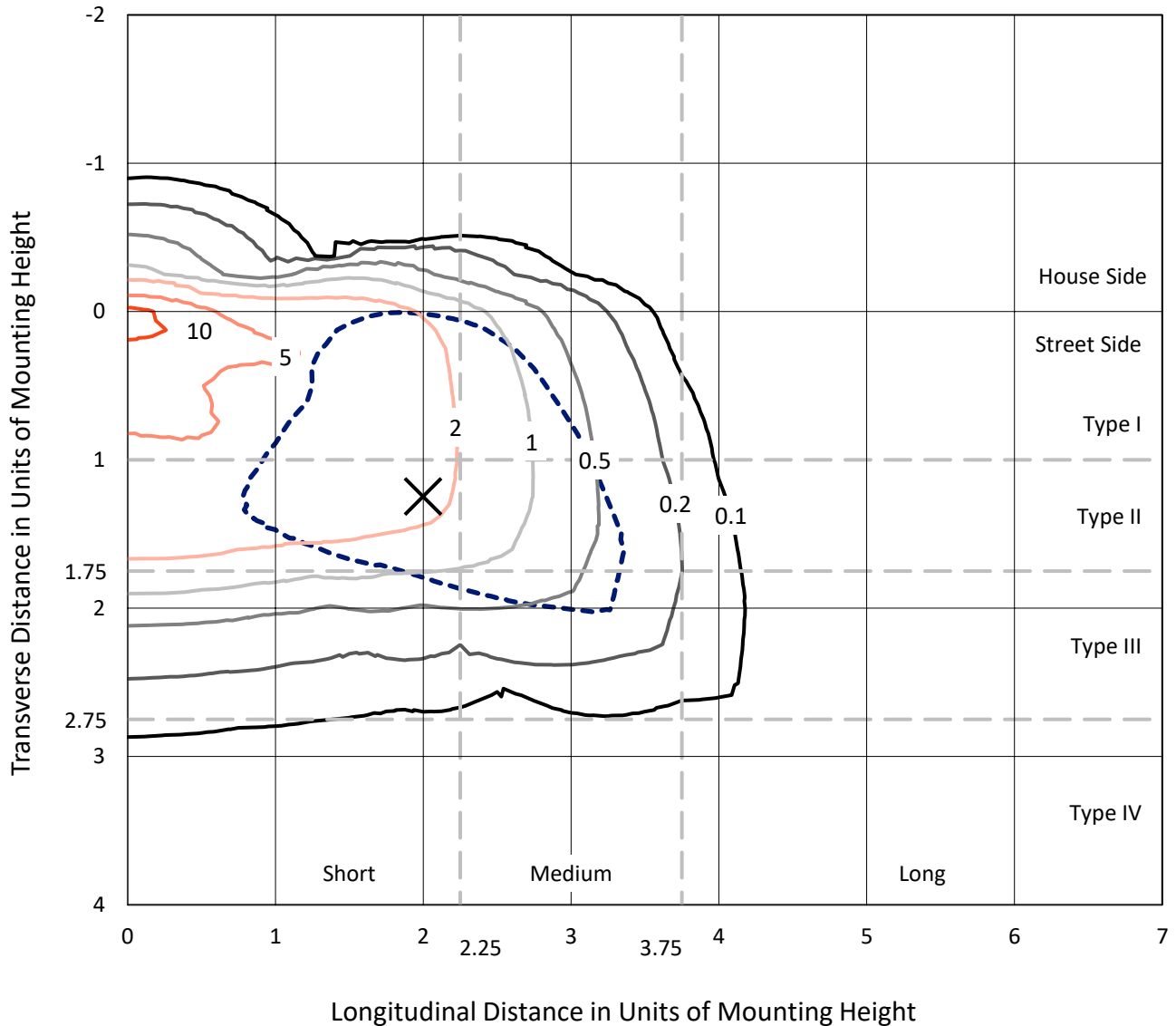
Lumens per Lamp: N/A  
Luminaire Lumens: 25544.4 lumens  
Efficiency: N/A  
Efficacy: 79.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 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

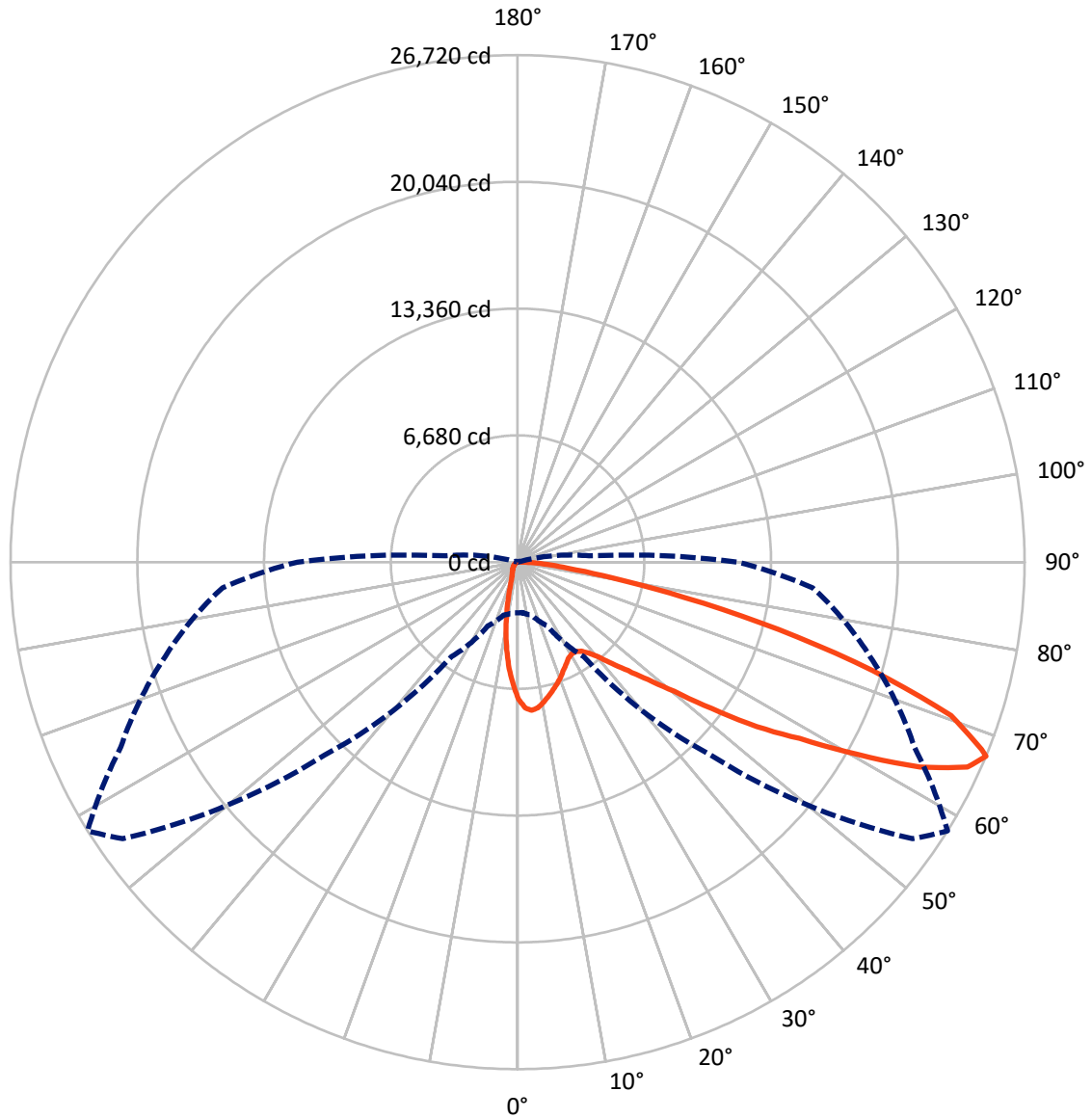
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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	2111.4	0.0	2111.4
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	23433.0	0.0	23433.0
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	25544.4	0.0	25544.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	574.2	2.2
10°-20°	1191.1	4.7
20°-30°	1580.3	6.2
30°-40°	2189.8	8.6
40°-50°	3573.0	14.0
50°-60°	6280.3	24.6
60°-70°	6955.9	27.2
70°-80°	2882.5	11.3
80°-90°	317.3	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°	25544.4	100.0
0°-180°	25544.4	100.0



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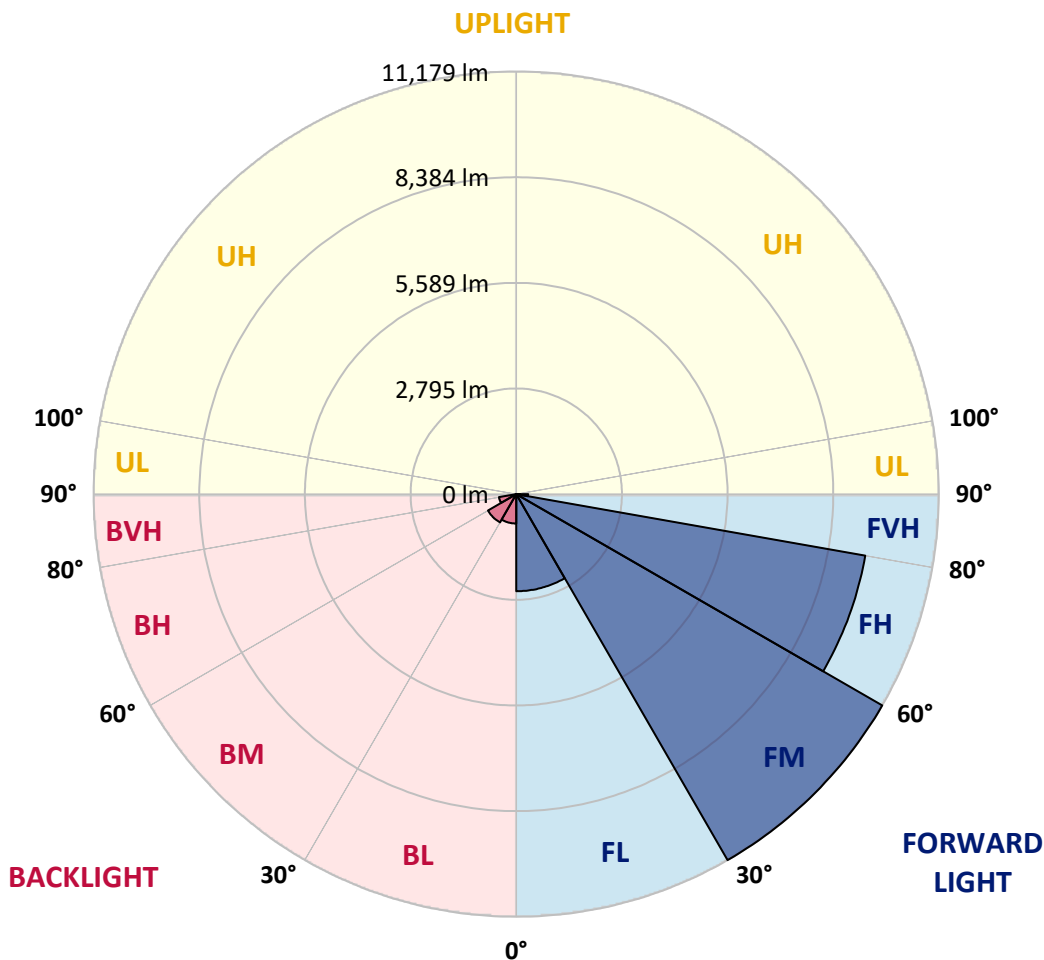
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2567.9	10.1			
FM (30°-60°)	11178.8	43.8			
FH (60°-80°)	9374.2	36.7			G4/12000
FVH (80°-90°)	312.1	1.2			G3/500
BL (0°-30°)	777.6	3.0	B2/1000		
BM (30°-60°)	864.3	3.4	B1/1000		
BH (60°-80°)	464.2	1.8	B1/500		G1/500
BVH (80°-90°)	5.2	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7237.1	7237.1	7237.1	7237.1	7237.1	7237.1	7237.1	7237.1	7237.1	7237.1	7237.1
2.5°	7874.7	7901.8	7925.5	7881.4	7918.7	7864.5	7725.4	7694.9	7671.2	7464.3	7345.6
5°	7871.3	7840.7	7864.5	7884.8	7834.0	7874.7	7840.7	7844.1	7752.6	7566.0	7233.7
7.5°	7345.6	7332.0	7345.6	7444.0	7555.9	7644.0	7694.9	7745.8	7684.7	7406.6	7084.5
10°	6636.8	6704.6	6742.0	6918.3	7091.3	7254.0	7413.4	7508.4	7491.4	7379.5	6921.7
12.5°	6141.7	6121.3	6257.0	6372.3	6545.3	6874.2	7152.3	7240.5	7342.2	7186.2	6708.0
15°	5683.9	5629.6	5711.0	5911.1	6206.1	6467.3	6857.3	6989.5	7118.4	7159.1	6592.7
17.5°	5246.4	5273.5	5358.3	5538.0	5816.1	6182.4	6548.6	6738.6	7047.2	6992.9	6419.8
20°	5036.1	5093.8	5124.3	5215.9	5409.2	5775.4	6321.4	6474.0	6803.0	6989.5	6250.2
22.5°	5046.3	5046.3	4975.1	5029.3	5205.7	5490.6	6012.8	6182.4	6704.6	6813.2	6097.6
25°	5154.8	5087.0	5090.4	5025.9	5100.5	5256.6	5734.7	5941.6	6504.6	6830.1	6016.2
27.5°	5236.2	5222.6	5202.3	5185.3	5090.4	5114.1	5551.6	5721.2	6426.6	6809.8	5890.7
30°	5531.2	5470.2	5449.9	5412.6	5287.1	5171.8	5405.8	5619.4	6365.5	6857.3	5819.5
32.5°	5778.8	5789.0	5805.9	5697.4	5588.9	5304.0	5446.5	5616.0	6321.4	6965.8	5890.7
35°	6090.8	6134.9	6141.7	6107.8	5992.5	5711.0	5616.0	5761.9	6396.0	7159.1	5897.5
37.5°	6565.6	6518.1	6647.0	6660.6	6579.2	6206.1	6009.4	6067.1	6616.5	7467.7	6155.3
40°	6874.2	6931.9	7172.6	7321.9	7182.8	6843.7	6579.2	6569.0	6935.3	7952.7	6474.0
42.5°	7216.7	7345.6	7610.1	7932.3	7915.3	7600.0	7332.0	7288.0	7501.6	8654.7	6979.3
45°	7684.7	7800.0	8169.7	8654.7	8919.2	8651.3	8247.7	8159.5	8190.0	9611.0	7840.7
47.5°	8461.4	8430.8	8963.3	9441.4	9875.5	9668.7	9495.7	9238.0	9214.2	10736.9	9031.1
50°	9339.7	9332.9	9807.7	10350.3	10852.2	11255.8	10967.5	10686.1	10692.8	12266.4	10431.7
52.5°	10174.0	10306.2	10818.3	11357.5	12218.9	12653.0	12931.1	12819.2	12280.0	13633.1	11930.7
55°	10614.8	10730.1	11238.8	12168.1	13528.0	14643.7	15396.6	15301.6	14260.5	15172.8	13409.3
57.5°	10197.7	10275.7	10964.1	12181.6	14443.6	16932.9	17655.2	17536.5	16308.9	16349.6	15196.5
60°	8451.2	8573.3	9597.4	11025.2	14087.6	18696.4	20765.1	20585.3	18174.1	17838.4	16346.2
62.5°	5853.4	5934.8	6775.9	8552.9	12398.7	19310.2	23702.0	23800.3	20141.1	18998.2	16688.7
65°	3791.5	3784.7	4266.3	5470.2	8786.9	17451.7	25438.3	26048.8	22040.2	19174.5	16583.6
67°	2679.1	2669.0	2896.2	3710.1	6084.0	14379.2	25407.8	26720.2	23071.2	19225.4	15610.3
67.5°	2472.3	2462.1	2679.1	3411.7	5490.6	13372.0	25028.0	26374.3	23434.0	19154.2	15183.0
70°	1919.5	1892.4	1973.7	2350.2	3198.0	8647.9	21419.6	24227.6	22681.2	17377.1	12124.0
72.5°	1387.1	1417.6	1546.4	1929.7	2509.6	4652.9	16325.8	19591.7	18943.9	13097.3	7705.1
75°	966.5	993.7	1200.5	1573.6	2302.7	2821.6	11038.8	14209.6	13195.6	7230.3	3282.8
77.5°	505.3	539.2	766.4	1258.2	2092.4	2184.0	6596.1	9010.7	6992.9	2574.0	905.5
80°	234.0	251.0	383.2	891.9	1749.9	1919.5	3845.8	5012.4	2797.8	576.5	312.0
82.5°	101.7	111.9	176.3	512.1	1241.2	1678.7	2380.7	2628.3	1014.0	186.5	193.3
85°	20.3	23.7	67.8	271.3	600.3	1017.4	1671.9	1560.0	508.7	91.6	152.6
87.5°	0.0	0.0	17.0	78.0	162.8	301.8	708.8	708.8	156.0	47.5	57.7
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°	7237.1	7237.1	7237.1	7237.1	7237.1	7237.1	7237.1	7237.1	7237.1	7237.1	7237.1
2.5°	7240.5	7118.4	6850.5	6602.9	6426.6	6226.5	5961.9	5843.2	5799.2	5738.1	5646.6
5°	7050.6	6901.3	6443.5	5982.3	5477.0	5093.8	4686.8	4449.4	4269.7	4157.8	4120.5
7.5°	6782.6	6477.4	5860.2	5120.9	4466.4	3896.6	3279.4	2862.3	2594.4	2485.8	2384.1
10°	6569.0	6172.2	5232.8	4313.8	3442.2	2607.9	1912.7	1546.4	1268.4	1163.2	1149.7
12.5°	6290.9	5816.1	4646.1	3489.7	2394.3	1553.2	1058.1	919.0	841.0	827.5	817.3
15°	6060.3	5493.9	4089.9	2702.9	1549.8	969.9	824.1	790.2	769.8	763.0	766.4
17.5°	5904.3	5148.0	3520.2	1967.0	1020.8	793.6	759.7	739.3	729.1	725.7	715.6
20°	5595.7	4856.4	2957.2	1376.9	797.0	732.5	705.4	688.4	678.3	674.9	671.5
22.5°	5419.3	4486.7	2394.3	959.7	708.8	664.7	644.4	630.8	613.8	603.7	600.3
25°	5243.0	4215.4	1892.4	746.1	644.4	613.8	583.3	566.4	539.2	525.7	522.3
27.5°	5036.1	3947.5	1458.3	647.7	579.9	549.4	518.9	491.7	457.8	444.3	437.5
30°	4917.4	3686.4	1098.8	579.9	532.4	491.7	454.4	420.5	383.2	359.5	352.7
32.5°	4856.4	3449.0	824.1	529.0	481.6	437.5	390.0	349.3	315.4	295.0	291.7
35°	4781.8	3218.4	647.7	481.6	434.1	386.6	339.1	298.4	264.5	247.6	240.8
37.5°	4859.8	3082.7	539.2	444.3	396.8	342.5	291.7	251.0	223.8	206.9	203.5
40°	5073.4	2970.8	468.0	410.4	359.5	301.8	254.3	213.7	189.9	176.3	169.6
42.5°	5402.4	2970.8	423.9	376.4	325.6	264.5	217.0	186.5	162.8	149.2	145.8
45°	5999.3	3062.4	386.6	342.5	284.9	227.2	186.5	156.0	132.3	118.7	115.3
47.5°	6836.9	3272.6	356.1	312.0	254.3	200.1	162.8	132.3	108.5	95.0	91.6
50°	7962.8	3750.8	325.6	274.7	227.2	173.0	135.7	105.1	84.8	71.2	67.8
52.5°	9366.8	4429.1	295.0	254.3	193.3	145.8	108.5	84.8	64.4	54.3	50.9
55°	10852.2	5259.9	257.7	227.2	166.2	122.1	88.2	64.4	47.5	40.7	37.3
57.5°	12347.8	5900.9	227.2	196.7	135.7	98.3	71.2	50.9	33.9	27.1	23.7
60°	13141.4	5961.9	196.7	162.8	108.5	78.0	54.3	37.3	23.7	17.0	13.6
62.5°	13263.5	5419.3	169.6	132.3	88.2	61.0	37.3	27.1	13.6	6.8	6.8
65°	12636.1	4517.2	145.8	105.1	67.8	44.1	27.1	17.0	6.8	3.4	0.0
67°	11618.7	3784.7	125.5	88.2	54.3	33.9	20.3	10.2	3.4	0.0	0.0
67.5°	11225.3	3581.2	118.7	81.4	50.9	30.5	17.0	10.2	3.4	0.0	0.0
70°	8712.3	2557.1	88.2	57.7	37.3	23.7	13.6	6.8	0.0	0.0	0.0
72.5°	5337.9	1495.6	67.8	40.7	27.1	17.0	10.2	3.4	0.0	0.0	0.0
75°	2238.3	515.5	57.7	30.5	20.3	10.2	6.8	3.4	0.0	0.0	0.0
77.5°	583.3	193.3	40.7	20.3	13.6	10.2	6.8	3.4	0.0	0.0	0.0
80°	237.4	88.2	27.1	13.6	13.6	10.2	6.8	3.4	0.0	0.0	0.0
82.5°	156.0	40.7	17.0	13.6	10.2	6.8	3.4	0.0	0.0	0.0	0.0
85°	118.7	23.7	10.2	10.2	6.8	3.4	0.0	0.0	0.0	0.0	0.0
87.5°	50.9	13.6	10.2	6.8	6.8	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)