

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: P484920

Luminaire Tested: **IFLD-S-SA6C-827-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484920  
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-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (96) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

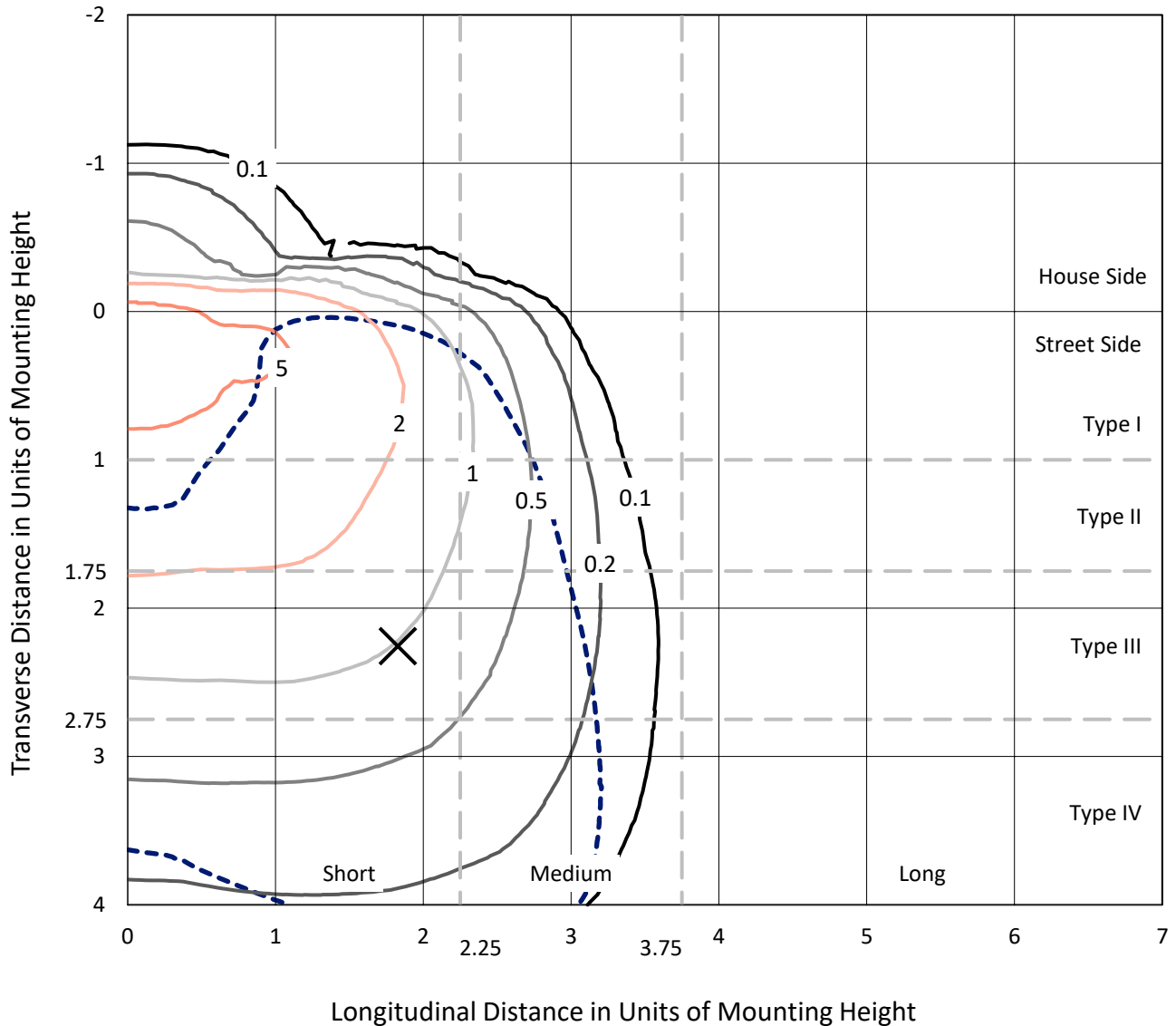
Lumens per Lamp: N/A  
Luminaire Lumens: 25233.5 lumens  
Efficiency: N/A  
Efficacy: 78.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 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

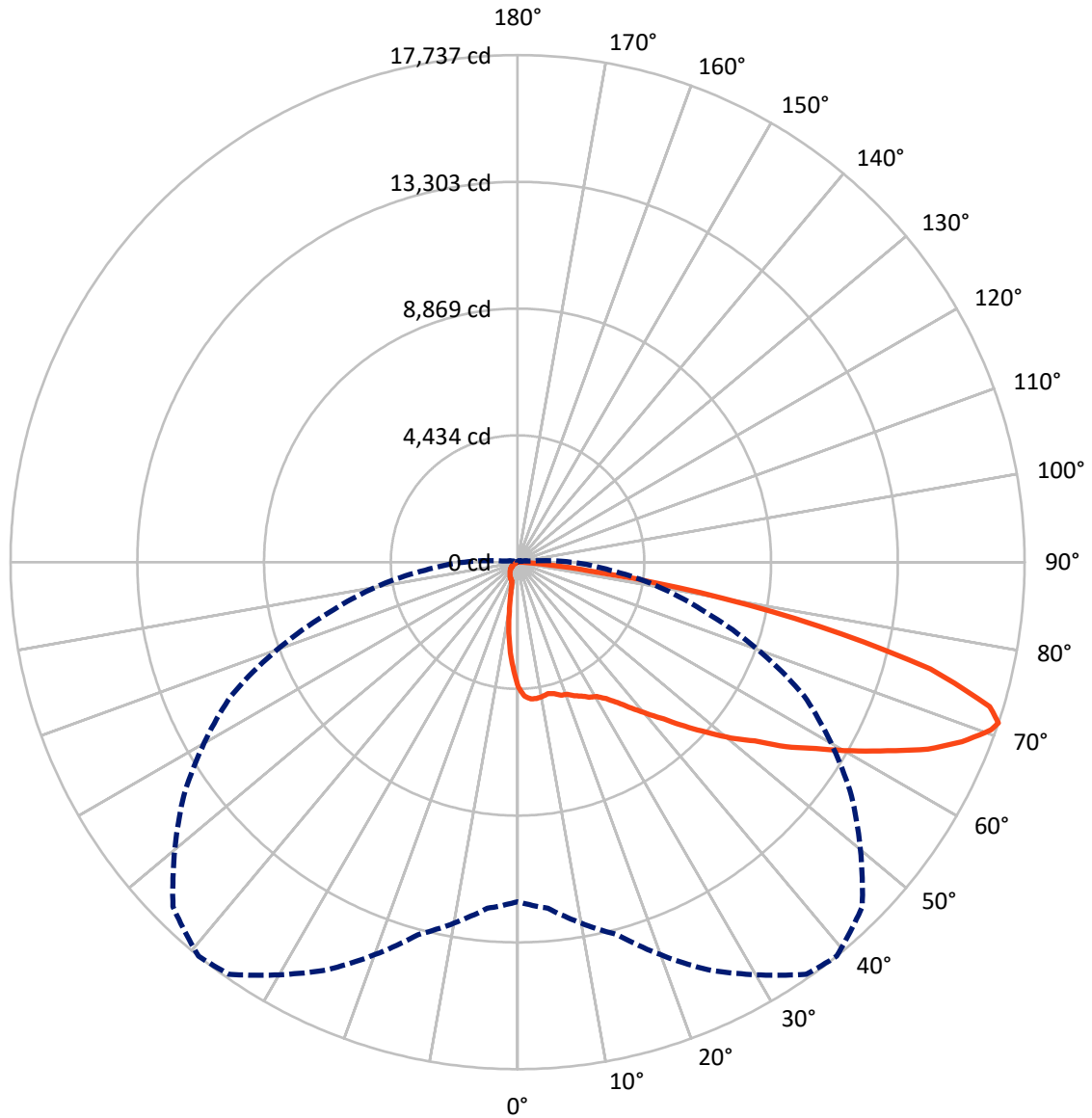
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1899.7	0.0	1899.7
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	23333.9	0.0	23333.9
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	25233.5	0.0	25233.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	367.2	1.5
10°-20°	903.8	3.6
20°-30°	1450.9	5.8
30°-40°	2221.0	8.8
40°-50°	3565.1	14.1
50°-60°	5236.6	20.8
60°-70°	6595.3	26.1
70°-80°	4401.6	17.4
80°-90°	491.9	1.9
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°	25233.5	100.0
0°-180°	25233.5	100.0

**Coefficient of Utilization**



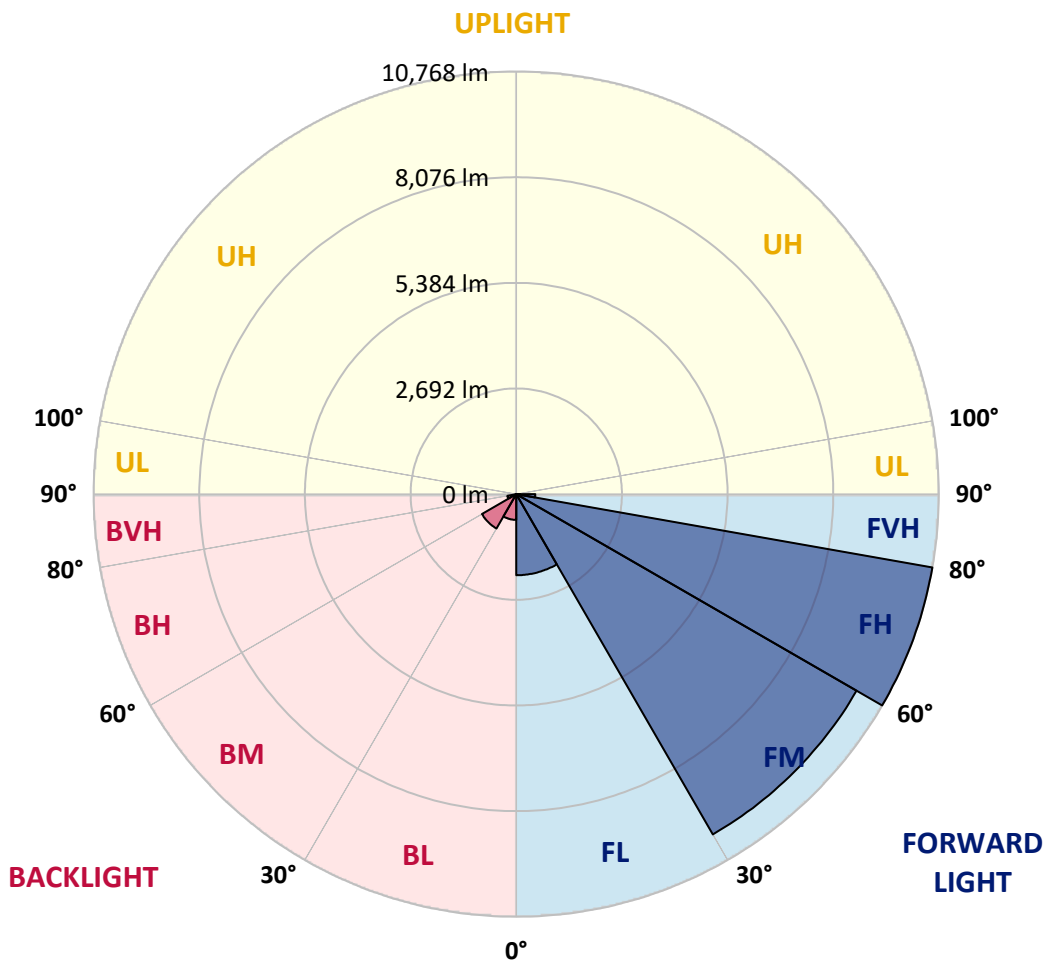
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2066.1	8.2			
FM (30°-60°)	10013.0	39.7			
FH (60°-80°)	10768.2	42.7			G4/12000
FVH (80°-90°)	486.5	1.9			G3/500
BL (0°-30°)	655.9	2.6	B2/1000		
BM (30°-60°)	1009.8	4.0	B2/2500		
BH (60°-80°)	228.6	0.9	B1/500		G1/500
BVH (80°-90°)	5.4	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°	39°	45°	55°	65°	75°	85°
0°	4392.1	4392.1	4392.1	4392.1	4392.1	4392.1	4392.1	4392.1	4392.1	4392.1	4392.1
2.5°	4733.0	4779.3	4733.0	4713.1	4693.2	4696.6	4643.6	4653.5	4590.6	4507.9	4441.7
5°	4881.9	4944.8	4895.1	4872.0	4868.7	4805.8	4779.3	4716.4	4640.3	4511.2	4431.8
7.5°	4868.7	4855.4	4878.6	4858.7	4815.7	4815.7	4785.9	4696.6	4620.4	4474.8	4339.1
10°	4769.4	4809.1	4789.2	4766.1	4776.0	4779.3	4723.0	4660.2	4637.0	4491.4	4269.6
12.5°	4759.4	4693.2	4766.1	4769.4	4726.3	4723.0	4716.4	4699.9	4627.1	4494.7	4286.1
15°	4726.3	4699.9	4772.7	4776.0	4785.9	4776.0	4785.9	4772.7	4699.9	4623.7	4359.0
17.5°	4752.8	4723.0	4825.6	4875.3	4852.1	4898.5	4881.9	4822.3	4759.4	4670.1	4428.5
20°	4759.4	4802.5	4915.0	4934.9	5007.7	4931.6	4928.2	4865.4	4825.6	4729.7	4471.5
22.5°	4881.9	4901.8	5040.8	5083.8	5087.1	5077.2	4994.4	4921.6	4905.1	4785.9	4481.4
25°	5067.3	5136.8	5199.6	5226.1	5236.0	5189.7	5103.7	5011.0	4971.3	4895.1	4584.0
27.5°	5394.9	5351.9	5408.2	5447.9	5335.3	5351.9	5242.7	5163.2	5107.0	5040.8	4703.2
30°	5686.2	5646.5	5649.8	5643.2	5547.2	5457.8	5428.0	5289.0	5219.5	5246.0	4888.5
32.5°	5947.6	5861.6	5934.4	5901.3	5722.6	5696.1	5672.9	5497.5	5510.8	5633.2	5166.5
35°	6189.3	6159.5	6219.1	6159.5	6040.3	6033.7	6010.5	5858.3	5931.1	6106.5	5643.2
37.5°	6411.0	6420.9	6493.8	6464.0	6473.9	6480.5	6467.3	6305.1	6513.6	6907.5	6199.2
40°	6616.2	6603.0	6781.7	6874.4	6894.2	6967.1	6967.1	6927.3	7248.4	7691.9	6970.4
42.5°	6834.7	6867.8	7099.4	7255.0	7443.7	7506.5	7592.6	7612.5	8108.9	8615.3	7758.1
45°	7192.1	7135.9	7430.4	7797.8	7963.3	8185.1	8317.4	8430.0	9029.0	9724.1	8545.8
47.5°	7645.6	7533.0	7791.2	8324.1	8708.0	8890.0	9128.3	9277.3	9863.1	10581.3	9290.5
50°	8148.6	8032.8	8158.6	8893.3	9340.2	9671.1	9975.6	10164.3	10872.6	11541.2	9833.3
52.5°	8717.9	8612.0	8631.9	9485.8	10144.4	10386.0	10786.5	11067.9	11772.8	12120.4	10025.3
55°	9323.6	9297.1	9234.2	10065.0	10849.4	11392.2	11633.8	11971.4	12696.3	12434.8	10233.8
57.5°	9932.6	9849.9	9939.2	10832.9	11981.4	12305.7	12640.0	12841.9	13209.3	12709.5	10154.4
60°	10505.2	10511.8	10637.6	11666.9	12944.5	13404.6	13705.7	13583.3	13735.5	12828.7	9972.3
62.5°	10988.4	10975.2	11292.9	12603.6	14218.8	14529.9	14754.9	14208.8	13980.5	12944.5	9654.6
65°	11422.0	11570.9	12070.7	13719.0	15416.9	15774.3	15638.6	14801.3	14218.8	12603.6	8761.0
67.5°	11749.7	11971.4	12838.6	14768.2	16515.7	16767.3	16578.6	15251.4	13937.4	11266.4	7135.9
70°	11941.6	12166.7	13388.0	15642.0	17392.8	17574.9	17131.3	14903.9	12295.8	8158.6	4451.6
71°	11882.1	12156.8	13493.9	15734.6	17601.3	17737.0	17048.6	14261.8	11057.9	6831.4	3246.9
72.5°	11342.6	11600.7	13053.7	15668.4	17349.8	17267.0	16403.2	12719.4	8704.7	4355.7	1678.1
75°	8334.0	8612.0	11203.6	13553.5	15486.4	14917.1	13275.5	8926.4	4541.0	1333.8	489.8
77.5°	4150.4	4196.8	6953.8	9839.9	11359.1	10793.1	8896.7	4977.9	1697.9	393.9	244.9
80°	1913.0	1926.3	2608.1	5097.0	6867.8	6464.0	4984.5	2455.8	767.9	208.5	192.0
82.5°	1304.0	1323.9	1572.1	2111.6	2982.1	2515.4	2019.0	1572.1	440.2	125.8	188.7
85°	238.3	218.4	880.4	1118.7	1151.8	781.1	698.4	1360.3	165.5	72.8	165.5
87.5°	0.0	3.3	122.5	456.7	410.4	182.0	238.3	331.0	16.5	23.2	29.8
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°	4392.1	4392.1	4392.1	4392.1	4392.1	4392.1	4392.1	4392.1	4392.1	4392.1	4392.1
2.5°	4385.4	4349.0	4226.6	4090.9	3968.4	3872.4	3750.0	3693.7	3604.3	3554.7	3551.4
5°	4322.6	4223.3	4011.4	3783.1	3528.2	3316.4	3081.4	2949.0	2796.8	2750.4	2740.5
7.5°	4216.6	4074.3	3763.2	3442.2	3051.6	2677.6	2389.7	2081.8	1893.2	1813.8	1784.0
10°	4150.4	3978.3	3554.7	3074.8	2528.7	2002.4	1598.6	1271.0	1098.8	1016.1	996.2
12.5°	4150.4	3965.1	3385.9	2723.9	1999.1	1370.2	989.6	801.0	744.7	724.8	724.8
15°	4140.5	3938.6	3223.7	2363.2	1479.5	920.1	738.1	698.4	691.7	688.4	685.1
17.5°	4190.2	3892.3	3058.2	1975.9	1045.9	724.8	678.5	671.9	665.3	665.3	658.6
20°	4226.6	3865.8	2859.6	1565.5	781.1	671.9	652.0	642.1	638.8	635.5	642.1
22.5°	4196.8	3826.1	2614.7	1171.7	681.8	638.8	625.5	615.6	609.0	609.0	612.3
25°	4253.0	3789.7	2369.8	883.7	638.8	609.0	595.8	589.1	585.8	582.5	575.9
27.5°	4329.2	3806.2	2078.5	711.6	602.4	579.2	566.0	559.4	556.0	549.4	556.0
30°	4421.8	3802.9	1757.5	622.2	569.3	546.1	532.9	529.6	522.9	519.6	522.9
32.5°	4580.7	3889.0	1426.5	575.9	532.9	513.0	499.8	496.5	493.2	489.8	486.5
35°	4921.6	3994.9	1115.4	539.5	499.8	476.6	466.7	460.1	456.7	453.4	450.1
37.5°	5342.0	4229.9	850.6	506.4	466.7	443.5	433.6	430.3	417.0	413.7	410.4
40°	5868.2	4481.4	655.3	470.0	436.9	413.7	403.8	393.9	377.3	370.7	364.1
42.5°	6523.5	4726.3	539.5	436.9	403.8	387.2	370.7	354.1	340.9	327.7	321.0
45°	7178.9	5011.0	473.3	407.1	377.3	357.5	344.2	321.0	297.9	278.0	274.7
47.5°	7725.0	5113.6	433.6	374.0	350.8	334.3	314.4	284.6	251.5	231.7	228.4
50°	8132.1	5054.0	393.9	340.9	321.0	304.5	278.0	241.6	208.5	188.7	182.0
52.5°	8211.5	4792.5	357.5	314.4	291.3	271.4	241.6	201.9	165.5	145.6	142.3
55°	8155.3	4359.0	327.7	291.3	264.8	235.0	201.9	162.2	129.1	109.2	105.9
57.5°	8039.4	3845.9	294.6	261.5	231.7	201.9	165.5	132.4	96.0	76.1	76.1
60°	7645.6	3147.6	261.5	228.4	198.6	172.1	135.7	96.0	66.2	49.6	46.3
62.5°	7096.1	2419.4	228.4	195.3	172.1	142.3	105.9	69.5	39.7	26.5	26.5
65°	6093.3	1694.6	192.0	162.2	142.3	115.8	79.4	43.0	23.2	9.9	9.9
67.5°	4630.4	1049.2	158.9	135.7	122.5	92.7	56.3	26.5	9.9	3.3	0.0
70°	2657.7	546.1	125.8	109.2	96.0	69.5	39.7	13.2	6.6	0.0	0.0
71°	1856.8	403.8	112.5	96.0	86.1	62.9	33.1	9.9	3.3	0.0	0.0
72.5°	930.0	268.1	96.0	79.4	69.5	49.6	26.5	9.9	3.3	0.0	0.0
75°	331.0	172.1	66.2	53.0	49.6	36.4	16.5	6.6	3.3	0.0	0.0
77.5°	228.4	139.0	46.3	33.1	33.1	23.2	9.9	3.3	3.3	0.0	0.0
80°	208.5	76.1	29.8	19.9	16.5	13.2	6.6	3.3	0.0	0.0	0.0
82.5°	208.5	56.3	16.5	13.2	9.9	6.6	3.3	0.0	0.0	0.0	0.0
85°	145.6	29.8	9.9	9.9	6.6	3.3	0.0	0.0	0.0	0.0	0.0
87.5°	23.2	9.9	6.6	3.3	3.3	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)