

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: P484535

Luminaire Tested: **IFLD-M-SA4C-827-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484535  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-827-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (64) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

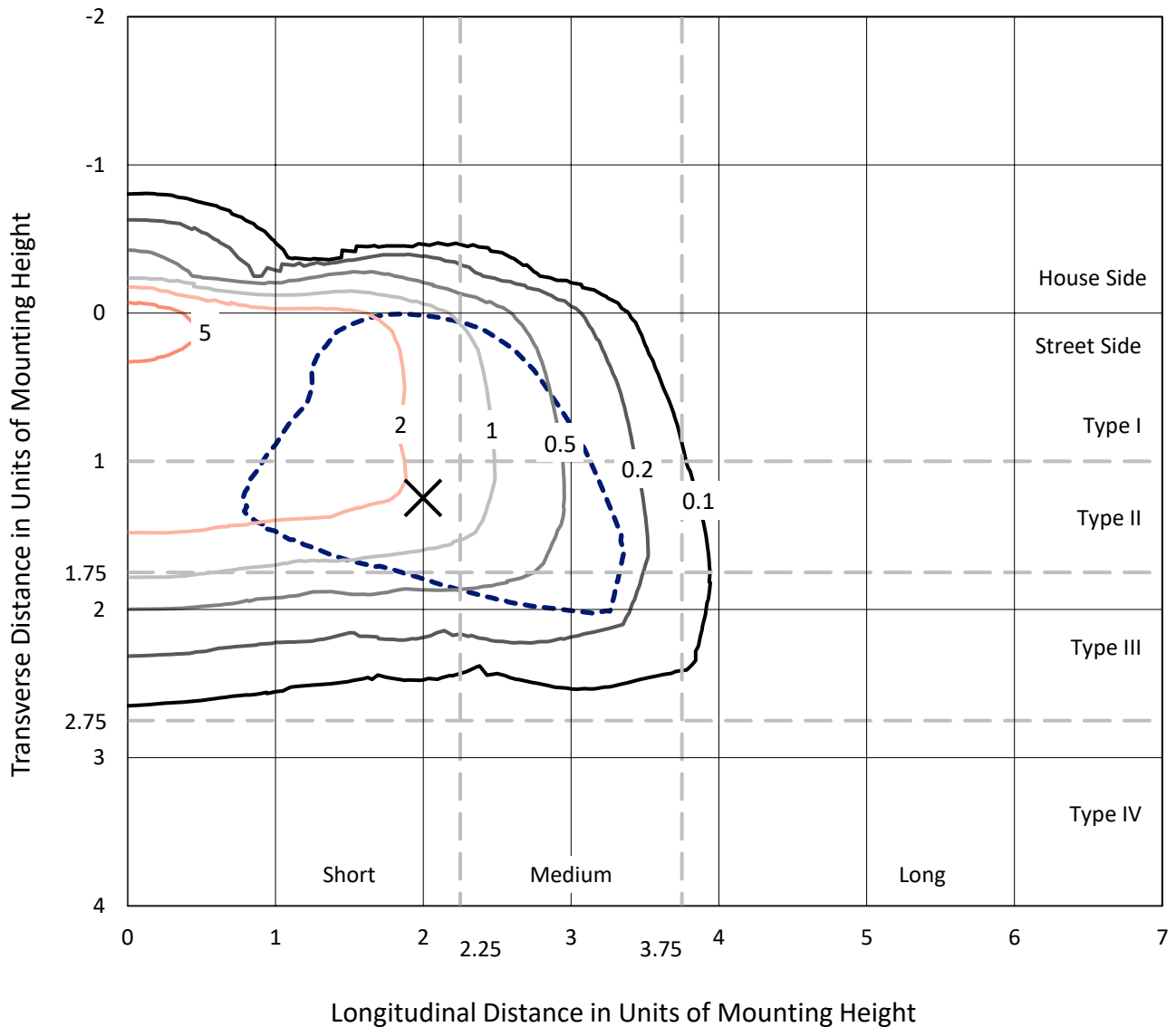
Lumens per Lamp: N/A  
Luminaire Lumens: 17478.7 lumens  
Efficiency: N/A  
Efficacy: 80.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 218.1  
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

REPORT NUMBER: P484535  
 CATALOG NUMBER: IFLD-M-SA4C-827-U-SL3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

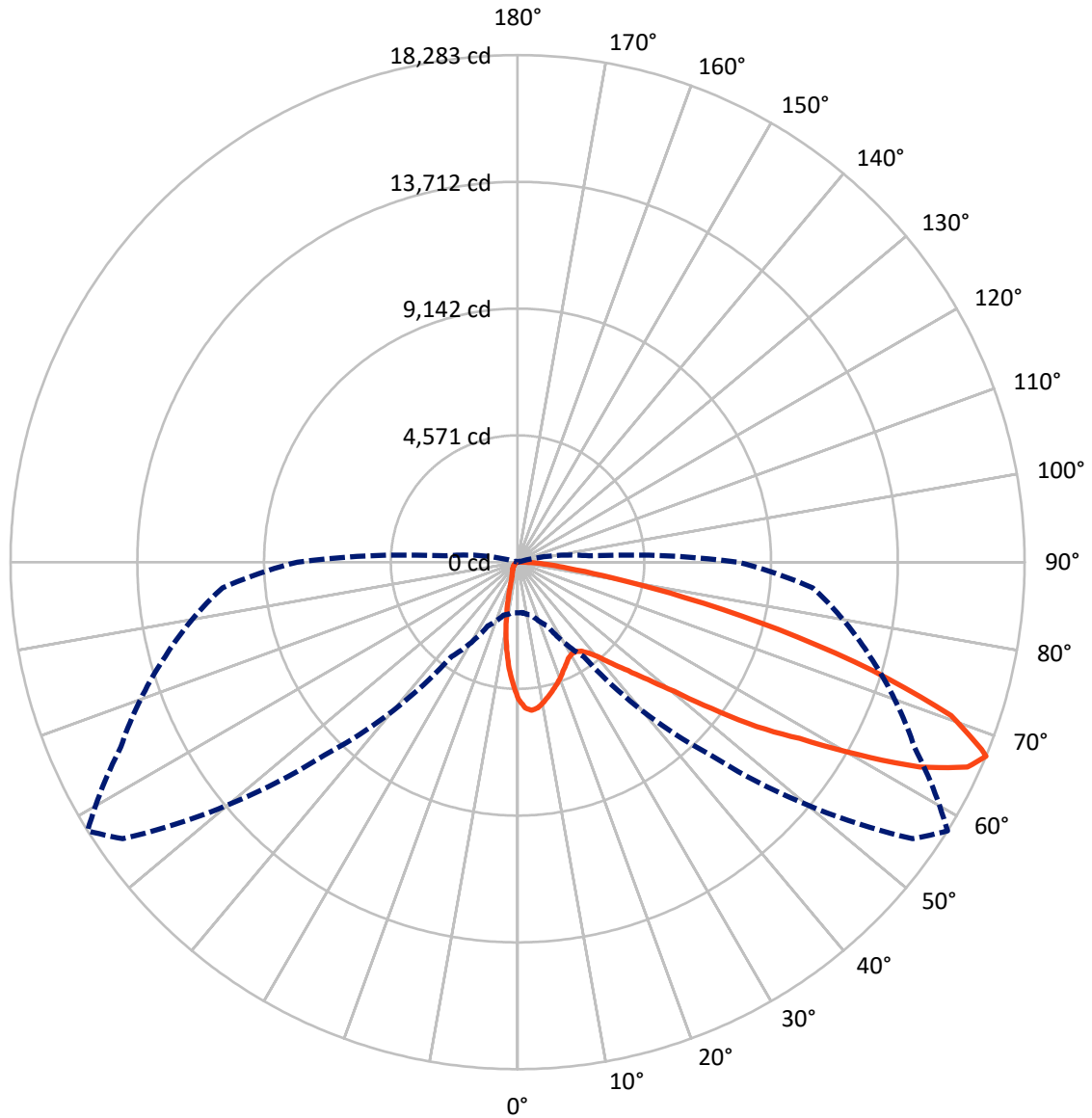
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type III - Short - N/A

REPORT NUMBER: P484535  
CATALOG NUMBER: IFLD-M-SA4C-827-U-SL3-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P484535  
 CATALOG NUMBER: IFLD-M-SA4C-827-U-SL3-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1444.7	0.0	1444.7
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	16034.0	0.0	16034.0
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	17478.7	0.0	17478.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	392.9	2.2
10°-20°	815.0	4.7
20°-30°	1081.3	6.2
30°-40°	1498.3	8.6
40°-50°	2444.8	14.0
50°-60°	4297.3	24.6
60°-70°	4759.6	27.2
70°-80°	1972.4	11.3
80°-90°	217.1	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°	17478.7	100.0
0°-180°	17478.7	100.0

**Coefficient of Utilization**



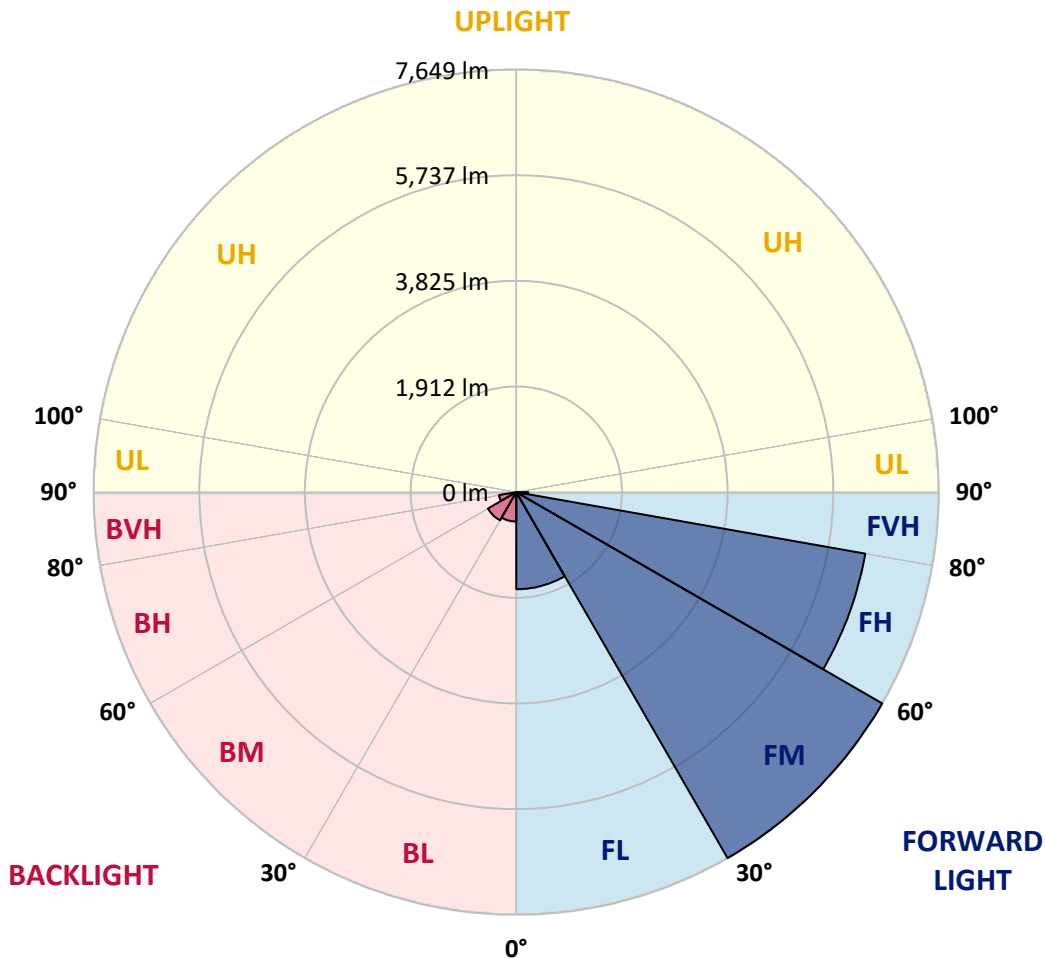
REPORT NUMBER: P484535  
 CATALOG NUMBER: IFLD-M-SA4C-827-U-SL3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1757.1	10.1			
FM (30°-60°)	7649.0	43.8			
FH (60°-80°)	6414.3	36.7			G3/7500
FVH (80°-90°)	213.5	1.2			G2/225
BL (0°-30°)	532.1	3.0	B2/1000		
BM (30°-60°)	591.4	3.4	B1/1000		
BH (60°-80°)	317.6	1.8	B1/500		G1/500
BVH (80°-90°)	3.6	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-G3**

Type III Short





REPORT NUMBER: P484535

CATALOG NUMBER: IFLD-M-SA4C-827-U-SL3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4951.9	4951.9	4951.9	4951.9	4951.9	4951.9	4951.9	4951.9	4951.9	4951.9	4951.9
2.5°	5388.2	5406.8	5423.0	5392.8	5418.4	5381.2	5286.1	5265.2	5249.0	5107.4	5026.2
5°	5385.9	5365.0	5381.2	5395.2	5360.4	5388.2	5365.0	5367.3	5304.7	5177.0	4949.6
7.5°	5026.2	5016.9	5026.2	5093.5	5170.1	5230.4	5265.2	5300.0	5258.3	5068.0	4847.5
10°	4541.2	4587.6	4613.2	4733.8	4852.2	4963.6	5072.6	5137.6	5126.0	5049.4	4736.1
12.5°	4202.4	4188.5	4281.3	4360.2	4478.6	4703.7	4893.9	4954.3	5023.9	4917.1	4589.9
15°	3889.2	3852.0	3907.7	4044.6	4246.5	4425.2	4692.1	4782.6	4870.7	4898.6	4511.1
17.5°	3589.8	3608.4	3666.4	3789.4	3979.7	4230.3	4480.9	4610.8	4822.0	4784.9	4392.7
20°	3445.9	3485.4	3506.3	3568.9	3701.2	3951.8	4325.4	4429.8	4654.9	4782.6	4276.7
22.5°	3452.9	3452.9	3404.2	3441.3	3562.0	3756.9	4114.2	4230.3	4587.6	4661.9	4172.3
25°	3527.2	3480.8	3483.1	3439.0	3490.0	3596.8	3924.0	4065.5	4450.7	4673.5	4116.6
27.5°	3582.9	3573.6	3559.6	3548.0	3483.1	3499.3	3798.7	3914.7	4397.3	4659.6	4030.7
30°	3784.7	3743.0	3729.0	3703.5	3617.7	3538.8	3698.9	3845.1	4355.6	4692.1	3982.0
32.5°	3954.1	3961.1	3972.7	3898.4	3824.2	3629.3	3726.7	3842.7	4325.4	4766.3	4030.7
35°	4167.6	4197.8	4202.4	4179.2	4100.3	3907.7	3842.7	3942.5	4376.5	4898.6	4035.4
37.5°	4492.5	4460.0	4548.2	4557.5	4501.8	4246.5	4111.9	4151.4	4527.3	5109.7	4211.7
40°	4703.7	4743.1	4907.9	5010.0	4914.8	4682.8	4501.8	4494.8	4745.4	5441.6	4429.8
42.5°	4938.0	5026.2	5207.2	5427.7	5416.0	5200.2	5016.9	4986.8	5132.9	5921.9	4775.6
45°	5258.3	5337.2	5590.1	5921.9	6102.9	5919.6	5643.5	5583.1	5604.0	6576.3	5365.0
47.5°	5789.6	5768.8	6133.1	6460.3	6757.3	6615.7	6497.4	6321.0	6304.8	7346.7	6179.5
50°	6390.7	6386.0	6710.9	7082.2	7425.6	7701.7	7504.5	7311.9	7316.5	8393.3	7137.9
52.5°	6961.5	7052.0	7402.4	7771.4	8360.8	8657.8	8848.1	8771.5	8402.5	9328.4	8163.5
55°	7263.2	7342.1	7690.1	8326.0	9256.5	10019.9	10535.1	10470.1	9757.7	10381.9	9175.3
57.5°	6977.7	7031.1	7502.2	8335.2	9883.0	11586.3	12080.5	11999.3	11159.3	11187.1	10398.2
60°	5782.7	5866.2	6567.0	7543.9	9639.4	12792.9	14208.4	14085.4	12435.6	12205.8	11184.8
62.5°	4005.2	4060.9	4636.4	5852.3	8483.7	13212.9	16218.0	16285.3	13781.5	12999.4	11419.2
65°	2594.3	2589.7	2919.2	3743.0	6012.4	11941.3	17406.1	17823.8	15080.9	13120.1	11347.2
67°	1833.2	1826.2	1981.7	2538.6	4163.0	9838.9	17385.2	18283.2	15786.4	13154.9	10681.3
67.5°	1691.6	1684.7	1833.2	2334.4	3756.9	9149.7	17125.3	18046.5	16034.7	13106.2	10388.9
70°	1313.4	1294.8	1350.5	1608.1	2188.2	5917.3	14656.3	16577.7	15519.5	11890.2	8295.8
72.5°	949.1	970.0	1058.1	1320.4	1717.2	3183.7	11170.9	13405.5	12962.3	8961.8	5272.2
75°	661.3	679.9	821.5	1076.7	1575.6	1930.7	7553.2	9722.9	9029.1	4947.3	2246.2
77.5°	345.8	369.0	524.4	860.9	1431.7	1494.4	4513.4	6165.6	4784.9	1761.3	619.6
80°	160.1	171.7	262.2	610.3	1197.4	1313.4	2631.4	3429.7	1914.4	394.5	213.5
82.5°	69.6	76.6	120.7	350.4	849.3	1148.6	1629.0	1798.4	693.8	127.6	132.3
85°	13.9	16.2	46.4	185.6	410.7	696.2	1144.0	1067.4	348.1	62.7	104.4
87.5°	0.0	0.0	11.6	53.4	111.4	206.5	485.0	485.0	106.7	32.5	39.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P484535

CATALOG NUMBER: IFLD-M-SA4C-827-U-SL3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4951.9	4951.9	4951.9	4951.9	4951.9	4951.9	4951.9	4951.9	4951.9	4951.9	4951.9
2.5°	4954.3	4870.7	4687.4	4518.0	4397.3	4260.4	4079.4	3998.2	3968.1	3926.3	3863.6
5°	4824.3	4722.2	4409.0	4093.4	3747.6	3485.4	3206.9	3044.5	2921.5	2844.9	2819.4
7.5°	4641.0	4432.2	4009.8	3504.0	3056.1	2666.3	2243.9	1958.5	1775.2	1700.9	1631.3
10°	4494.8	4223.3	3580.5	2951.7	2355.3	1784.5	1308.8	1058.1	867.9	795.9	786.6
12.5°	4304.5	3979.7	3179.1	2387.8	1638.3	1062.8	724.0	628.9	575.5	566.2	559.2
15°	4146.7	3759.2	2798.5	1849.4	1060.5	663.7	563.9	540.7	526.8	522.1	524.4
17.5°	4040.0	3522.5	2408.7	1345.9	698.5	543.0	519.8	505.9	498.9	496.6	489.6
20°	3828.8	3323.0	2023.5	942.1	545.3	501.2	482.7	471.1	464.1	461.8	459.5
22.5°	3708.2	3070.0	1638.3	656.7	485.0	454.8	440.9	431.6	420.0	413.0	410.7
25°	3587.5	2884.4	1294.8	510.5	440.9	420.0	399.1	387.5	369.0	359.7	357.4
27.5°	3445.9	2701.1	997.8	443.2	396.8	375.9	355.0	336.5	313.3	304.0	299.3
30°	3364.7	2522.4	751.8	396.8	364.3	336.5	310.9	287.7	262.2	246.0	241.3
32.5°	3323.0	2359.9	563.9	362.0	329.5	299.3	266.9	239.0	215.8	201.9	199.6
35°	3271.9	2202.2	443.2	329.5	297.0	264.5	232.1	204.2	181.0	169.4	164.8
37.5°	3325.3	2109.3	369.0	304.0	271.5	234.4	199.6	171.7	153.2	141.6	139.2
40°	3471.5	2032.8	320.2	280.8	246.0	206.5	174.0	146.2	129.9	120.7	116.0
42.5°	3696.6	2032.8	290.1	257.6	222.8	181.0	148.5	127.6	111.4	102.1	99.8
45°	4105.0	2095.4	264.5	234.4	194.9	155.5	127.6	106.7	90.5	81.2	78.9
47.5°	4678.1	2239.3	243.7	213.5	174.0	136.9	111.4	90.5	74.3	65.0	62.7
50°	5448.5	2566.5	222.8	188.0	155.5	118.3	92.8	71.9	58.0	48.7	46.4
52.5°	6409.2	3030.6	201.9	174.0	132.3	99.8	74.3	58.0	44.1	37.1	34.8
55°	7425.6	3599.1	176.4	155.5	113.7	83.5	60.3	44.1	32.5	27.8	25.5
57.5°	8448.9	4037.7	155.5	134.6	92.8	67.3	48.7	34.8	23.2	18.6	16.2
60°	8991.9	4079.4	134.6	111.4	74.3	53.4	37.1	25.5	16.2	11.6	9.3
62.5°	9075.5	3708.2	116.0	90.5	60.3	41.8	25.5	18.6	9.3	4.6	4.6
65°	8646.2	3090.9	99.8	71.9	46.4	30.2	18.6	11.6	4.6	2.3	0.0
67°	7950.0	2589.7	85.9	60.3	37.1	23.2	13.9	7.0	2.3	0.0	0.0
67.5°	7680.9	2450.4	81.2	55.7	34.8	20.9	11.6	7.0	2.3	0.0	0.0
70°	5961.4	1749.7	60.3	39.4	25.5	16.2	9.3	4.6	0.0	0.0	0.0
72.5°	3652.5	1023.3	46.4	27.8	18.6	11.6	7.0	2.3	0.0	0.0	0.0
75°	1531.5	352.7	39.4	20.9	13.9	7.0	4.6	2.3	0.0	0.0	0.0
77.5°	399.1	132.3	27.8	13.9	9.3	7.0	4.6	2.3	0.0	0.0	0.0
80°	162.4	60.3	18.6	9.3	9.3	7.0	4.6	2.3	0.0	0.0	0.0
82.5°	106.7	27.8	11.6	9.3	7.0	4.6	2.3	0.0	0.0	0.0	0.0
85°	81.2	16.2	7.0	7.0	4.6	2.3	0.0	0.0	0.0	0.0	0.0
87.5°	34.8	9.3	7.0	4.6	4.6	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)