

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: P484811

Luminaire Tested: **IFLD-L-SA7A-740-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484811
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-740-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

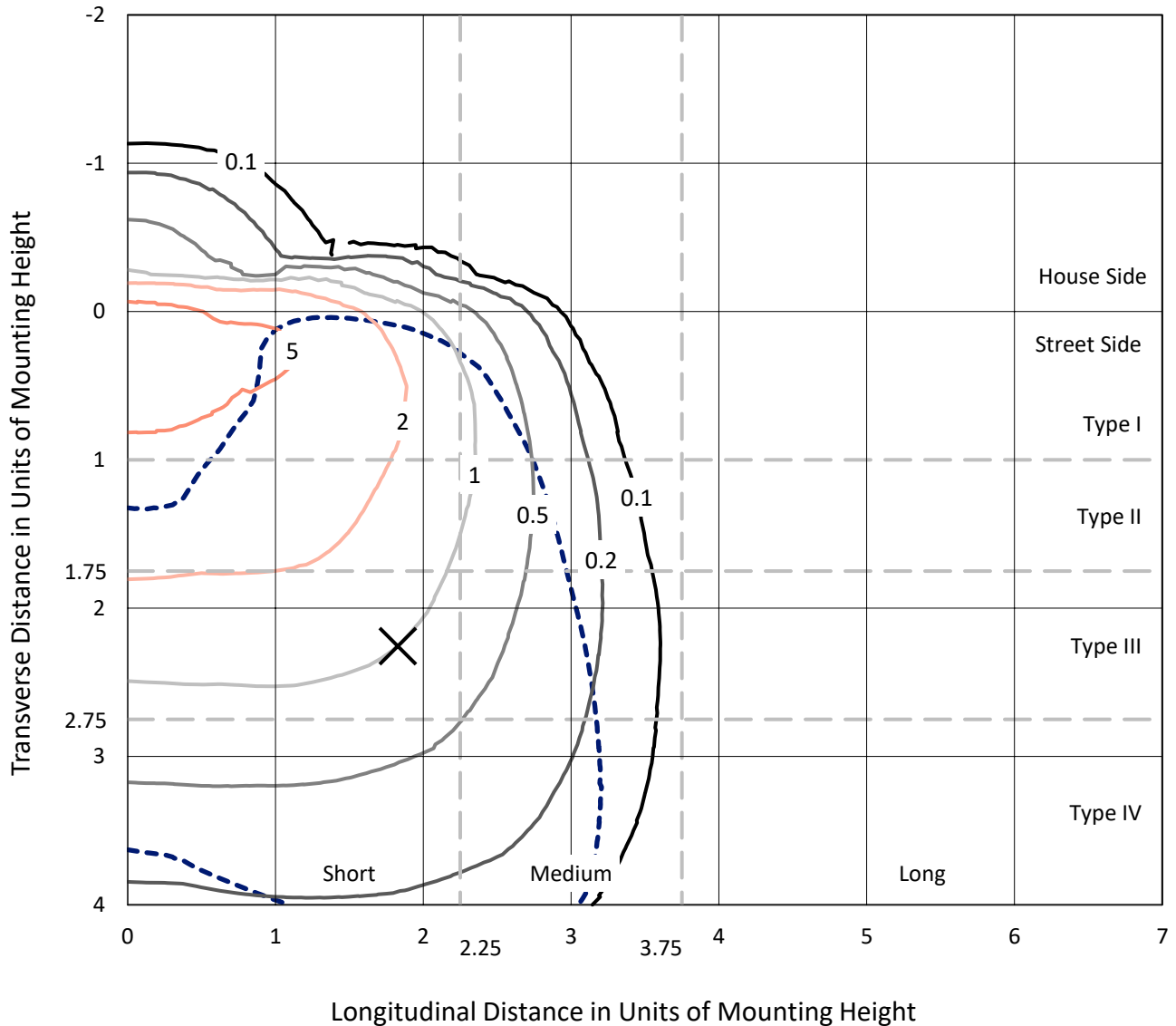
Lumens per Lamp: N/A
Luminaire Lumens: 25857.9 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 217.6
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

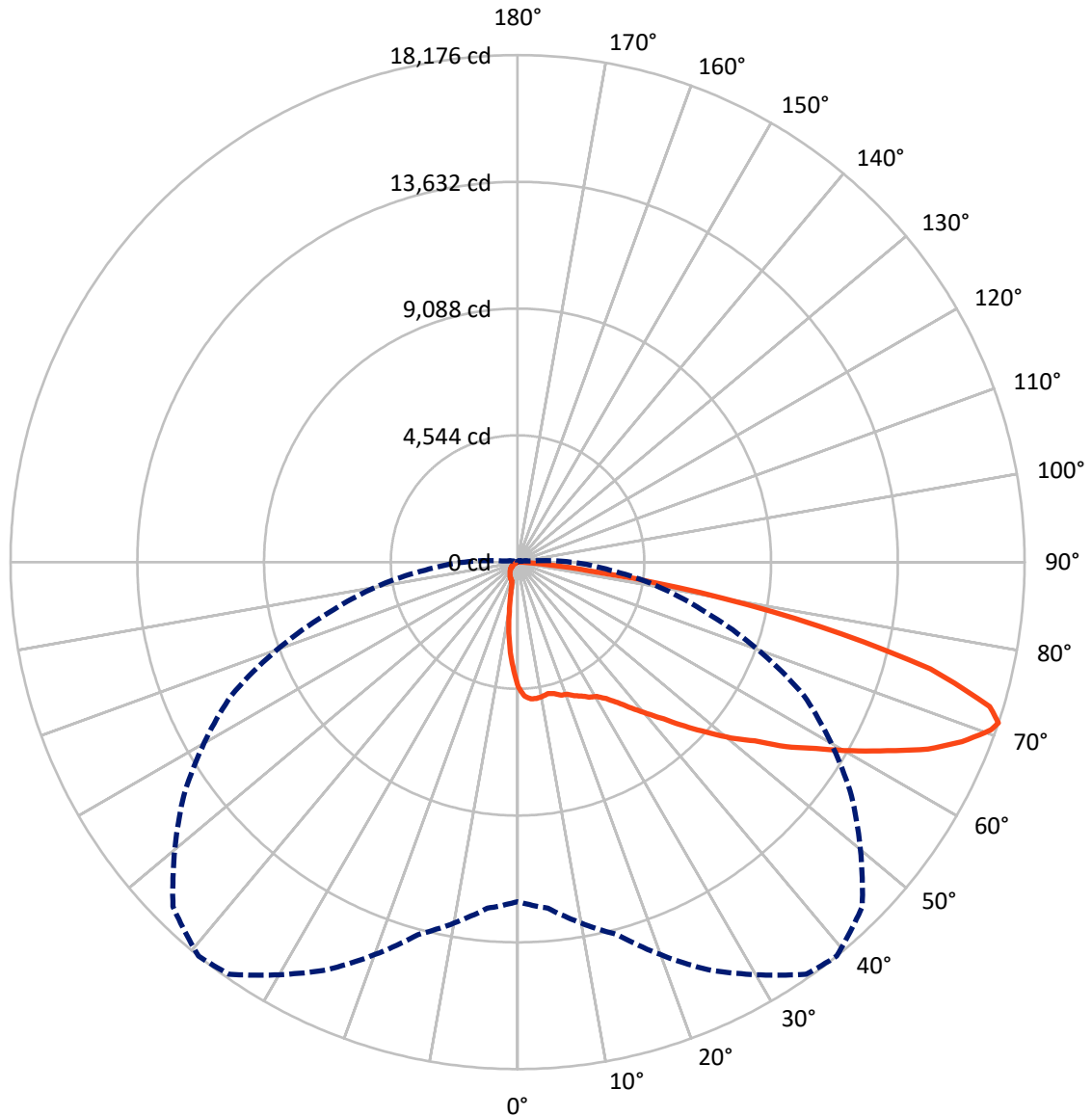
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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
House Side	Lumens	1946.7	0.0	1946.7
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	23911.2	0.0	23911.2
	% Fixture	92.5	0.0	92.5
Total	Lumens	25857.9	0.0	25857.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.3	1.5
10°-20°	926.2	3.6
20°-30°	1486.8	5.8
30°-40°	2276.0	8.8
40°-50°	3653.4	14.1
50°-60°	5366.2	20.8
60°-70°	6758.5	26.1
70°-80°	4510.5	17.4
80°-90°	504.1	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°	25857.9	100.0
0°-180°	25857.9	100.0

Coefficient of Utilization

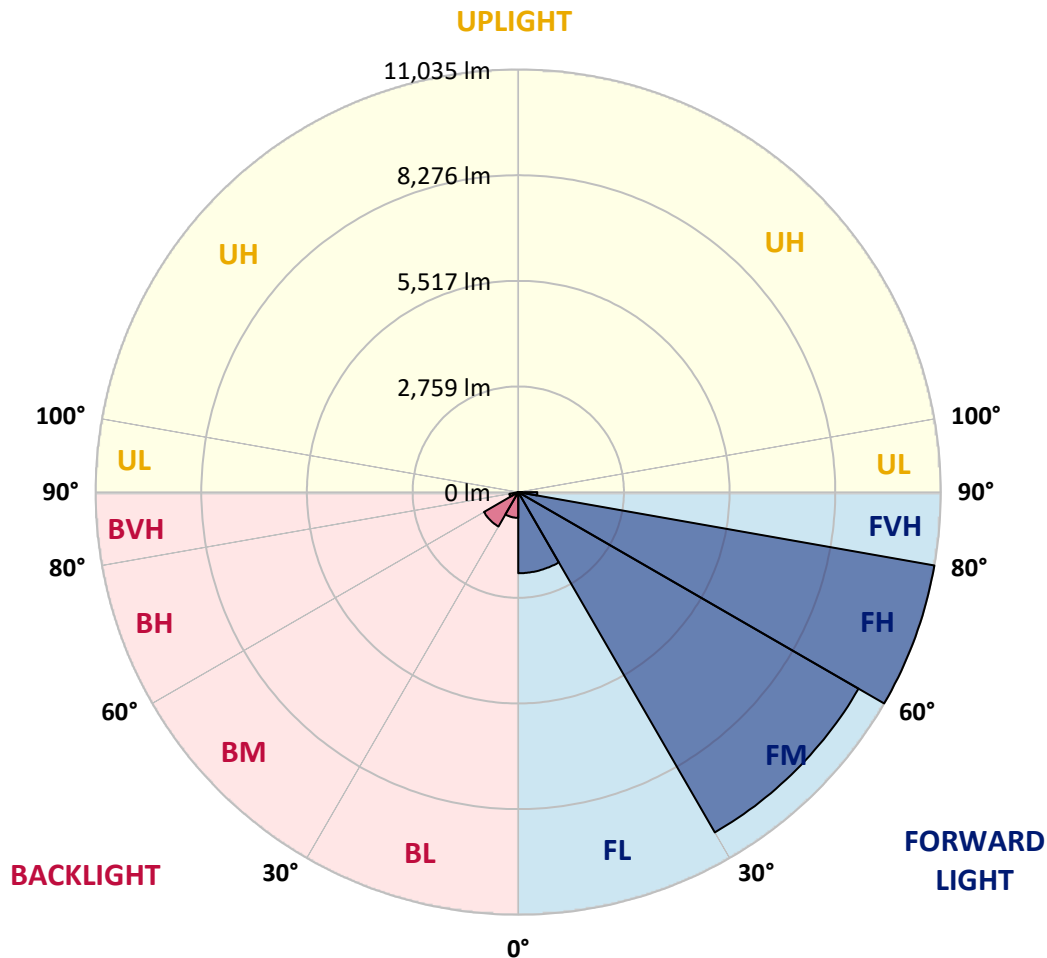


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2117.2	8.2			
FM (30°-60°)	10260.8	39.7			
FH (60°-80°)	11034.7	42.7			G4/12000
FVH (80°-90°)	498.5	1.9			G3/500
BL (0°-30°)	672.1	2.6	B2/1000		
BM (30°-60°)	1034.7	4.0	B2/2500		
BH (60°-80°)	234.3	0.9	B1/500		G1/500
BVH (80°-90°)	5.6	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4500.7	4500.7	4500.7	4500.7	4500.7	4500.7	4500.7	4500.7	4500.7	4500.7	4500.7
2.5°	4850.1	4897.6	4850.1	4829.7	4809.4	4812.8	4758.5	4768.7	4704.2	4619.4	4551.6
5°	5002.7	5067.1	5016.3	4992.5	4989.1	4924.7	4897.6	4833.1	4755.1	4622.8	4541.4
7.5°	4989.1	4975.6	4999.3	4979.0	4934.9	4934.9	4904.3	4812.8	4734.8	4585.5	4446.5
10°	4887.4	4928.1	4907.7	4884.0	4894.2	4897.6	4839.9	4775.5	4751.7	4602.5	4375.2
12.5°	4877.2	4809.4	4884.0	4887.4	4843.3	4839.9	4833.1	4816.2	4741.5	4605.9	4392.2
15°	4843.3	4816.2	4890.8	4894.2	4904.3	4894.2	4904.3	4890.8	4816.2	4738.2	4466.8
17.5°	4870.4	4839.9	4945.0	4995.9	4972.2	5019.7	5002.7	4941.6	4877.2	4785.6	4538.0
20°	4877.2	4921.3	5036.6	5057.0	5131.6	5053.6	5050.2	4985.7	4945.0	4846.7	4582.1
22.5°	5002.7	5023.0	5165.5	5209.6	5213.0	5202.8	5118.0	5043.4	5026.4	4904.3	4592.3
25°	5192.6	5263.9	5328.3	5355.4	5365.6	5318.1	5229.9	5135.0	5094.3	5016.3	4697.5
27.5°	5528.4	5484.3	5542.0	5582.7	5467.4	5484.3	5372.4	5291.0	5233.3	5165.5	4819.6
30°	5826.9	5786.2	5789.6	5782.8	5684.4	5592.8	5562.3	5419.9	5348.6	5375.8	5009.5
32.5°	6094.8	6006.6	6081.2	6047.3	5864.2	5837.0	5813.3	5633.5	5647.1	5772.6	5294.4
35°	6342.4	6311.9	6372.9	6311.9	6189.8	6183.0	6159.3	6003.2	6077.9	6257.6	5782.8
37.5°	6569.6	6579.8	6654.4	6623.9	6634.1	6640.9	6627.3	6461.1	6674.8	7078.4	6352.6
40°	6779.9	6766.4	6949.5	7044.5	7064.8	7139.4	7139.4	7098.7	7427.7	7882.2	7142.8
42.5°	7003.8	7037.7	7275.1	7434.5	7627.8	7692.3	7780.5	7800.8	8309.6	8828.5	7950.1
45°	7370.1	7312.4	7614.3	7990.8	8160.3	8387.6	8523.2	8638.6	9252.5	9964.7	8757.3
47.5°	7834.7	7719.4	7984.0	8530.0	8923.5	9110.0	9354.2	9506.8	10107.1	10843.1	9520.4
50°	8350.3	8231.6	8360.4	9113.4	9571.3	9910.4	10222.5	10415.8	11141.6	11826.7	10076.6
52.5°	8933.6	8825.1	8845.5	9720.5	10395.4	10643.0	11053.4	11341.7	12064.1	12420.3	10273.3
55°	9554.3	9527.2	9462.7	10314.0	11117.9	11674.1	11921.7	12267.6	13010.4	12742.5	10487.0
57.5°	10178.4	10093.6	10185.2	11100.9	12277.8	12610.2	12952.8	13159.6	13536.1	13024.0	10405.6
60°	10765.1	10771.9	10900.8	11955.6	13264.8	13736.2	14044.9	13919.4	14075.4	13146.1	10219.1
62.5°	11260.3	11246.7	11572.3	12915.4	14570.6	14889.4	15120.0	14560.4	14326.4	13264.8	9893.5
65°	11704.6	11857.2	12369.4	14058.4	15798.4	16164.7	16025.6	15167.5	14570.6	12915.4	8977.7
67.5°	12040.4	12267.6	13156.3	15133.6	16924.4	17182.2	16988.8	15628.8	14282.3	11545.2	7312.4
70°	12237.1	12467.7	13719.3	16029.0	17823.2	18009.7	17555.2	15272.6	12600.0	8360.4	4561.8
71°	12176.1	12457.6	13827.8	16124.0	18036.9	18175.9	17470.4	14614.7	11331.5	7000.4	3327.2
72.5°	11623.2	11887.8	13376.7	16056.1	17779.1	17694.3	16809.1	13034.2	8920.1	4463.4	1719.6
75°	8540.2	8825.1	11480.8	13888.9	15869.6	15286.2	13604.0	9147.3	4653.4	1366.8	502.0
77.5°	4253.1	4300.6	7125.9	10083.4	11640.2	11060.2	9116.8	5101.1	1739.9	403.6	251.0
80°	1960.4	1973.9	2672.6	5223.2	7037.7	6623.9	5107.8	2516.6	786.9	213.7	196.7
82.5°	1336.3	1356.7	1611.0	2163.9	3055.9	2577.7	2068.9	1611.0	451.1	128.9	193.3
85°	244.2	223.8	902.2	1146.4	1180.3	800.4	715.6	1394.0	169.6	74.6	169.6
87.5°	0.0	3.4	125.5	468.0	420.6	186.5	244.2	339.2	17.0	23.7	30.5
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°	4500.7	4500.7	4500.7	4500.7	4500.7	4500.7	4500.7	4500.7	4500.7	4500.7	4500.7
2.5°	4494.0	4456.6	4331.2	4192.1	4066.6	3968.2	3842.8	3785.1	3693.5	3642.6	3639.3
5°	4429.5	4327.8	4110.7	3876.7	3615.5	3398.4	3157.6	3022.0	2866.0	2818.5	2808.3
7.5°	4321.0	4175.1	3856.3	3527.3	3127.1	2743.9	2448.8	2133.4	1940.0	1858.6	1828.1
10°	4253.1	4076.8	3642.6	3150.9	2591.2	2052.0	1638.2	1302.4	1126.0	1041.2	1020.9
12.5°	4253.1	4063.2	3469.7	2791.3	2048.6	1404.1	1014.1	820.8	763.1	742.8	742.8
15°	4243.0	4036.1	3303.5	2421.6	1516.1	942.9	756.3	715.6	708.9	705.5	702.1
17.5°	4293.8	3988.6	3133.9	2024.8	1071.8	742.8	695.3	688.5	681.7	681.7	674.9
20°	4331.2	3961.5	2930.4	1604.3	800.4	688.5	668.2	658.0	654.6	651.2	658.0
22.5°	4300.6	3920.8	2679.4	1200.6	698.7	654.6	641.0	630.8	624.1	624.1	627.5
25°	4358.3	3883.5	2428.4	905.6	654.6	624.1	610.5	603.7	600.3	596.9	590.1
27.5°	4436.3	3900.4	2130.0	729.2	617.3	593.5	580.0	573.2	569.8	563.0	569.8
30°	4531.3	3897.0	1801.0	637.6	583.4	559.6	546.1	542.7	535.9	532.5	535.9
32.5°	4694.1	3985.2	1461.8	590.1	546.1	525.7	512.1	508.7	505.4	502.0	498.6
35°	5043.4	4093.7	1143.0	552.8	512.1	488.4	478.2	471.4	468.0	464.7	461.3
37.5°	5474.1	4334.5	871.7	518.9	478.2	454.5	444.3	440.9	427.3	424.0	420.6
40°	6013.4	4592.3	671.5	481.6	447.7	424.0	413.8	403.6	386.6	379.9	373.1
42.5°	6685.0	4843.3	552.8	447.7	413.8	396.8	379.9	362.9	349.3	335.8	329.0
45°	7356.5	5135.0	485.0	417.2	386.6	366.3	352.7	329.0	305.2	284.9	281.5
47.5°	7916.1	5240.1	444.3	383.3	359.5	342.6	322.2	291.7	257.8	237.4	234.0
50°	8333.3	5179.1	403.6	349.3	329.0	312.0	284.9	247.6	213.7	193.3	186.5
52.5°	8414.7	4911.1	366.3	322.2	298.5	278.1	247.6	206.9	169.6	149.2	145.8
55°	8357.1	4466.8	335.8	298.5	271.3	240.8	206.9	166.2	132.3	111.9	108.5
57.5°	8238.3	3941.1	301.9	267.9	237.4	206.9	169.6	135.7	98.4	78.0	78.0
60°	7834.7	3225.5	267.9	234.0	203.5	176.4	139.1	98.4	67.8	50.9	47.5
62.5°	7271.7	2479.3	234.0	200.1	176.4	145.8	108.5	71.2	40.7	27.1	27.1
65°	6244.0	1736.5	196.7	166.2	145.8	118.7	81.4	44.1	23.7	10.2	10.2
67.5°	4744.9	1075.2	162.8	139.1	125.5	95.0	57.7	27.1	10.2	3.4	0.0
70°	2723.5	559.6	128.9	111.9	98.4	71.2	40.7	13.6	6.8	0.0	0.0
71°	1902.7	413.8	115.3	98.4	88.2	64.4	33.9	10.2	3.4	0.0	0.0
72.5°	953.1	274.7	98.4	81.4	71.2	50.9	27.1	10.2	3.4	0.0	0.0
75°	339.2	176.4	67.8	54.3	50.9	37.3	17.0	6.8	3.4	0.0	0.0
77.5°	234.0	142.4	47.5	33.9	33.9	23.7	10.2	3.4	3.4	0.0	0.0
80°	213.7	78.0	30.5	20.3	17.0	13.6	6.8	3.4	0.0	0.0	0.0
82.5°	213.7	57.7	17.0	13.6	10.2	6.8	3.4	0.0	0.0	0.0	0.0
85°	149.2	30.5	10.2	10.2	6.8	3.4	0.0	0.0	0.0	0.0	0.0
87.5°	23.7	10.2	6.8	3.4	3.4	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)