

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: P484855

Luminaire Tested: **IFLD-L-SA8A-750-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484855
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-750-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

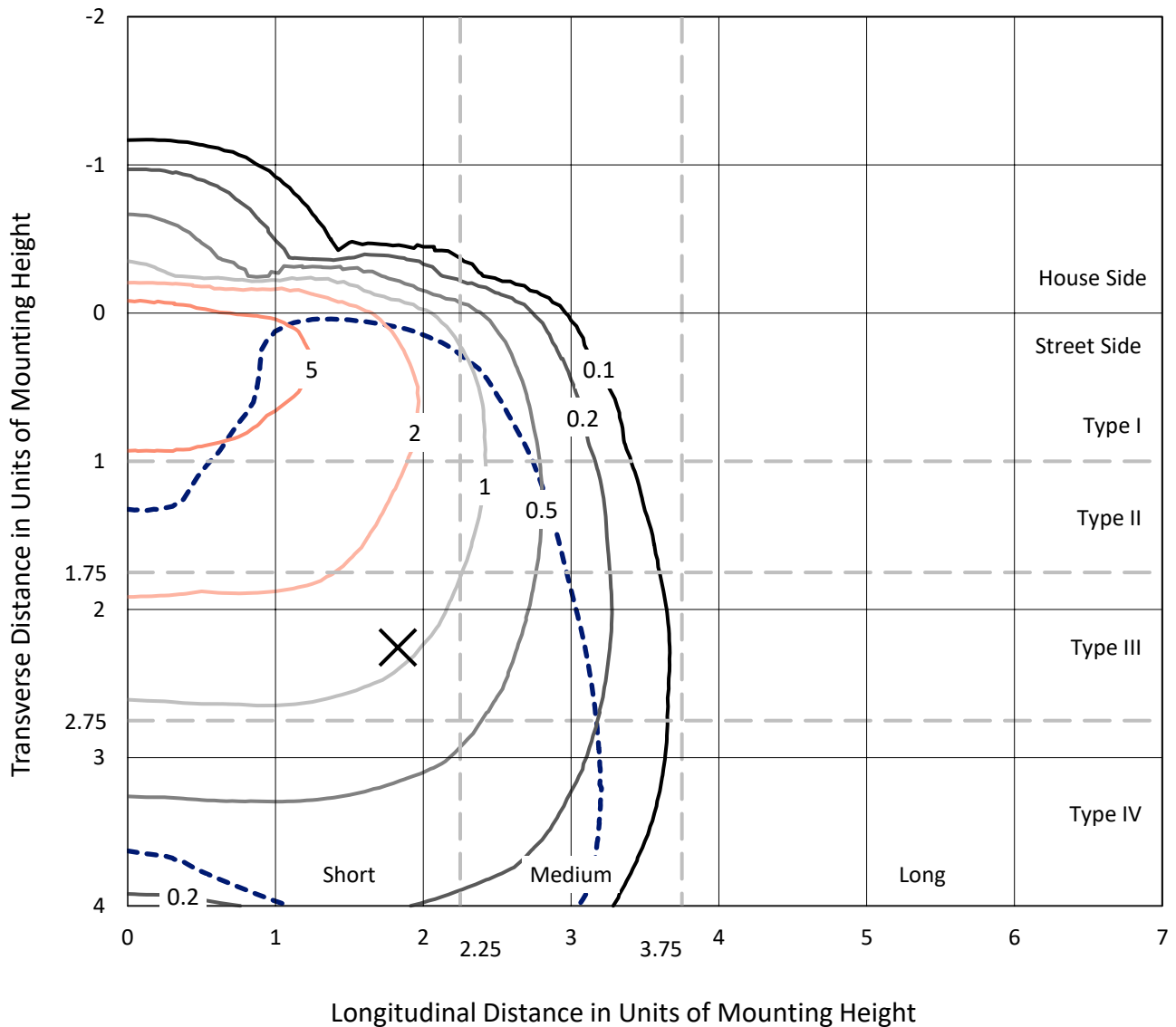
Lumens per Lamp: N/A
Luminaire Lumens: 28947.7 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 247.8
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

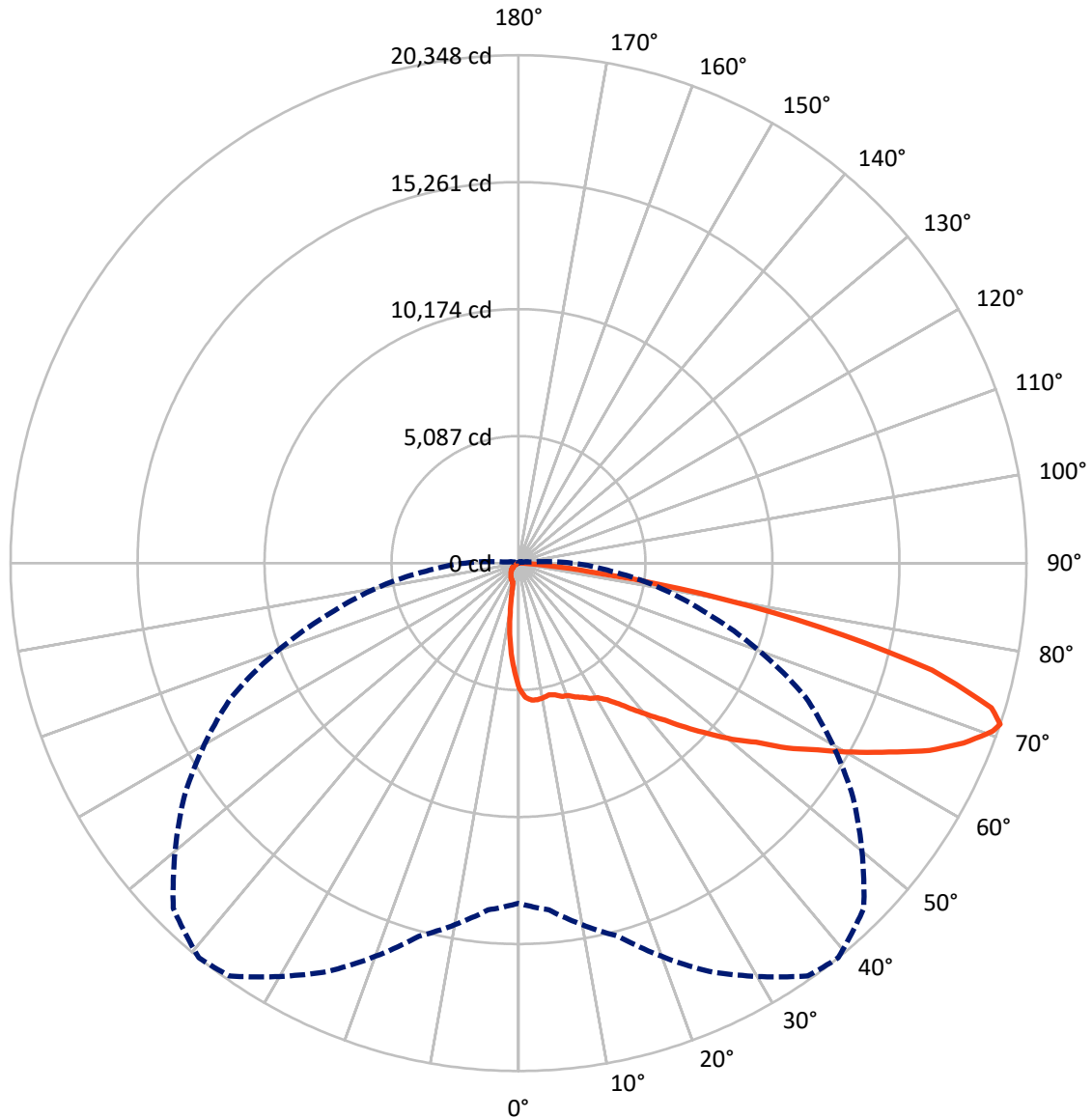
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	2179.3	0.0	2179.3
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	26768.4	0.0	26768.4
	% Fixture	92.5	0.0	92.5
Total	Lumens	28947.7	0.0	28947.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.3	1.5
10°-20°	1036.9	3.6
20°-30°	1664.5	5.8
30°-40°	2548.0	8.8
40°-50°	4089.9	14.1
50°-60°	6007.4	20.8
60°-70°	7566.1	26.1
70°-80°	5049.4	17.4
80°-90°	564.3	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°	28947.7	100.0
0°-180°	28947.7	100.0



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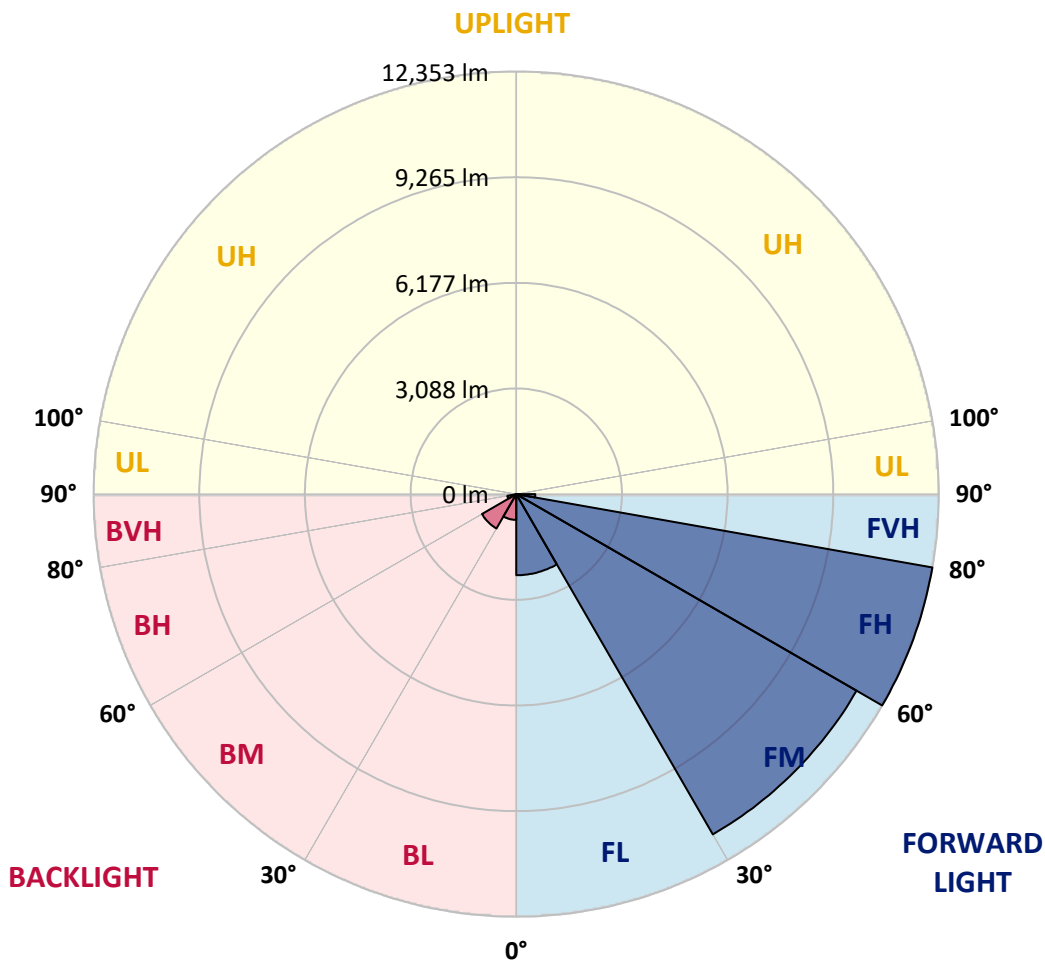
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2370.2	8.2			
FM (30°-60°)	11486.9	39.7			
FH (60°-80°)	12353.2	42.7			G5
FVH (80°-90°)	558.1	1.9			G4/750
BL (0°-30°)	752.4	2.6	B2/1000		
BM (30°-60°)	1158.4	4.0	B2/2500		
BH (60°-80°)	262.3	0.9	B1/500		G1/500
BVH (80°-90°)	6.2	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5038.5	5038.5	5038.5	5038.5	5038.5	5038.5	5038.5	5038.5	5038.5	5038.5	5038.5
2.5°	5429.6	5482.8	5429.6	5406.8	5384.1	5387.9	5327.1	5338.5	5266.4	5171.4	5095.5
5°	5600.5	5672.6	5615.7	5589.1	5585.3	5513.2	5482.8	5410.6	5323.3	5175.2	5084.1
7.5°	5585.3	5570.1	5596.7	5573.9	5524.5	5524.5	5490.4	5387.9	5300.5	5133.5	4977.8
10°	5471.4	5517.0	5494.2	5467.6	5479.0	5482.8	5418.2	5346.1	5319.5	5152.4	4898.1
12.5°	5460.0	5384.1	5467.6	5471.4	5422.0	5418.2	5410.6	5391.7	5308.1	5156.2	4917.0
15°	5422.0	5391.7	5475.2	5479.0	5490.4	5479.0	5490.4	5475.2	5391.7	5304.3	5000.6
17.5°	5452.4	5418.2	5535.9	5592.9	5566.3	5619.5	5600.5	5532.1	5460.0	5357.5	5080.3
20°	5460.0	5509.4	5638.5	5661.2	5744.8	5657.4	5653.6	5581.5	5535.9	5425.8	5129.7
22.5°	5600.5	5623.3	5782.7	5832.1	5835.9	5824.5	5729.6	5646.0	5627.1	5490.4	5141.1
25°	5813.1	5892.9	5965.0	5995.4	6006.8	5953.6	5854.9	5748.6	5703.0	5615.7	5258.8
27.5°	6189.0	6139.7	6204.2	6249.8	6120.7	6139.7	6014.4	5923.2	5858.7	5782.7	5395.5
30°	6523.1	6477.6	6481.4	6473.8	6363.7	6261.2	6227.0	6067.5	5987.8	6018.1	5608.1
32.5°	6823.1	6724.4	6807.9	6769.9	6564.9	6534.5	6508.0	6306.7	6321.9	6462.4	5927.0
35°	7100.3	7066.1	7134.4	7066.1	6929.4	6921.8	6895.2	6720.6	6804.1	7005.4	6473.8
37.5°	7354.7	7366.1	7449.6	7415.4	7426.8	7434.4	7419.2	7233.2	7472.4	7924.2	7111.7
40°	7590.1	7574.9	7779.9	7886.2	7909.0	7992.6	7992.6	7947.0	8315.3	8824.1	7996.4
42.5°	7840.7	7878.6	8144.4	8322.9	8539.3	8611.5	8710.2	8733.0	9302.5	9883.4	8900.0
45°	8250.7	8186.2	8524.1	8945.6	9135.4	9389.8	9541.7	9670.8	10358.1	11155.4	9803.7
47.5°	8770.9	8641.8	8938.0	9549.3	9989.7	10198.6	10472.0	10642.8	11314.9	12138.8	10658.0
50°	9348.1	9215.2	9359.5	10202.4	10715.0	11094.7	11444.0	11660.4	12472.9	13239.9	11280.7
52.5°	10001.1	9879.6	9902.4	10882.0	11637.6	11914.8	12374.2	12697.0	13505.7	13904.4	11500.9
55°	10696.0	10665.6	10593.5	11546.5	12446.4	13069.1	13346.2	13733.5	14565.1	14265.1	11740.1
57.5°	11394.6	11299.7	11402.2	12427.4	13744.9	14117.0	14500.5	14732.1	15153.6	14580.2	11649.0
60°	12051.5	12059.1	12203.4	13384.2	14849.8	15377.6	15723.1	15582.6	15757.3	14716.9	11440.2
62.5°	12605.8	12590.7	12955.2	14458.7	16311.7	16668.6	16926.8	16300.3	16038.3	14849.8	11075.7
65°	13103.2	13274.1	13847.4	15738.3	17686.1	18096.2	17940.5	16979.9	16311.7	14458.7	10050.5
67.5°	13479.1	13733.5	14728.3	16941.9	18946.7	19235.3	19018.9	17496.3	15988.9	12924.8	8186.2
70°	13699.4	13957.5	15358.6	17944.3	19952.9	20161.7	19653.0	17097.6	14105.6	9359.5	5106.9
71°	13631.0	13946.2	15480.1	18050.7	20192.1	20347.8	19558.0	16361.0	12685.6	7836.9	3724.8
72.5°	13012.1	13308.3	14975.1	17974.7	19903.6	19808.6	18817.6	14591.6	9986.0	4996.8	1925.0
75°	9560.7	9879.6	12852.6	15548.5	17765.9	17112.8	15229.5	10240.3	5209.4	1530.2	561.9
77.5°	4761.4	4814.5	7977.4	11288.3	13031.1	12381.8	10206.2	5710.6	1947.8	451.8	281.0
80°	2194.6	2209.8	2992.0	5847.3	7878.6	7415.4	5718.2	2817.3	880.9	239.2	220.2
82.5°	1496.0	1518.8	1803.5	2422.4	3421.0	2885.7	2316.1	1803.5	505.0	144.3	216.4
85°	273.4	250.6	1010.0	1283.4	1321.3	896.1	801.2	1560.5	189.8	83.5	189.8
87.5°	0.0	3.8	140.5	524.0	470.8	208.8	273.4	379.7	19.0	26.6	34.2
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°	5038.5	5038.5	5038.5	5038.5	5038.5	5038.5	5038.5	5038.5	5038.5	5038.5	5038.5
2.5°	5030.9	4989.2	4848.7	4693.0	4552.5	4442.4	4301.9	4237.4	4134.9	4077.9	4074.1
5°	4958.8	4844.9	4601.9	4339.9	4047.5	3804.5	3535.0	3383.1	3208.4	3155.3	3143.9
7.5°	4837.3	4674.0	4317.1	3948.8	3500.8	3071.7	2741.4	2388.3	2171.8	2080.7	2046.6
10°	4761.4	4563.9	4077.9	3527.4	2900.9	2297.1	1833.9	1458.0	1260.6	1165.7	1142.9
12.5°	4761.4	4548.7	3884.3	3124.9	2293.4	1571.9	1135.3	918.9	854.3	831.5	831.5
15°	4750.0	4518.4	3698.2	2711.0	1697.2	1055.5	846.7	801.2	793.6	789.8	786.0
17.5°	4806.9	4465.2	3508.4	2266.8	1199.8	831.5	778.4	770.8	763.2	763.2	755.6
20°	4848.7	4434.8	3280.6	1796.0	896.1	770.8	748.0	736.6	732.8	729.0	736.6
22.5°	4814.5	4389.3	2999.6	1344.1	782.2	732.8	717.6	706.2	698.6	698.6	702.4
25°	4879.1	4347.5	2718.6	1013.8	732.8	698.6	683.4	675.9	672.1	668.3	660.7
27.5°	4966.4	4366.5	2384.5	816.3	691.0	664.5	649.3	641.7	637.9	630.3	637.9
30°	5072.7	4362.7	2016.2	713.8	653.1	626.5	611.3	607.5	599.9	596.1	599.9
32.5°	5255.0	4461.4	1636.5	660.7	611.3	588.5	573.3	569.5	565.7	561.9	558.2
35°	5646.0	4582.9	1279.6	618.9	573.3	546.8	535.4	527.8	524.0	520.2	516.4
37.5°	6128.3	4852.5	975.8	580.9	535.4	508.8	497.4	493.6	478.4	474.6	470.8
40°	6732.0	5141.1	751.8	539.2	501.2	474.6	463.2	451.8	432.9	425.3	417.7
42.5°	7483.8	5422.0	618.9	501.2	463.2	444.2	425.3	406.3	391.1	375.9	368.3
45°	8235.6	5748.6	543.0	467.0	432.9	410.1	394.9	368.3	341.7	318.9	315.1
47.5°	8862.1	5866.3	497.4	429.1	402.5	383.5	360.7	326.5	288.6	265.8	262.0
50°	9329.1	5797.9	451.8	391.1	368.3	349.3	318.9	277.2	239.2	216.4	208.8
52.5°	9420.2	5498.0	410.1	360.7	334.1	311.3	277.2	231.6	189.8	167.1	163.3
55°	9355.7	5000.6	375.9	334.1	303.8	269.6	231.6	186.1	148.1	125.3	121.5
57.5°	9222.8	4412.0	337.9	300.0	265.8	231.6	189.8	151.9	110.1	87.3	87.3
60°	8770.9	3610.9	300.0	262.0	227.8	197.4	155.7	110.1	75.9	57.0	53.2
62.5°	8140.6	2775.6	262.0	224.0	197.4	163.3	121.5	79.7	45.6	30.4	30.4
65°	6990.2	1944.0	220.2	186.1	163.3	132.9	91.1	49.4	26.6	11.4	11.4
67.5°	5311.9	1203.6	182.3	155.7	140.5	106.3	64.5	30.4	11.4	3.8	0.0
70°	3048.9	626.5	144.3	125.3	110.1	79.7	45.6	15.2	7.6	0.0	0.0
71°	2130.1	463.2	129.1	110.1	98.7	72.1	38.0	11.4	3.8	0.0	0.0
72.5°	1066.9	307.6	110.1	91.1	79.7	57.0	30.4	11.4	3.8	0.0	0.0
75°	379.7	197.4	75.9	60.8	57.0	41.8	19.0	7.6	3.8	0.0	0.0
77.5°	262.0	159.5	53.2	38.0	38.0	26.6	11.4	3.8	3.8	0.0	0.0
80°	239.2	87.3	34.2	22.8	19.0	15.2	7.6	3.8	0.0	0.0	0.0
82.5°	239.2	64.5	19.0	15.2	11.4	7.6	3.8	0.0	0.0	0.0	0.0
85°	167.1	34.2	11.4	11.4	7.6	3.8	0.0	0.0	0.0	0.0	0.0
87.5°	26.6	11.4	7.6	3.8	3.8	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)