

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: P484426

Luminaire Tested: **IFLD-L-SA8A-740-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484426
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-740-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

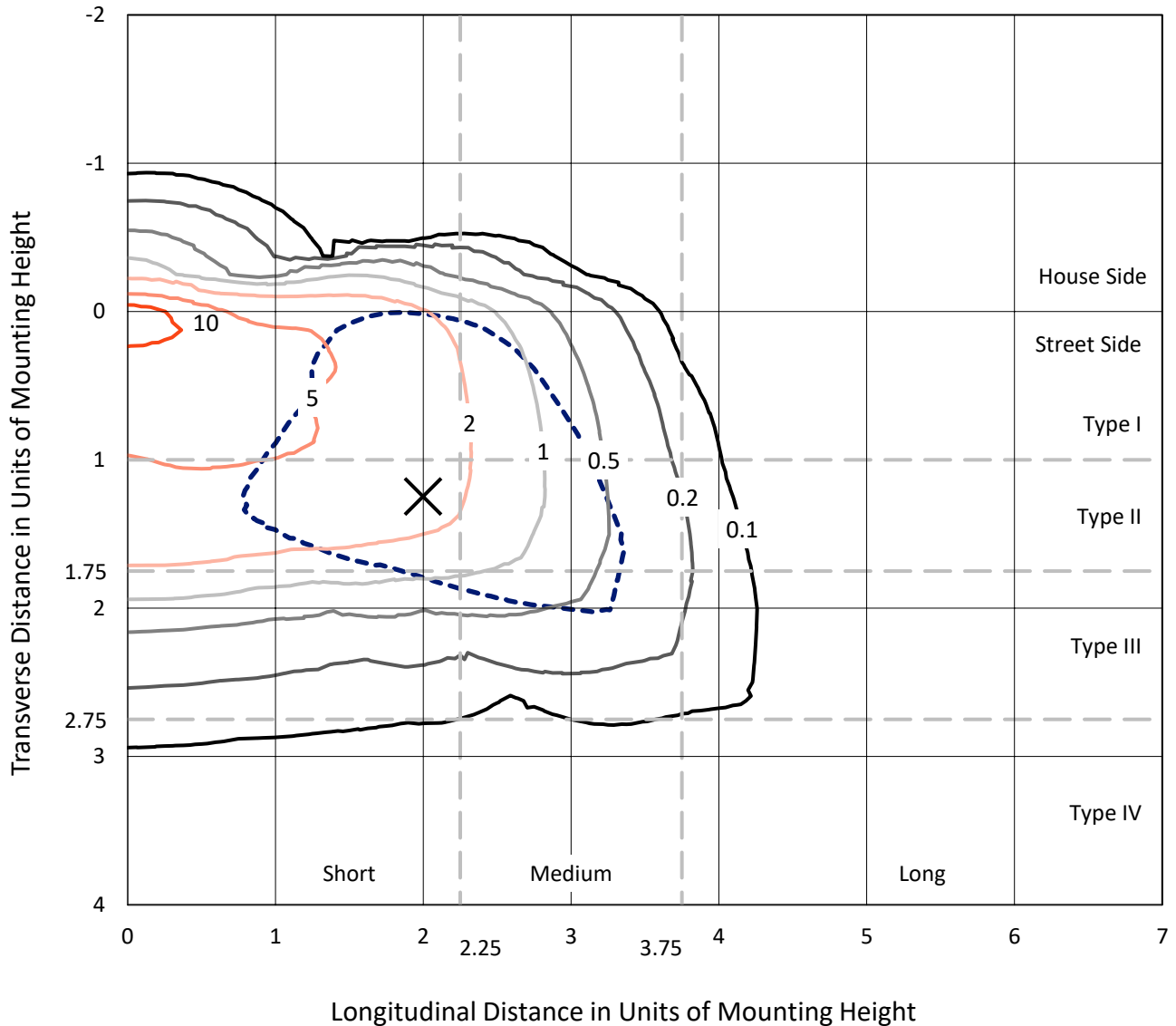
Lumens per Lamp: N/A
Luminaire Lumens: 28648.3 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 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

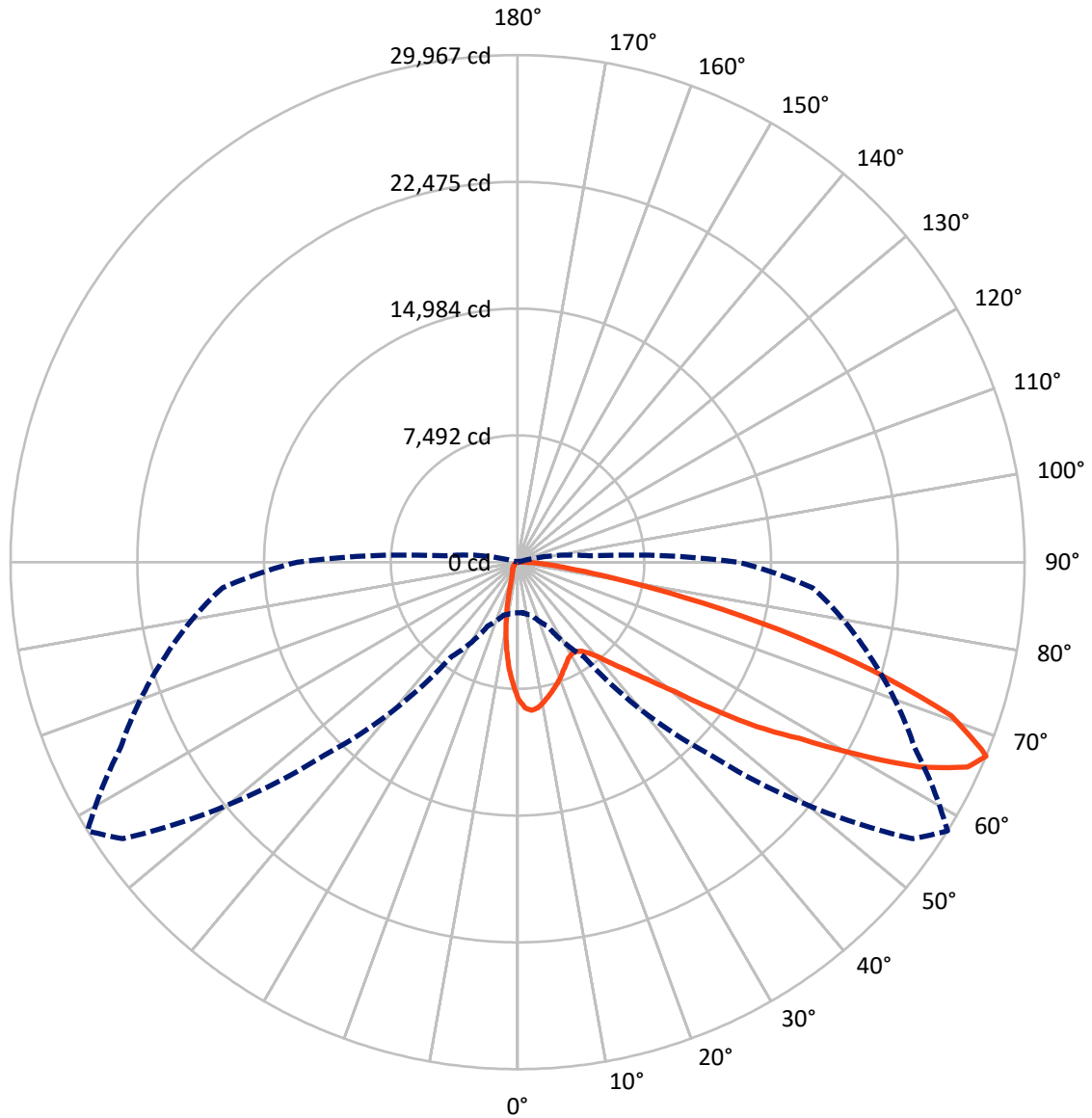
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 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
House Side	Lumens	2368.0	0.0	2368.0
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	26280.4	0.0	26280.4
	% Fixture	91.7	0.0	91.7
Total	Lumens	28648.3	0.0	28648.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	644.0	2.2
10°-20°	1335.8	4.7
20°-30°	1772.3	6.2
30°-40°	2455.8	8.6
40°-50°	4007.2	14.0
50°-60°	7043.4	24.6
60°-70°	7801.1	27.2
70°-80°	3232.8	11.3
80°-90°	355.9	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°	28648.3	100.0
0°-180°	28648.3	100.0



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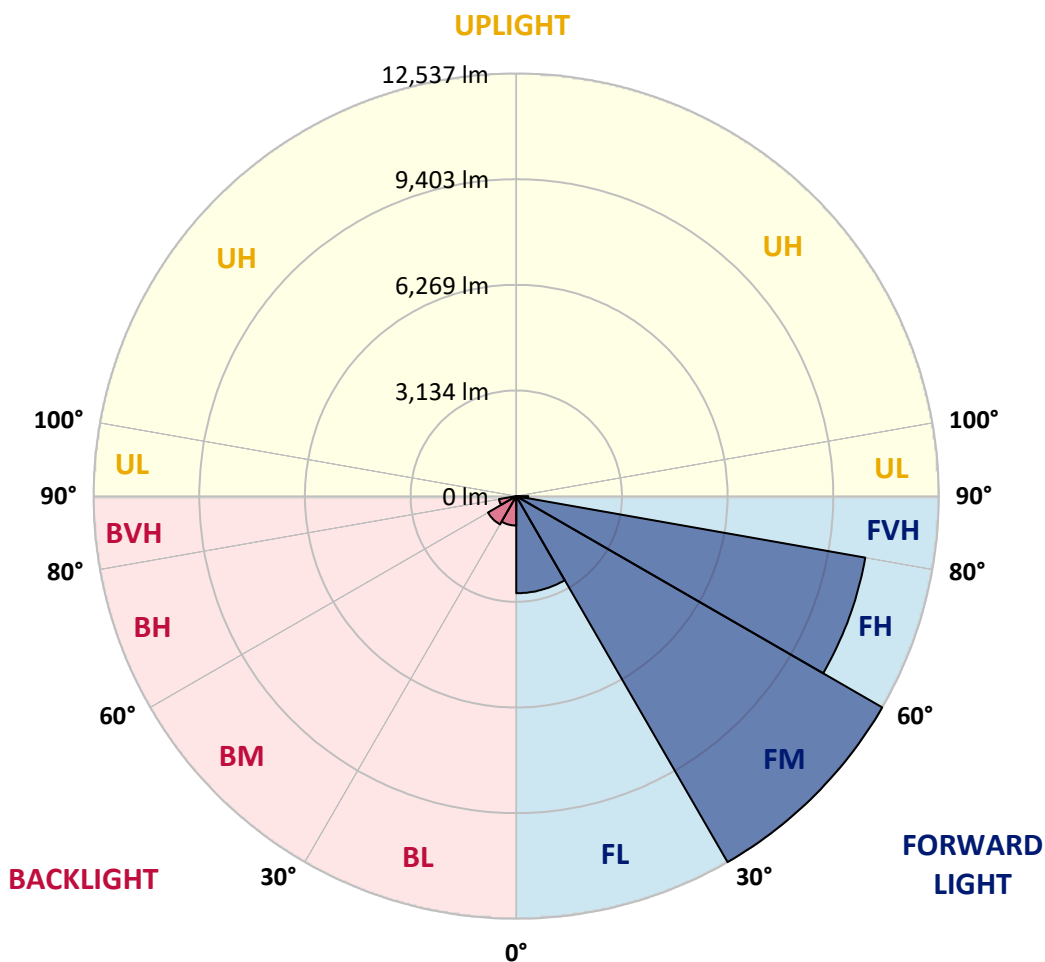
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2880.0	10.1			
FM (30°-60°)	12537.1	43.8			
FH (60°-80°)	10513.3	36.7			G4/12000
FVH (80°-90°)	350.0	1.2			G3/500
BL (0°-30°)	872.1	3.0	B2/1000		
BM (30°-60°)	969.4	3.4	B1/1000		
BH (60°-80°)	520.6	1.8	B2/1000		G2/1000
BVH (80°-90°)	5.8	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°	8116.5	8116.5	8116.5	8116.5	8116.5	8116.5	8116.5	8116.5	8116.5	8116.5	8116.5
2.5°	8831.5	8861.9	8888.6	8839.1	8880.9	8820.1	8664.2	8629.9	8603.3	8371.3	8238.2
5°	8827.7	8793.5	8820.1	8842.9	8785.9	8831.5	8793.5	8797.3	8694.6	8485.4	8112.7
7.5°	8238.2	8223.0	8238.2	8348.5	8474.0	8572.9	8629.9	8687.0	8618.5	8306.6	7945.3
10°	7443.3	7519.3	7561.2	7758.9	7952.9	8135.5	8314.2	8420.7	8401.7	8276.2	7762.7
12.5°	6888.0	6865.1	7017.3	7146.6	7340.6	7709.5	8021.4	8120.3	8234.4	8059.4	7523.1
15°	6374.5	6313.6	6404.9	6629.3	6960.2	7253.1	7690.5	7838.8	7983.3	8029.0	7393.8
17.5°	5883.9	5914.3	6009.4	6211.0	6522.8	6933.6	7344.4	7557.4	7903.5	7842.6	7199.8
20°	5648.1	5712.7	5746.9	5849.6	6066.4	6477.2	7089.5	7260.7	7629.6	7838.8	7009.7
22.5°	5659.5	5659.5	5579.6	5640.4	5838.2	6157.7	6743.4	6933.6	7519.3	7641.0	6838.5
25°	5781.2	5705.1	5708.9	5636.6	5720.3	5895.3	6431.6	6663.6	7294.9	7660.1	6747.2
27.5°	5872.5	5857.2	5834.4	5815.4	5708.9	5735.5	6226.2	6416.3	7207.4	7637.2	6606.5
30°	6203.4	6134.9	6112.1	6070.2	5929.5	5800.2	6062.6	6302.2	7139.0	7690.5	6526.6
32.5°	6481.0	6492.4	6511.4	6389.7	6268.0	5948.5	6108.3	6298.4	7089.5	7812.2	6606.5
35°	6830.9	6880.4	6888.0	6849.9	6720.6	6404.9	6298.4	6462.0	7173.2	8029.0	6614.1
37.5°	7363.4	7310.1	7454.7	7469.9	7378.6	6960.2	6739.6	6804.3	7420.4	8375.1	6903.2
40°	7709.5	7774.2	8044.2	8211.5	8055.6	7675.3	7378.6	7367.2	7778.0	8919.0	7260.7
42.5°	8093.6	8238.2	8534.8	8896.2	8877.1	8523.4	8223.0	8173.5	8413.1	9706.3	7827.4
45°	8618.5	8747.8	9162.4	9706.3	10003.0	9702.5	9249.9	9151.0	9185.2	10778.8	8793.5
47.5°	9489.5	9455.3	10052.4	10588.7	11075.5	10843.5	10649.5	10360.5	10333.8	12041.6	10128.5
50°	10474.6	10467.0	10999.4	11608.0	12170.9	12623.5	12300.2	11984.5	11992.1	13756.9	11699.3
52.5°	11410.2	11558.5	12132.9	12737.6	13703.7	14190.5	14502.4	14376.9	13772.1	15289.7	13380.4
55°	11904.7	12034.0	12604.5	13646.6	15171.8	16423.1	17267.5	17161.0	15993.3	17016.4	15038.7
57.5°	11436.8	11524.3	12296.4	13661.8	16198.7	18990.4	19800.5	19667.4	18290.6	18336.2	17043.0
60°	9478.1	9615.0	10763.6	12364.9	15799.3	20968.2	23288.2	23086.7	20382.4	20005.9	18332.4
62.5°	6564.7	6656.0	7599.2	9592.2	13905.2	21656.6	26582.0	26692.3	22588.4	21306.7	18716.5
65°	4252.2	4244.6	4784.7	6134.9	9854.6	19572.3	28529.3	29213.9	24718.3	21504.4	18598.6
67°	3004.7	2993.3	3248.1	4160.9	6823.3	16126.4	28495.1	29967.0	25874.6	21561.5	17507.1
67.5°	2772.7	2761.3	3004.7	3826.2	6157.7	14996.8	28069.1	29579.1	26281.5	21481.6	17027.8
70°	2152.7	2122.3	2213.6	2635.8	3586.6	9698.7	24022.3	27171.5	25437.2	19488.6	13597.2
72.5°	1555.6	1589.8	1734.4	2164.1	2814.5	5218.3	18309.6	21972.3	21245.8	14688.7	8641.3
75°	1084.0	1114.4	1346.4	1764.8	2582.5	3164.4	12380.1	15936.3	14799.0	8108.9	3681.7
77.5°	566.7	604.7	859.6	1411.1	2346.7	2449.4	7397.6	10105.6	7842.6	2886.8	1015.5
80°	262.4	281.5	429.8	1000.3	1962.6	2152.7	4313.1	5621.4	3137.8	646.6	349.9
82.5°	114.1	125.5	197.8	574.3	1392.0	1882.7	2670.0	2947.6	1137.2	209.2	216.8
85°	22.8	26.6	76.1	304.3	673.2	1141.0	1875.1	1749.6	570.5	102.7	171.2
87.5°	0.0	0.0	19.0	87.5	182.6	338.5	794.9	794.9	175.0	53.2	64.7
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°	8116.5	8116.5	8116.5	8116.5	8116.5	8116.5	8116.5	8116.5	8116.5	8116.5	8116.5
2.5°	8120.3	7983.3	7682.9	7405.2	7207.4	6983.0	6686.4	6553.3	6503.8	6435.4	6332.7
5°	7907.3	7739.9	7226.5	6709.2	6142.5	5712.7	5256.3	4990.1	4788.5	4663.0	4621.1
7.5°	7606.8	7264.5	6572.3	5743.1	5009.1	4370.1	3677.9	3210.1	2909.6	2787.9	2673.8
10°	7367.2	6922.2	5868.7	4837.9	3860.5	2924.8	2145.1	1734.4	1422.5	1304.6	1289.4
12.5°	7055.3	6522.8	5210.7	3913.7	2685.2	1742.0	1186.7	1030.7	943.2	928.0	916.6
15°	6796.7	6161.5	4586.9	3031.3	1738.2	1087.8	924.2	886.2	863.4	855.8	859.6
17.5°	6621.7	5773.6	3947.9	2206.0	1144.8	890.0	852.0	829.1	817.7	813.9	802.5
20°	6275.6	5446.5	3316.6	1544.2	893.8	821.5	791.1	772.1	760.7	756.9	753.1
22.5°	6077.8	5031.9	2685.2	1076.4	794.9	745.5	722.6	707.4	688.4	677.0	673.2
25°	5880.1	4727.6	2122.3	836.7	722.6	688.4	654.2	635.2	604.7	589.5	585.7
27.5°	5648.1	4427.2	1635.5	726.4	650.4	616.2	581.9	551.5	513.5	498.2	490.6
30°	5514.9	4134.3	1232.3	650.4	597.1	551.5	509.7	471.6	429.8	403.2	395.6
32.5°	5446.5	3868.1	924.2	593.3	540.1	490.6	437.4	391.8	353.7	330.9	327.1
35°	5362.8	3609.4	726.4	540.1	486.8	433.6	380.3	334.7	296.7	277.6	270.0
37.5°	5450.3	3457.3	604.7	498.2	445.0	384.1	327.1	281.5	251.0	232.0	228.2
40°	5689.9	3331.8	524.9	460.2	403.2	338.5	285.3	239.6	213.0	197.8	190.2
42.5°	6058.8	3331.8	475.4	422.2	365.1	296.7	243.4	209.2	182.6	167.3	163.5
45°	6728.2	3434.5	433.6	384.1	319.5	254.8	209.2	175.0	148.3	133.1	129.3
47.5°	7667.7	3670.3	399.4	349.9	285.3	224.4	182.6	148.3	121.7	106.5	102.7
50°	8930.4	4206.6	365.1	308.1	254.8	194.0	152.1	117.9	95.1	79.9	76.1
52.5°	10505.0	4967.2	330.9	285.3	216.8	163.5	121.7	95.1	72.3	60.9	57.1
55°	12170.9	5899.1	289.1	254.8	186.4	136.9	98.9	72.3	53.2	45.6	41.8
57.5°	13848.2	6617.9	254.8	220.6	152.1	110.3	79.9	57.1	38.0	30.4	26.6
60°	14738.2	6686.4	220.6	182.6	121.7	87.5	60.9	41.8	26.6	19.0	15.2
62.5°	14875.1	6077.8	190.2	148.3	98.9	68.5	41.8	30.4	15.2	7.6	7.6
65°	14171.5	5066.1	163.5	117.9	76.1	49.4	30.4	19.0	7.6	3.8	0.0
67°	13030.5	4244.6	140.7	98.9	60.9	38.0	22.8	11.4	3.8	0.0	0.0
67.5°	12589.3	4016.4	133.1	91.3	57.1	34.2	19.0	11.4	3.8	0.0	0.0
70°	9770.9	2867.8	98.9	64.7	41.8	26.6	15.2	7.6	0.0	0.0	0.0
72.5°	5986.6	1677.3	76.1	45.6	30.4	19.0	11.4	3.8	0.0	0.0	0.0
75°	2510.2	578.1	64.7	34.2	22.8	11.4	7.6	3.8	0.0	0.0	0.0
77.5°	654.2	216.8	45.6	22.8	15.2	11.4	7.6	3.8	0.0	0.0	0.0
80°	266.2	98.9	30.4	15.2	15.2	11.4	7.6	3.8	0.0	0.0	0.0
82.5°	175.0	45.6	19.0	15.2	11.4	7.6	3.8	0.0	0.0	0.0	0.0
85°	133.1	26.6	11.4	11.4	7.6	3.8	0.0	0.0	0.0	0.0	0.0
87.5°	57.1	15.2	11.4	7.6	7.6	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)