

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: P484037

Luminaire Tested: **IFLD-L-SA8B-740-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484037
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-740-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

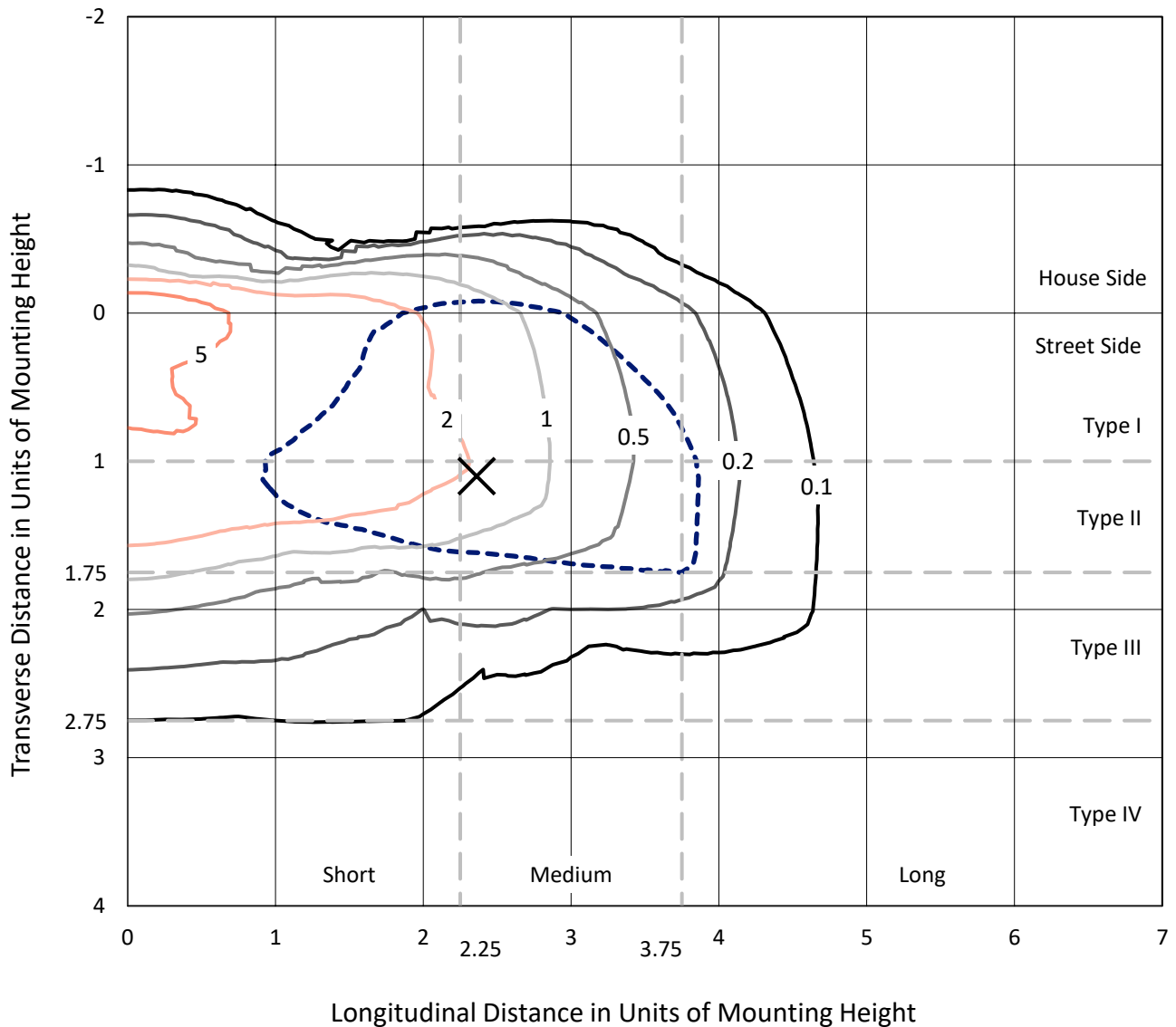
Lumens per Lamp: N/A
Luminaire Lumens: 33497.1 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 320
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

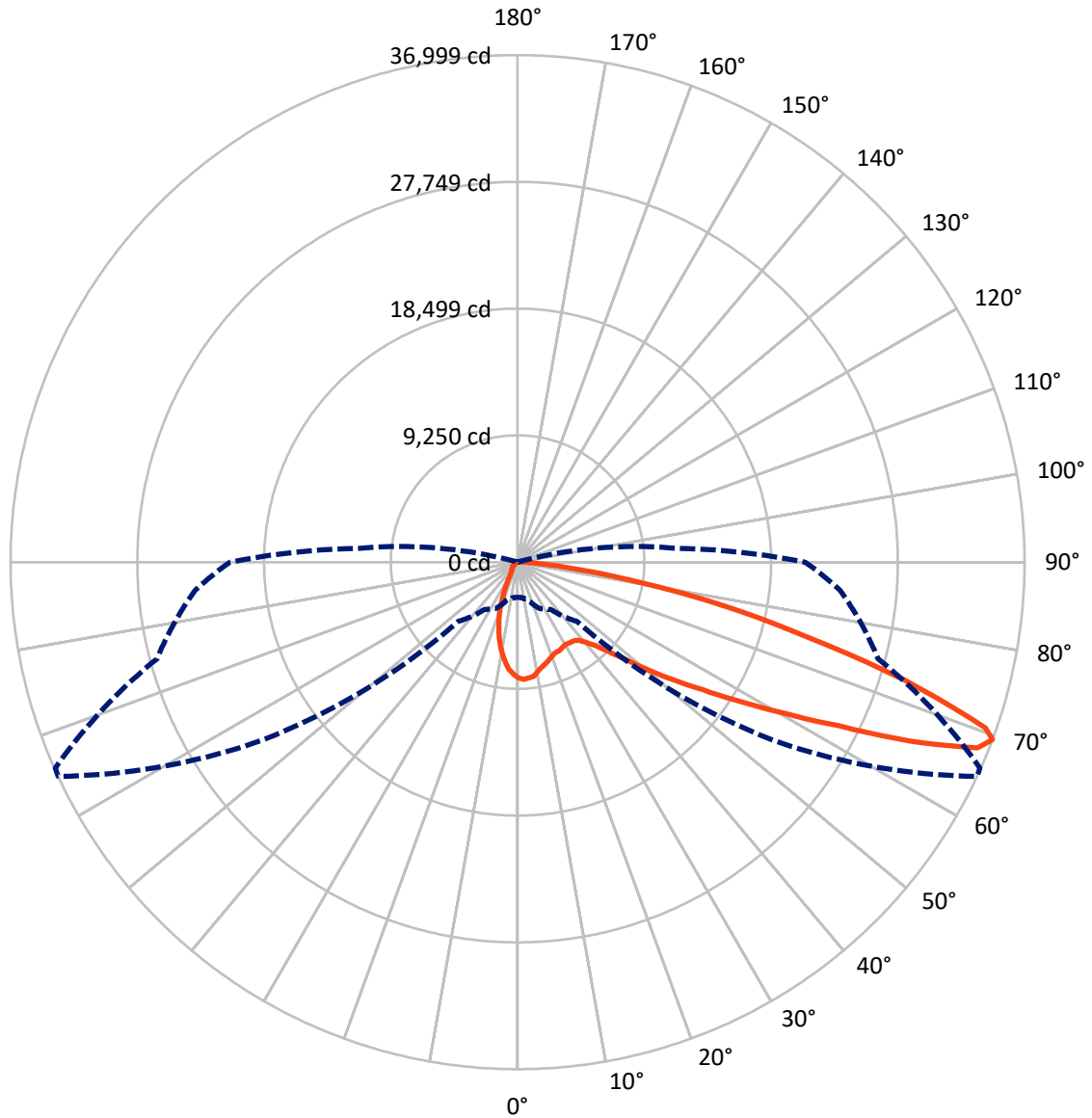
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4063.4	0.0	4063.4
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	29433.7	0.0	29433.7
	% Fixture	87.9	0.0	87.9
Total	Lumens	33497.1	0.0	33497.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	691.1	2.1
10°-20°	1512.1	4.5
20°-30°	2105.2	6.3
30°-40°	2983.3	8.9
40°-50°	4701.6	14.0
50°-60°	7629.1	22.8
60°-70°	8520.1	25.4
70°-80°	4797.8	14.3
80°-90°	556.7	1.7
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°	33497.1	100.0
0°-180°	33497.1	100.0



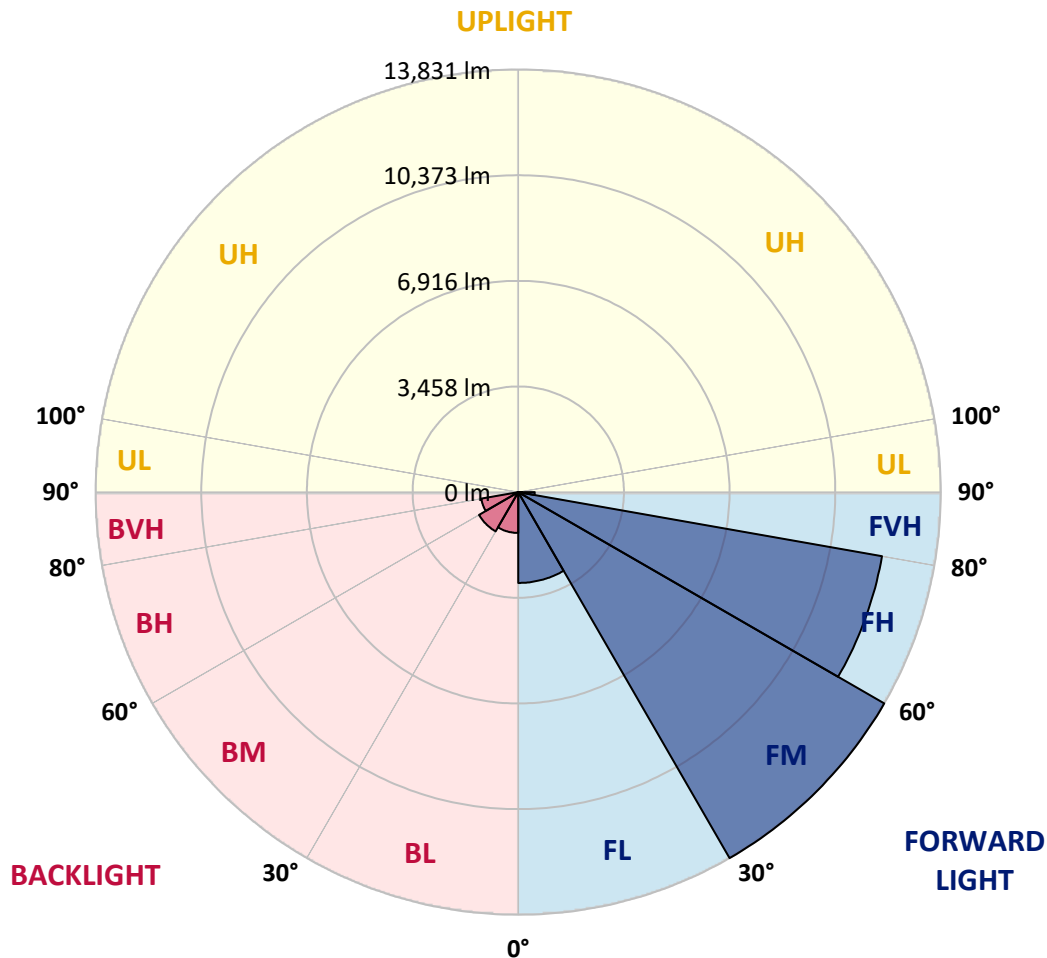
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2972.5	8.9			
FM (30°-60°)	13831.3	41.3			
FH (60°-80°)	12088.5	36.1			G5
FVH (80°-90°)	541.4	1.6			G4/750
BL (0°-30°)	1335.9	4.0	B3/2500		
BM (30°-60°)	1482.7	4.4	B2/2500		
BH (60°-80°)	1229.4	3.7	B3/2500		G3/2500
BVH (80°-90°)	15.4	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8445.4	8445.4	8445.4	8445.4	8445.4	8445.4	8445.4	8445.4	8445.4	8445.4	8445.4
2.5°	8133.6	8196.9	8215.0	8278.2	8309.8	8445.4	8522.2	8567.4	8544.8	8594.5	8599.0
5°	7555.2	7519.1	7614.0	7681.8	7826.4	8061.3	8300.8	8486.1	8571.9	8653.3	8639.7
7.5°	6936.2	6918.1	7013.0	7166.6	7297.7	7582.3	7966.4	8422.8	8404.7	8603.6	8662.3
10°	6511.4	6529.5	6561.1	6714.8	6909.1	7198.3	7677.2	8102.0	8196.9	8617.1	8734.6
12.5°	6122.8	6154.4	6213.2	6371.3	6597.3	6895.5	7360.9	7858.0	8002.6	8540.3	8775.3
15°	5996.3	5924.0	6041.5	6159.0	6393.9	6660.5	7053.7	7672.7	7736.0	8449.9	8843.1
17.5°	5892.4	5847.2	5901.4	5996.3	6244.8	6461.7	6832.2	7473.9	7591.4	8413.8	8834.0
20°	5924.0	5883.3	5905.9	5978.2	6091.2	6294.5	6637.9	7284.1	7410.6	8246.6	8820.5
22.5°	6014.4	6046.0	6005.3	6023.4	6059.5	6163.5	6534.0	7148.5	7257.0	8215.0	8897.3
25°	6421.0	6366.8	6312.6	6290.0	6077.6	6122.8	6502.4	7139.5	7216.3	8102.0	8834.0
27.5°	6845.8	6800.6	6778.0	6647.0	6357.8	6222.2	6506.9	7013.0	7116.9	8056.8	8757.2
30°	7360.9	7419.7	7329.3	7171.1	6769.0	6434.6	6556.6	6949.7	7094.3	7885.1	8707.5
32.5°	7903.2	7934.8	7980.0	7862.5	7342.9	6755.4	6705.7	7008.5	7017.5	7885.1	8594.5
35°	8517.7	8472.5	8590.0	8599.0	8142.7	7324.8	6990.4	7049.1	7144.0	7848.9	8553.9
37.5°	9046.4	9123.2	9258.8	9475.7	9005.7	8129.1	7433.2	7238.9	7279.6	8016.1	8585.5
40°	9624.8	9701.6	10008.9	10225.8	9959.2	9032.8	8106.5	7681.8	7713.4	8264.7	8748.2
42.5°	10261.9	10411.0	10777.0	11156.6	11084.3	10180.6	8974.1	8332.4	8318.9	8883.7	9082.5
45°	11125.0	11323.8	11721.5	12159.8	12223.0	11495.5	10130.9	9304.0	9349.1	9692.6	9773.9
47.5°	12327.0	12317.9	12706.5	13194.5	13560.6	12860.2	11513.6	10609.9	10605.3	10971.4	10799.6
50°	13488.3	13492.8	13596.7	14161.5	15110.5	14753.5	13226.2	12345.0	12295.3	12476.1	12200.4
52.5°	14026.0	13962.7	13885.9	14568.2	16303.4	17139.3	15395.1	14310.7	14270.0	14161.5	14089.2
55°	13461.1	13483.7	13479.2	14188.6	16931.5	19656.2	18178.6	16475.1	16407.3	16068.4	16167.8
57.5°	11649.2	11576.9	11735.0	12842.1	16213.0	21373.3	22159.6	19204.4	19028.2	17903.0	17677.1
60°	8671.3	8693.9	8825.0	10130.9	14428.1	21734.8	25968.8	22408.1	21649.0	19195.3	18883.6
62.5°	6055.0	6009.8	6059.5	6791.6	10316.1	20288.9	28544.5	26303.2	25571.2	20663.9	20483.2
65°	4333.4	4274.7	4473.5	4920.8	6195.1	15512.6	28910.5	31490.7	30835.5	23009.1	22575.3
67.5°	3117.9	3108.9	3339.3	4152.7	4401.2	8933.4	26199.3	36190.1	35792.4	25792.6	23849.6
69°	2580.2	2584.7	2806.1	3718.9	4202.4	6100.2	22543.7	36998.9	36926.6	27229.6	23610.1
70°	2250.3	2268.4	2525.9	3461.3	4121.0	5015.7	19434.8	36203.6	36131.3	27509.7	22819.3
72.5°	1387.2	1400.8	1739.7	2774.5	3917.7	4093.9	11622.0	29619.9	29868.5	26226.4	19660.8
75°	664.2	668.8	912.8	2006.3	3777.6	3881.5	6226.7	21856.8	22381.0	21174.5	15363.5
77.5°	352.5	352.5	438.3	1066.4	3059.1	3651.1	3696.3	15417.7	15851.5	13388.8	8734.6
80°	176.2	180.7	266.6	555.8	1897.8	3578.8	2887.4	9195.5	9430.5	5463.1	2720.2
82.5°	67.8	72.3	126.5	334.4	985.1	3023.0	2535.0	4523.2	4464.5	1278.8	664.2
85°	9.0	9.0	45.2	198.8	420.2	1333.0	2092.1	1888.8	1825.5	280.2	320.8
87.5°	0.0	0.0	9.0	58.7	126.5	388.6	808.8	519.6	578.4	76.8	158.2
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°	8445.4	8445.4	8445.4	8445.4	8445.4	8445.4	8445.4	8445.4	8445.4	8445.4	8445.4
2.5°	8576.5	8481.6	8337.0	8196.9	8047.8	7867.0	7668.2	7595.9	7469.4	7460.3	7532.6
5°	8567.4	8413.8	8160.7	7862.5	7437.7	7116.9	6769.0	6515.9	6321.6	6195.1	6226.7
7.5°	8612.6	8427.3	7989.0	7347.4	6800.6	6163.5	5625.8	5255.2	4916.3	4749.1	4731.1
10°	8540.3	8291.8	7650.1	6750.9	5946.6	5056.4	4270.2	3773.1	3267.0	3081.7	3090.8
12.5°	8581.0	8233.0	7284.1	6136.4	5029.3	3872.5	2932.6	2254.8	1780.4	1626.7	1608.6
15°	8608.1	8106.5	6931.7	5399.8	4012.6	2638.9	1699.0	1278.8	1129.7	1102.6	1098.0
17.5°	8504.2	7952.9	6434.6	4672.3	2973.3	1604.1	1129.7	1043.8	1016.7	998.6	989.6
20°	8499.6	7862.5	6005.3	3926.7	1983.7	1093.5	976.0	944.4	903.7	890.2	890.2
22.5°	8422.8	7672.7	5490.2	3108.9	1265.2	939.9	876.6	826.9	781.7	763.7	759.1
25°	8400.2	7451.3	5006.7	2336.2	962.5	840.5	777.2	704.9	650.7	623.6	610.0
27.5°	8337.0	7261.5	4518.7	1644.8	840.5	750.1	668.8	591.9	528.7	488.0	483.5
30°	8111.0	7062.7	3976.4	1138.7	763.7	664.2	573.9	483.5	420.2	393.1	384.1
32.5°	8016.1	6877.4	3384.5	876.6	695.9	587.4	483.5	402.2	352.5	325.3	320.8
35°	7903.2	6606.3	2810.6	763.7	632.6	510.6	406.7	338.9	298.2	275.6	275.6
37.5°	7916.7	6389.4	2272.9	691.4	564.8	438.3	347.9	289.2	253.0	230.5	230.5
40°	7876.1	6217.7	1766.8	628.1	501.6	375.1	293.7	244.0	212.4	189.8	185.3
42.5°	8061.3	6172.5	1333.0	573.9	438.3	320.8	253.0	207.9	176.2	149.1	149.1
45°	8373.1	6244.8	1039.3	524.2	375.1	275.6	216.9	171.7	140.1	122.0	117.5
47.5°	9204.5	6529.5	813.4	483.5	320.8	239.5	180.7	140.1	113.0	94.9	90.4
50°	10411.0	7166.6	691.4	424.8	271.1	203.3	149.1	108.4	90.4	72.3	67.8
52.5°	12128.1	8237.5	628.1	375.1	225.9	167.2	117.5	85.9	67.8	54.2	49.7
55°	13998.9	9575.1	569.4	316.3	189.8	135.6	94.9	67.8	49.7	36.1	31.6
57.5°	15458.4	10731.9	519.6	262.1	153.6	108.4	72.3	49.7	36.1	22.6	18.1
60°	17053.5	11545.2	456.4	207.9	126.5	81.3	54.2	36.1	27.1	13.6	13.6
62.5°	18698.3	12498.7	375.1	162.7	99.4	63.3	40.7	27.1	18.1	4.5	4.5
65°	20984.7	13244.2	289.2	126.5	76.8	45.2	31.6	22.6	9.0	0.0	0.0
67.5°	21630.9	12878.2	212.4	99.4	54.2	31.6	22.6	13.6	4.5	0.0	0.0
69°	20984.7	11599.4	185.3	85.9	45.2	27.1	18.1	9.0	4.5	0.0	0.0
70°	19805.4	10605.3	162.7	72.3	40.7	27.1	13.6	9.0	4.5	0.0	0.0
72.5°	16565.5	8133.6	126.5	54.2	31.6	22.6	13.6	9.0	0.0	0.0	0.0
75°	12150.7	5024.8	94.9	40.7	27.1	18.1	13.6	9.0	0.0	0.0	0.0
77.5°	6511.4	1834.6	67.8	27.1	18.1	13.6	13.6	9.0	0.0	0.0	0.0
80°	1784.9	542.2	49.7	18.1	13.6	9.0	9.0	4.5	0.0	0.0	0.0
82.5°	488.0	140.1	31.6	18.1	13.6	9.0	4.5	0.0	0.0	0.0	0.0
85°	262.1	54.2	18.1	13.6	9.0	4.5	0.0	0.0	0.0	0.0	0.0
87.5°	135.6	18.1	13.6	9.0	9.0	4.5	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)