

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: P484465

Luminaire Tested: **IFLD-L-SA8A-750-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484465
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-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

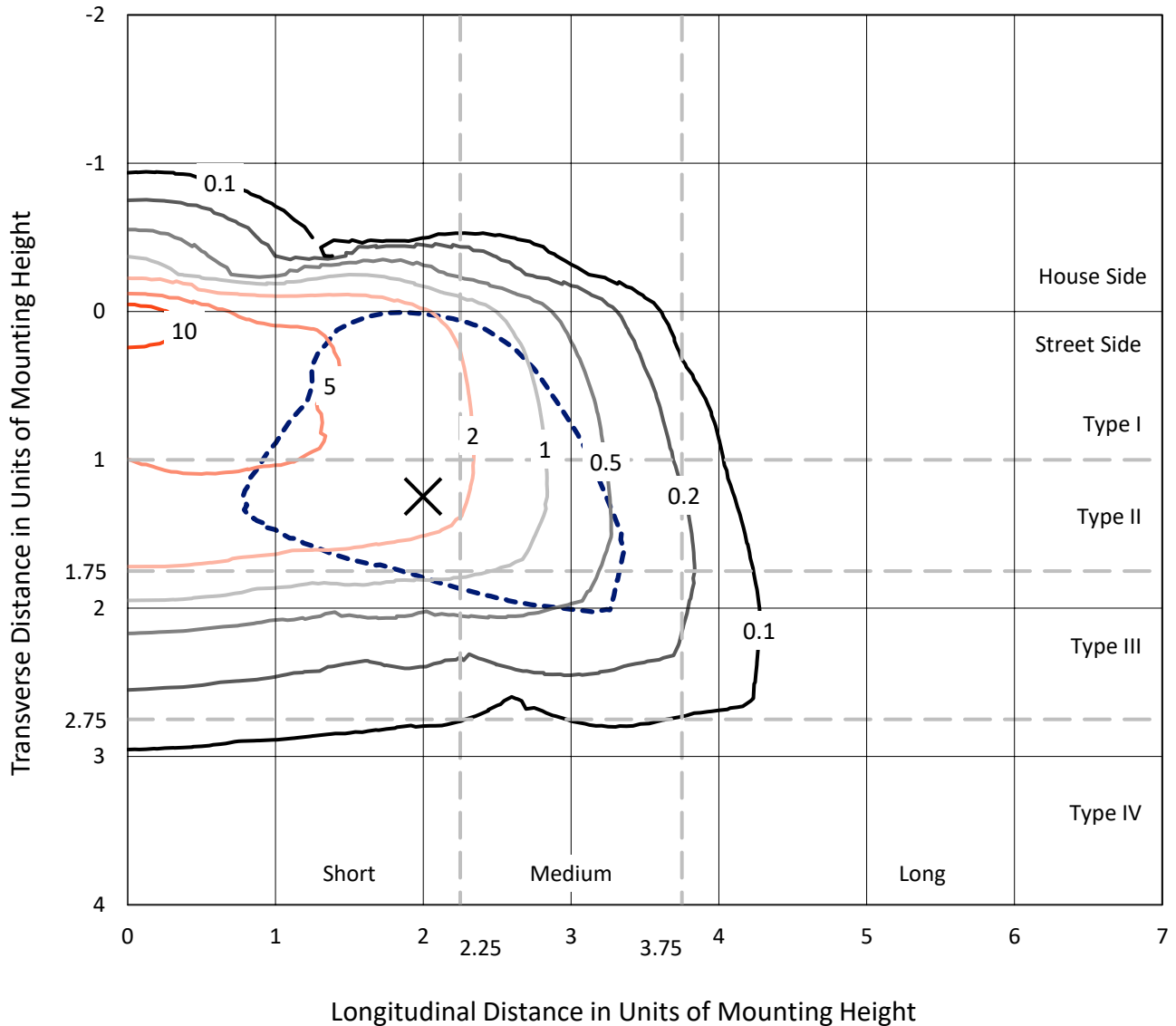
Lumens per Lamp: N/A
Luminaire Lumens: 29304.4 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

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

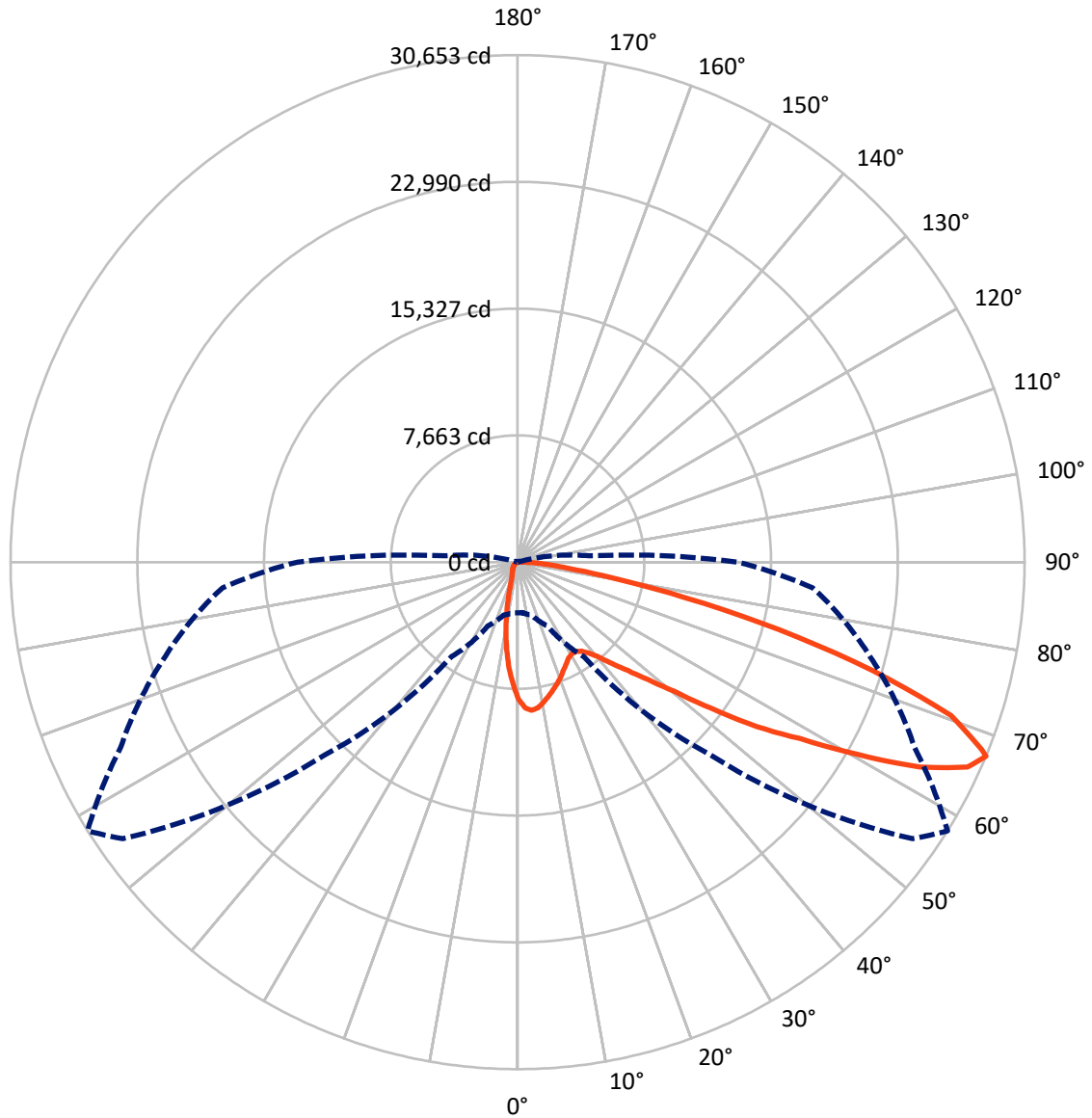
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 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	2422.2	0.0	2422.2
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	26882.2	0.0	26882.2
	% Fixture	91.7	0.0	91.7
Total	Lumens	29304.4	0.0	29304.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	658.8	2.2
10°-20°	1366.4	4.7
20°-30°	1812.9	6.2
30°-40°	2512.1	8.6
40°-50°	4099.0	14.0
50°-60°	7204.7	24.6
60°-70°	7979.8	27.2
70°-80°	3306.8	11.3
80°-90°	364.0	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°	29304.4	100.0
0°-180°	29304.4	100.0

Coefficient of Utilization



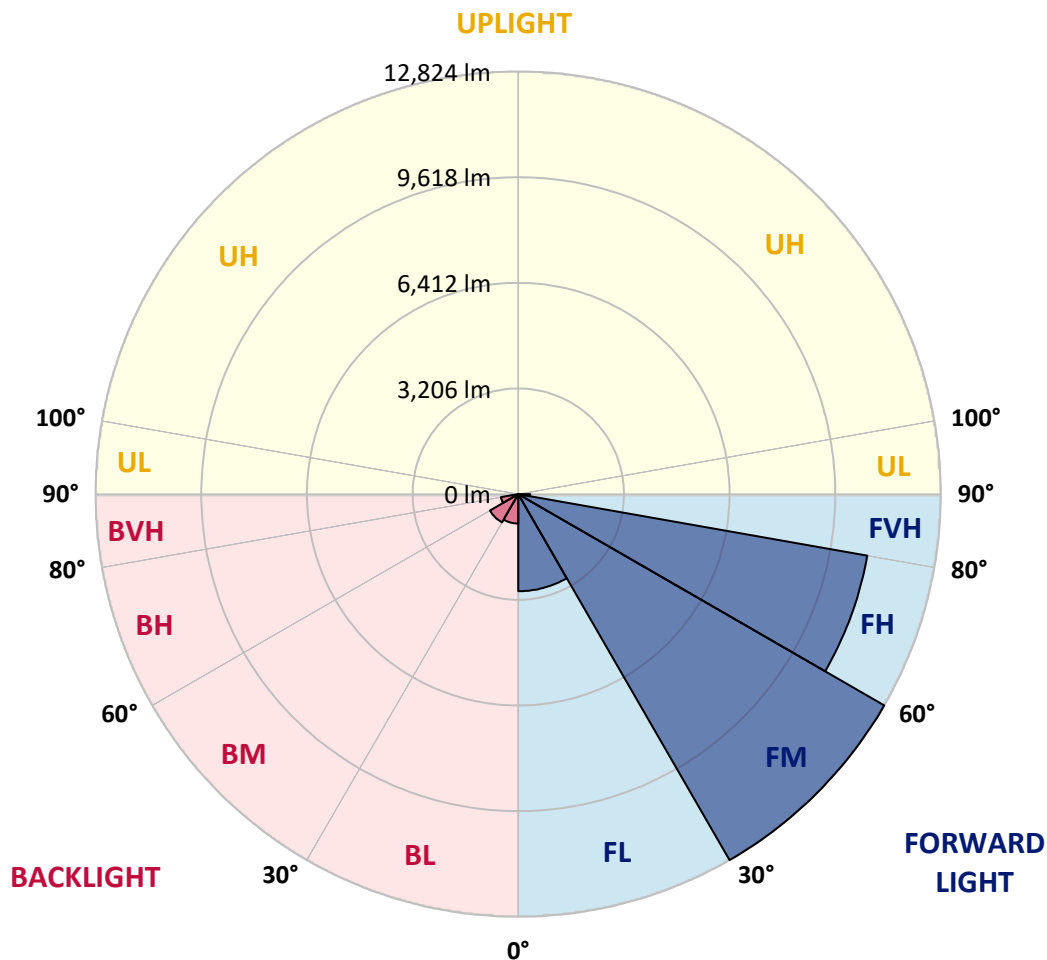
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2945.9	10.1			
FM	(30°-60°)	12824.2	43.8			
FH	(60°-80°)	10754.0	36.7			G4/12000
FVH	(80°-90°)	358.0	1.2			G3/500
BL	(0°-30°)	892.1	3.0	B2/1000		
BM	(30°-60°)	991.6	3.4	B1/1000		
BH	(60°-80°)	532.6	1.8	B2/1000		G2/1000
BVH	(80°-90°)	6.0	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°	8302.3	8302.3	8302.3	8302.3	8302.3	8302.3	8302.3	8302.3	8302.3	8302.3	8302.3
2.5°	9033.7	9064.9	9092.1	9041.5	9084.3	9022.1	8862.6	8827.5	8800.3	8563.0	8426.8
5°	9029.9	8994.8	9022.1	9045.4	8987.1	9033.7	8994.8	8998.7	8893.7	8679.7	8298.4
7.5°	8426.8	8411.3	8426.8	8539.6	8668.0	8769.2	8827.5	8885.9	8815.9	8496.9	8127.3
10°	7613.7	7691.5	7734.3	7936.6	8135.0	8321.8	8504.6	8613.6	8594.1	8465.7	7940.5
12.5°	7045.7	7022.4	7178.0	7310.3	7508.7	7886.0	8205.1	8306.2	8422.9	8244.0	7695.4
15°	6520.5	6458.2	6551.6	6781.1	7119.6	7419.2	7866.6	8018.3	8166.2	8212.8	7563.1
17.5°	6018.6	6049.7	6147.0	6353.2	6672.2	7092.4	7512.6	7730.4	8084.5	8022.2	7364.7
20°	5777.4	5843.5	5878.5	5983.6	6205.3	6625.5	7251.9	7427.0	7804.3	8018.3	7170.2
22.5°	5789.1	5789.1	5707.4	5769.6	5971.9	6298.7	6897.9	7092.4	7691.5	7816.0	6995.1
25°	5913.6	5835.8	5839.6	5765.7	5851.3	6030.3	6578.8	6816.2	7462.0	7835.5	6901.7
27.5°	6006.9	5991.4	5968.0	5948.6	5839.6	5866.9	6368.8	6563.3	7372.5	7812.1	6757.8
30°	6345.4	6275.4	6252.0	6209.2	6065.3	5933.0	6201.5	6446.6	7302.5	7866.6	6676.1
32.5°	6629.4	6641.1	6660.5	6536.0	6411.5	6084.7	6248.1	6442.7	7251.9	7991.1	6757.8
35°	6987.3	7037.9	7045.7	7006.8	6874.5	6551.6	6442.7	6610.0	7337.5	8212.8	6765.6
37.5°	7532.0	7477.5	7625.4	7640.9	7547.6	7119.6	6894.0	6960.1	7590.4	8566.9	7061.3
40°	7886.0	7952.2	8228.4	8399.6	8240.1	7851.0	7547.6	7535.9	7956.1	9123.2	7427.0
42.5°	8279.0	8426.8	8730.3	9099.9	9080.4	8718.6	8411.3	8360.7	8605.8	9928.6	8006.7
45°	8815.9	8948.2	9372.2	9928.6	10232.0	9924.7	9461.7	9360.5	9395.6	11025.7	8994.8
47.5°	9706.8	9671.8	10282.6	10831.2	11329.1	11091.8	10893.4	10597.7	10570.5	12317.3	10360.4
50°	10714.4	10706.7	11251.3	11873.8	12449.6	12912.6	12581.9	12259.0	12266.7	14071.9	11967.2
52.5°	11671.5	11823.2	12410.7	13029.3	14017.5	14515.5	14834.5	14706.1	14087.5	15639.8	13686.8
55°	12177.3	12309.5	12893.1	13959.1	15519.2	16799.2	17662.9	17553.9	16359.6	17406.1	15383.0
57.5°	11698.7	11788.2	12578.0	13974.7	16569.6	19425.3	20253.9	20117.8	18709.4	18756.1	17433.3
60°	9695.1	9835.2	11010.1	12648.0	16161.1	21448.3	23821.5	23615.3	20849.2	20464.0	18752.2
62.5°	6715.0	6808.4	7773.2	9811.8	14223.7	22152.5	27190.7	27303.5	23105.7	21794.6	19145.2
65°	4349.6	4341.8	4894.3	6275.4	10080.3	20020.5	29182.6	29882.9	25284.4	21996.9	19024.6
67°	3073.5	3061.8	3322.5	4256.2	6979.6	16495.7	29147.6	30653.3	26467.1	22055.3	17908.0
67.5°	2836.2	2824.5	3073.5	3913.8	6298.7	15340.2	28711.9	30256.4	26883.4	21973.5	17417.8
70°	2202.0	2170.9	2264.3	2696.1	3668.7	9920.8	24572.4	27793.7	26019.7	19934.9	13908.5
72.5°	1591.2	1626.2	1774.1	2213.7	2879.0	5337.8	18728.9	22475.4	21732.3	15025.1	8839.2
75°	1108.8	1139.9	1377.2	1805.2	2641.7	3236.9	12663.6	16301.2	15137.9	8294.5	3766.0
77.5°	579.7	618.6	879.3	1443.4	2400.4	2505.5	7567.0	10337.1	8022.2	2952.9	1038.8
80°	268.4	287.9	439.6	1023.2	2007.5	2202.0	4411.8	5750.2	3209.7	661.4	357.9
82.5°	116.7	128.4	202.3	587.5	1423.9	1925.8	2731.1	3015.1	1163.3	214.0	221.8
85°	23.3	27.2	77.8	311.2	688.6	1167.2	1918.0	1789.6	583.6	105.0	175.1
87.5°	0.0	0.0	19.5	89.5	186.7	346.3	813.1	813.1	179.0	54.5	66.1
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°	8302.3	8302.3	8302.3	8302.3	8302.3	8302.3	8302.3	8302.3	8302.3	8302.3	8302.3
2.5°	8306.2	8166.2	7858.8	7574.8	7372.5	7143.0	6839.5	6703.3	6652.8	6582.7	6477.7
5°	8088.4	7917.2	7392.0	6862.8	6283.2	5843.5	5376.7	5104.3	4898.1	4769.8	4727.0
7.5°	7781.0	7430.9	6722.8	5874.7	5123.8	4470.2	3762.1	3283.6	2976.2	2851.7	2735.0
10°	7535.9	7080.7	6003.0	4948.7	3948.9	2991.8	2194.2	1774.1	1455.0	1334.4	1318.9
12.5°	7216.9	6672.2	5330.0	4003.3	2746.7	1781.8	1213.8	1054.3	964.8	949.3	937.6
15°	6952.3	6302.6	4691.9	3100.7	1778.0	1112.7	945.4	906.5	883.1	875.4	879.3
17.5°	6773.4	5905.8	4038.3	2256.5	1171.0	910.4	871.5	848.1	836.5	832.6	820.9
20°	6419.3	5571.2	3392.5	1579.5	914.3	840.3	809.2	789.8	778.1	774.2	770.3
22.5°	6217.0	5147.1	2746.7	1101.0	813.1	762.5	739.2	723.6	704.2	692.5	688.6
25°	6014.7	4835.9	2170.9	855.9	739.2	704.2	669.2	649.7	618.6	603.0	599.1
27.5°	5777.4	4528.5	1672.9	743.1	665.3	630.3	595.2	564.1	525.2	509.7	501.9
30°	5641.2	4229.0	1260.5	665.3	610.8	564.1	521.3	482.4	439.6	412.4	404.6
32.5°	5571.2	3956.6	945.4	606.9	552.5	501.9	447.4	400.7	361.8	338.5	334.6
35°	5485.6	3692.1	743.1	552.5	498.0	443.5	389.1	342.4	303.5	284.0	276.2
37.5°	5575.1	3536.5	618.6	509.7	455.2	392.9	334.6	287.9	256.8	237.3	233.4
40°	5820.2	3408.1	536.9	470.8	412.4	346.3	291.8	245.1	217.9	202.3	194.5
42.5°	6197.6	3408.1	486.3	431.8	373.5	303.5	249.0	214.0	186.7	171.2	167.3
45°	6882.3	3513.1	443.5	392.9	326.8	260.7	214.0	179.0	151.7	136.2	132.3
47.5°	7843.3	3754.3	408.5	357.9	291.8	229.5	186.7	151.7	124.5	108.9	105.0
50°	9134.9	4302.9	373.5	315.1	260.7	198.4	155.6	120.6	97.3	81.7	77.8
52.5°	10745.6	5081.0	338.5	291.8	221.8	167.3	124.5	97.3	73.9	62.2	58.4
55°	12449.6	6034.2	295.7	260.7	190.6	140.1	101.2	73.9	54.5	46.7	42.8
57.5°	14165.3	6769.5	260.7	225.6	155.6	112.8	81.7	58.4	38.9	31.1	27.2
60°	15075.7	6839.5	225.6	186.7	124.5	89.5	62.2	42.8	27.2	19.5	15.6
62.5°	15215.7	6217.0	194.5	151.7	101.2	70.0	42.8	31.1	15.6	7.8	7.8
65°	14496.0	5182.1	167.3	120.6	77.8	50.6	31.1	19.5	7.8	3.9	0.0
67°	13328.9	4341.8	143.9	101.2	62.2	38.9	23.3	11.7	3.9	0.0	0.0
67.5°	12877.6	4108.4	136.2	93.4	58.4	35.0	19.5	11.7	3.9	0.0	0.0
70°	9994.7	2933.4	101.2	66.1	42.8	27.2	15.6	7.8	0.0	0.0	0.0
72.5°	6123.6	1715.7	77.8	46.7	31.1	19.5	11.7	3.9	0.0	0.0	0.0
75°	2567.7	591.4	66.1	35.0	23.3	11.7	7.8	3.9	0.0	0.0	0.0
77.5°	669.2	221.8	46.7	23.3	15.6	11.7	7.8	3.9	0.0	0.0	0.0
80°	272.3	101.2	31.1	15.6	15.6	11.7	7.8	3.9	0.0	0.0	0.0
82.5°	179.0	46.7	19.5	15.6	11.7	7.8	3.9	0.0	0.0	0.0	0.0
85°	136.2	27.2	11.7	11.7	7.8	3.9	0.0	0.0	0.0	0.0	0.0
87.5°	58.4	15.6	11.7	7.8	7.8	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)