

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: P484814

Luminaire Tested: **IFLD-L-SA7D-740-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484814
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-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

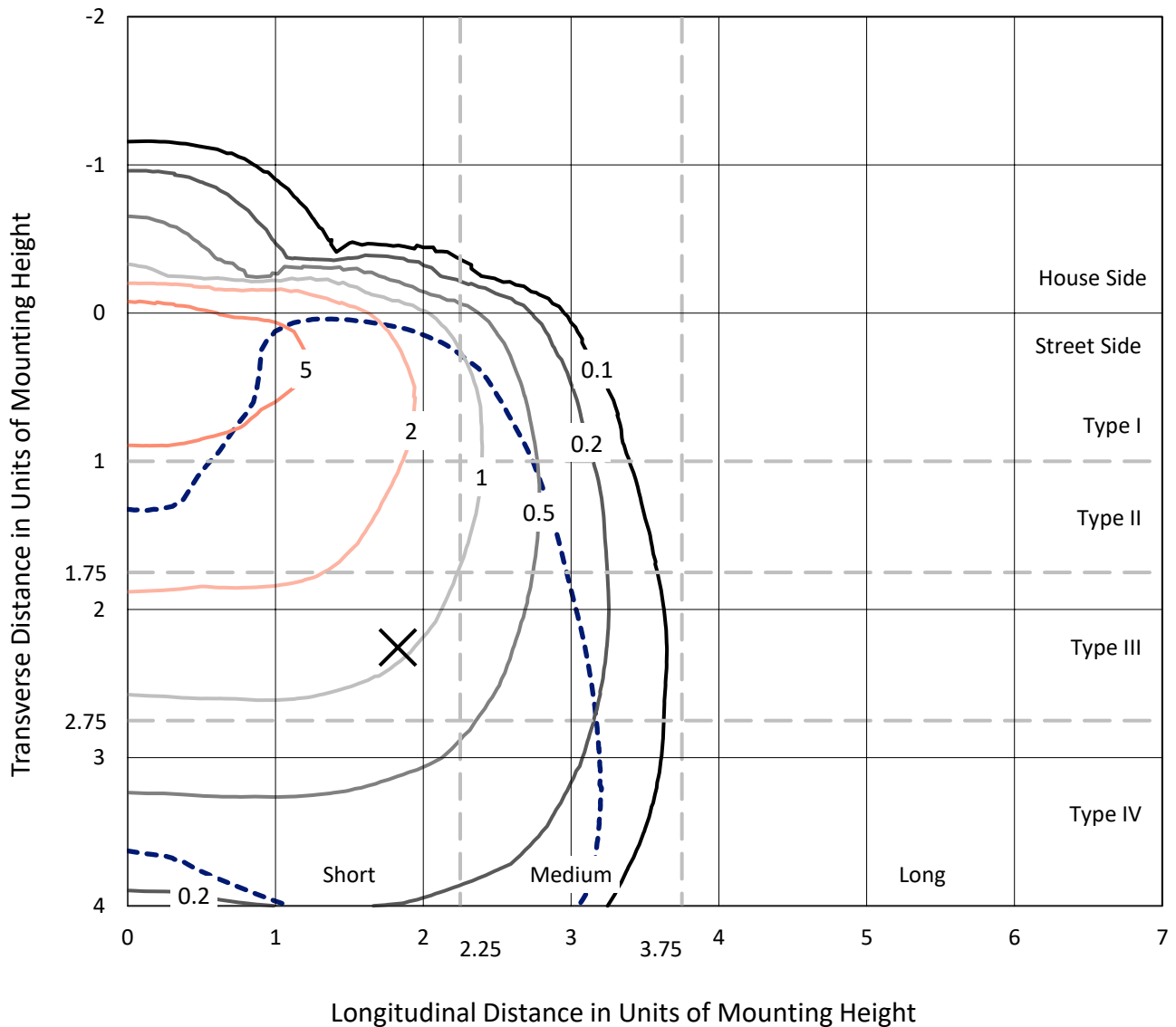
Lumens per Lamp: N/A
Luminaire Lumens: 40297.3 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6
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

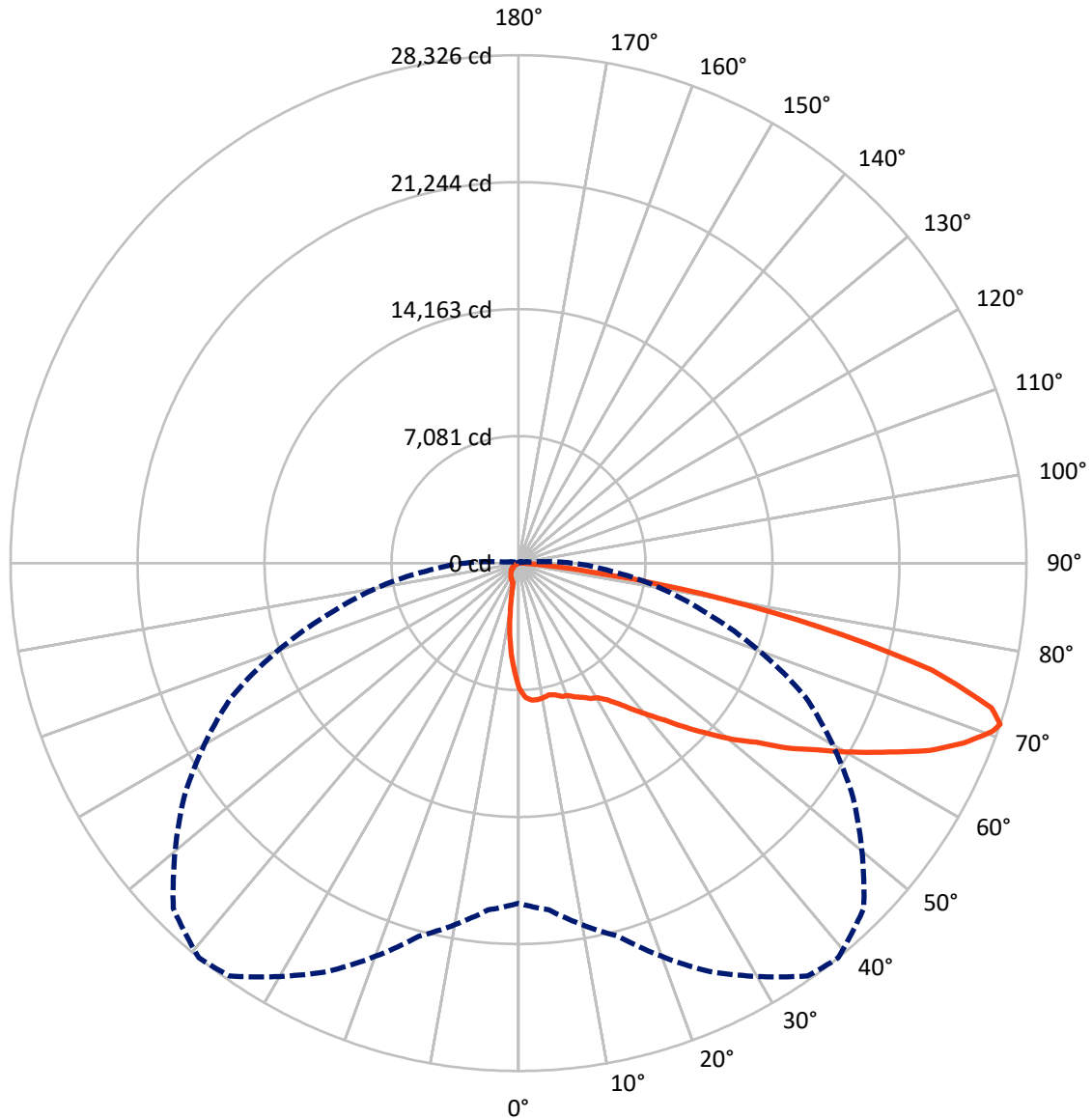
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.4 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	3033.8	0.0	3033.8
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	37263.5	0.0	37263.5
	% Fixture	92.5	0.0	92.5
Total	Lumens	40297.3	0.0	40297.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.4	1.5
10°-20°	1443.4	3.6
20°-30°	2317.1	5.8
30°-40°	3546.9	8.8
40°-50°	5693.4	14.1
50°-60°	8362.7	20.8
60°-70°	10532.6	26.1
70°-80°	7029.2	17.4
80°-90°	785.5	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°	40297.3	100.0
0°-180°	40297.3	100.0

Coefficient of Utilization



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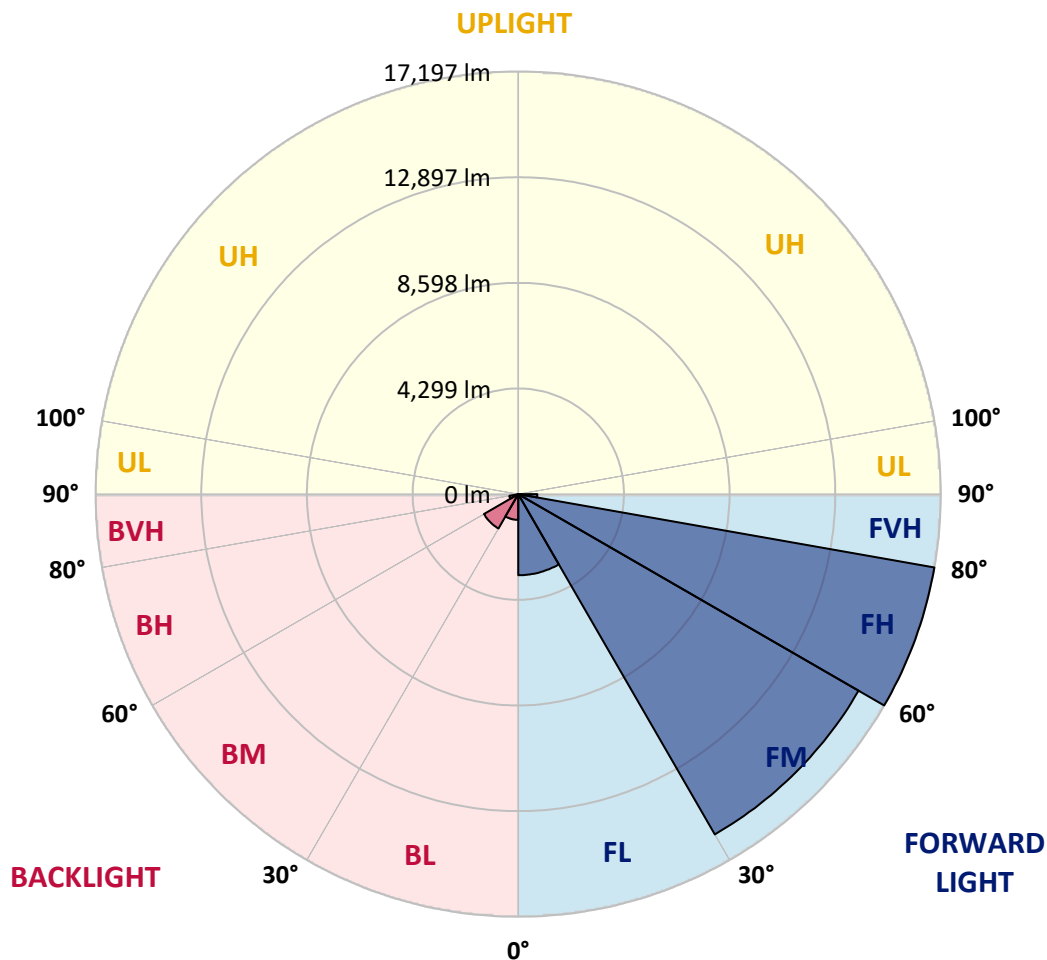
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3299.5	8.2			
FM (30°-60°)	15990.5	39.7			
FH (60°-80°)	17196.6	42.7			G5
FVH (80°-90°)	776.9	1.9			G5
BL (0°-30°)	1047.4	2.6	B3/2500		
BM (30°-60°)	1612.6	4.0	B2/2500		
BH (60°-80°)	365.1	0.9	B1/500		G1/500
BVH (80°-90°)	8.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	7014.0	7014.0	7014.0	7014.0	7014.0	7014.0	7014.0	7014.0	7014.0	7014.0	7014.0
2.5°	7558.4	7632.4	7558.4	7526.7	7495.0	7500.3	7415.7	7431.6	7331.1	7199.0	7093.3
5°	7796.3	7896.7	7817.4	7780.4	7775.1	7674.7	7632.4	7532.0	7410.4	7204.3	7077.4
7.5°	7775.1	7754.0	7791.0	7759.3	7690.5	7690.5	7643.0	7500.3	7378.7	7146.1	6929.4
10°	7616.6	7680.0	7648.3	7611.3	7627.1	7632.4	7542.6	7442.1	7405.1	7172.6	6818.4
12.5°	7600.7	7495.0	7611.3	7616.6	7547.8	7542.6	7532.0	7505.6	7389.3	7177.8	6844.9
15°	7547.8	7505.6	7621.8	7627.1	7643.0	7627.1	7643.0	7621.8	7505.6	7384.0	6961.1
17.5°	7590.1	7542.6	7706.4	7785.7	7748.7	7822.7	7796.3	7701.1	7600.7	7458.0	7072.1
20°	7600.7	7669.4	7849.1	7880.8	7997.1	7875.5	7870.3	7769.8	7706.4	7553.1	7140.8
22.5°	7796.3	7828.0	8050.0	8118.7	8124.0	8108.1	7976.0	7859.7	7833.3	7643.0	7156.7
25°	8092.3	8203.3	8303.7	8346.0	8361.8	8287.8	8150.4	8002.4	7939.0	7817.4	7320.6
27.5°	8615.5	8546.8	8636.7	8700.1	8520.4	8546.8	8372.4	8245.5	8155.7	8050.0	7510.8
30°	9080.7	9017.2	9022.5	9011.9	8858.7	8716.0	8668.4	8446.4	8335.4	8377.7	7806.8
32.5°	9498.2	9360.8	9477.1	9424.2	9138.8	9096.5	9059.5	8779.4	8800.5	8996.1	8250.8
35°	9884.1	9836.5	9931.6	9836.5	9646.2	9635.7	9598.7	9355.5	9471.8	9751.9	9011.9
37.5°	10238.2	10254.1	10370.3	10322.8	10338.6	10349.2	10328.1	10069.1	10402.1	11031.0	9899.9
40°	10565.9	10544.8	10830.2	10978.2	11009.9	11126.2	11126.2	11062.8	11575.5	12283.7	11131.5
42.5°	10914.8	10967.6	11337.6	11586.0	11887.3	11987.7	12125.2	12156.9	12949.7	13758.4	12389.4
45°	11485.6	11395.8	11866.2	12452.9	12717.2	13071.3	13282.7	13462.4	14419.1	15529.1	13647.4
47.5°	12209.7	12030.0	12442.3	13293.3	13906.4	14197.1	14577.7	14815.5	15751.1	16898.1	14836.7
50°	13013.1	12828.2	13029.0	14202.4	14916.0	15444.5	15930.8	16232.1	17363.2	18430.9	15703.5
52.5°	13922.3	13753.1	13784.8	15148.5	16200.4	16586.2	17225.8	17675.0	18800.9	19355.9	16010.1
55°	14889.5	14847.3	14746.8	16073.5	17326.2	18193.0	18578.9	19118.0	20275.6	19858.0	16343.1
57.5°	15862.1	15729.9	15872.7	17299.8	19133.9	19651.9	20185.7	20508.1	21094.8	20296.7	16216.2
60°	16776.5	16787.1	16987.9	18631.7	20672.0	21406.7	21887.7	21692.1	21935.2	20487.0	15925.5
62.5°	17548.2	17527.1	18034.5	20127.6	22706.9	23203.8	23563.2	22691.1	22326.4	20672.0	15418.1
65°	18240.6	18478.5	19276.6	21908.8	24620.3	25191.2	24974.5	23637.2	22706.9	20127.6	13991.0
67.5°	18763.9	19118.0	20502.8	23584.4	26375.1	26776.9	26475.6	24356.0	22257.7	17992.2	11395.8
70°	19070.4	19429.9	21380.3	24979.7	27775.8	28066.5	27358.3	23801.1	19636.0	13029.0	7109.1
71°	18975.3	19414.0	21549.4	25127.7	28108.8	28325.5	27226.1	22775.7	17659.2	10909.5	5185.2
72.5°	18113.8	18526.0	20846.4	25022.0	27707.1	27575.0	26195.4	20312.6	13901.1	6955.9	2679.8
75°	13309.1	13753.1	17891.8	21644.5	24731.3	23822.2	21200.5	14255.3	7251.8	2130.1	782.3
77.5°	6628.1	6702.1	11105.0	15714.1	18140.2	17236.3	14207.7	7949.5	2711.5	629.0	391.1
80°	3055.1	3076.2	4165.1	8139.8	10967.6	10322.8	7960.1	3921.9	1226.3	333.0	306.6
82.5°	2082.5	2114.2	2510.7	3372.2	4762.3	4017.1	3224.2	2510.7	703.0	200.9	301.3
85°	380.6	348.8	1406.0	1786.5	1839.4	1247.4	1115.3	2172.4	264.3	116.3	264.3
87.5°	0.0	5.3	195.6	729.4	655.4	290.7	380.6	528.6	26.4	37.0	47.6
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°	7014.0	7014.0	7014.0	7014.0	7014.0	7014.0	7014.0	7014.0	7014.0	7014.0	7014.0
2.5°	7003.4	6945.3	6749.7	6533.0	6337.4	6184.2	5988.6	5898.7	5756.0	5676.7	5671.4
5°	6903.0	6744.4	6406.1	6041.4	5634.5	5296.2	4920.9	4709.5	4466.3	4392.3	4376.5
7.5°	6733.9	6506.6	6009.7	5497.0	4873.3	4276.1	3816.2	3324.6	3023.4	2896.5	2848.9
10°	6628.1	6353.3	5676.7	4910.3	4038.2	3197.8	2552.9	2029.7	1754.8	1622.7	1591.0
12.5°	6628.1	6332.1	5407.2	4350.0	3192.5	2188.2	1580.4	1279.1	1189.3	1157.5	1157.5
15°	6612.3	6289.9	5148.2	3773.9	2362.7	1469.4	1178.7	1115.3	1104.7	1099.4	1094.1
17.5°	6691.6	6215.9	4883.9	3155.5	1670.2	1157.5	1083.5	1073.0	1062.4	1062.4	1051.8
20°	6749.7	6173.6	4566.8	2500.1	1247.4	1073.0	1041.3	1025.4	1020.1	1014.8	1025.4
22.5°	6702.1	6110.2	4175.6	1871.1	1088.8	1020.1	999.0	983.1	972.6	972.6	977.8
25°	6792.0	6052.0	3784.5	1411.3	1020.1	972.6	951.4	940.8	935.6	930.3	919.7
27.5°	6913.6	6078.4	3319.4	1136.4	962.0	925.0	903.8	893.3	888.0	877.4	888.0
30°	7061.6	6073.2	2806.7	993.7	909.1	872.1	851.0	845.7	835.1	829.8	835.1
32.5°	7315.3	6210.6	2278.1	919.7	851.0	819.3	798.1	792.8	787.6	782.3	777.0
35°	7859.7	6379.7	1781.2	861.6	798.1	761.1	745.3	734.7	729.4	724.1	718.8
37.5°	8531.0	6755.0	1358.4	808.7	745.3	708.3	692.4	687.1	666.0	660.7	655.4
40°	9371.4	7156.7	1046.5	750.6	697.7	660.7	644.8	629.0	602.6	592.0	581.4
42.5°	10417.9	7547.8	861.6	697.7	644.8	618.4	592.0	565.6	544.4	523.3	512.7
45°	11464.5	8002.4	755.8	650.1	602.6	570.8	549.7	512.7	475.7	444.0	438.7
47.5°	12336.6	8166.3	692.4	597.3	560.3	533.8	502.1	454.6	401.7	370.0	364.7
50°	12986.7	8071.1	629.0	544.4	512.7	486.3	444.0	385.8	333.0	301.3	290.7
52.5°	13113.6	7653.6	570.8	502.1	465.1	433.4	385.8	322.4	264.3	232.6	227.3
55°	13023.7	6961.1	523.3	465.1	422.8	375.3	322.4	259.0	206.1	174.4	169.1
57.5°	12838.7	6141.9	470.4	417.6	370.0	322.4	264.3	211.4	153.3	121.6	121.6
60°	12209.7	5026.6	417.6	364.7	317.1	274.9	216.7	153.3	105.7	79.3	74.0
62.5°	11332.3	3863.8	364.7	311.9	274.9	227.3	169.1	111.0	63.4	42.3	42.3
65°	9730.8	2706.2	306.6	259.0	227.3	185.0	126.9	68.7	37.0	15.9	15.9
67.5°	7394.6	1675.5	253.7	216.7	195.6	148.0	89.9	42.3	15.9	5.3	0.0
70°	4244.3	872.1	200.9	174.4	153.3	111.0	63.4	21.1	10.6	0.0	0.0
71°	2965.2	644.8	179.7	153.3	137.4	100.4	52.9	15.9	5.3	0.0	0.0
72.5°	1485.3	428.1	153.3	126.9	111.0	79.3	42.3	15.9	5.3	0.0	0.0
75°	528.6	274.9	105.7	84.6	79.3	58.1	26.4	10.6	5.3	0.0	0.0
77.5°	364.7	222.0	74.0	52.9	52.9	37.0	15.9	5.3	5.3	0.0	0.0
80°	333.0	121.6	47.6	31.7	26.4	21.1	10.6	5.3	0.0	0.0	0.0
82.5°	333.0	89.9	26.4	21.1	15.9	10.6	5.3	0.0	0.0	0.0	0.0
85°	232.6	47.6	15.9	15.9	10.6	5.3	0.0	0.0	0.0	0.0	0.0
87.5°	37.0	15.9	10.6	5.3	5.3	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)