

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: P484856

Luminaire Tested: **IFLD-L-SA8B-750-U-SL4-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P484856
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-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

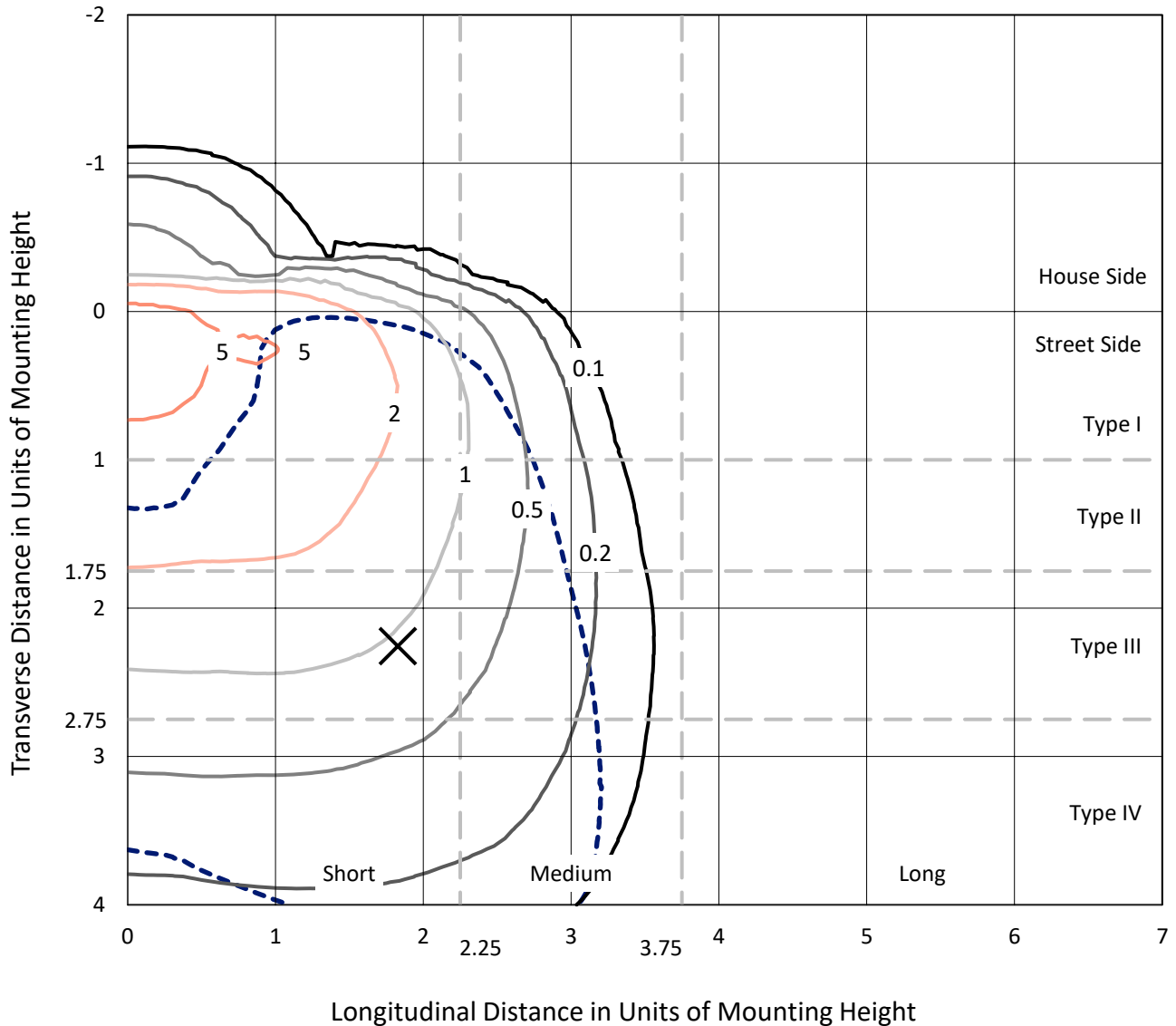
Lumens per Lamp: N/A
Luminaire Lumens: 34391.8 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 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

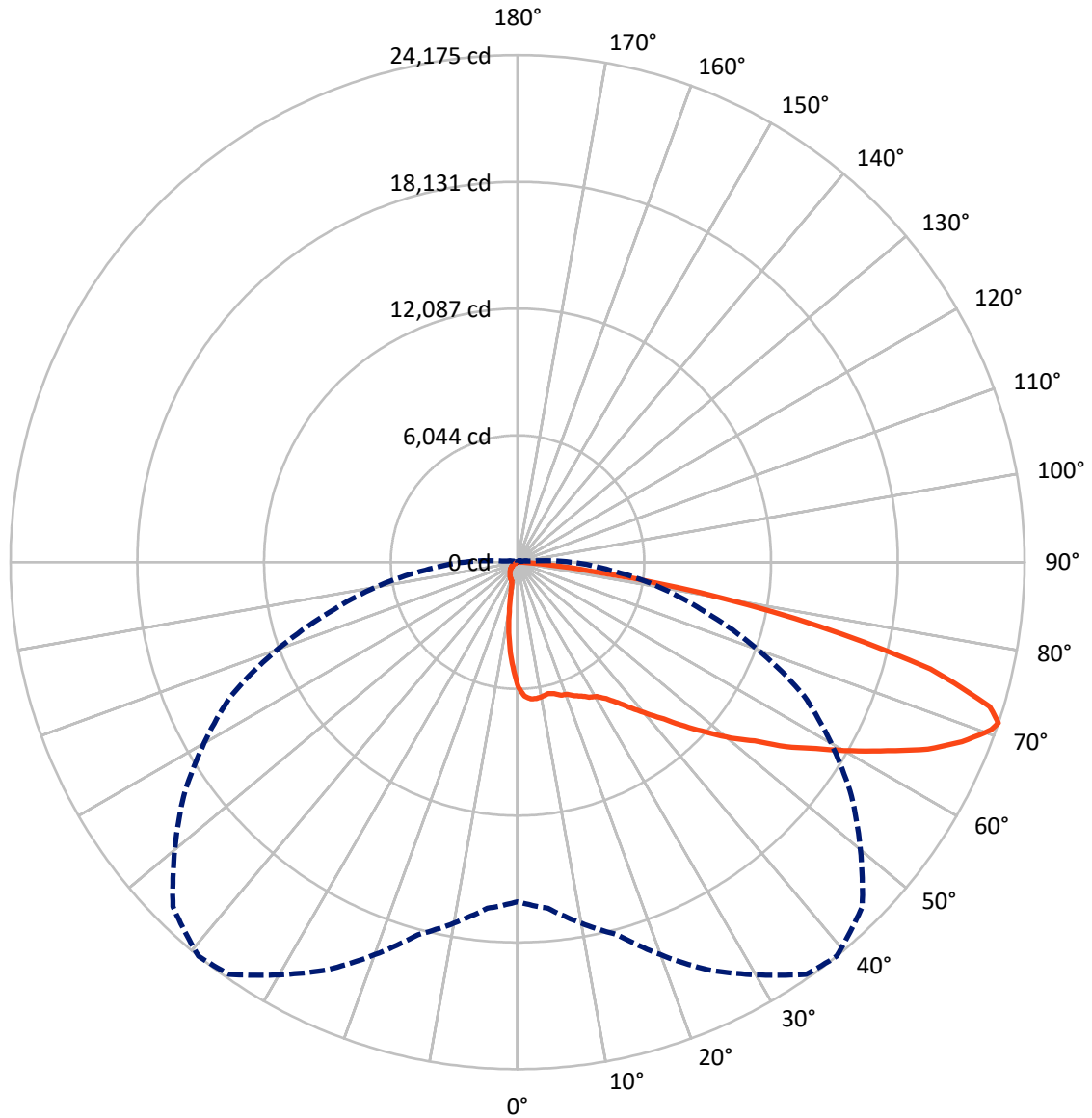
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 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	2589.2	0.0	2589.2
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	31802.7	0.0	31802.7
	% Fixture	92.5	0.0	92.5
Total	Lumens	34391.8	0.0	34391.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.5	1.5
10°-20°	1231.9	3.6
20°-30°	1977.5	5.8
30°-40°	3027.1	8.8
40°-50°	4859.1	14.1
50°-60°	7137.2	20.8
60°-70°	8989.0	26.1
70°-80°	5999.1	17.4
80°-90°	670.4	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°	34391.8	100.0
0°-180°	34391.8	100.0

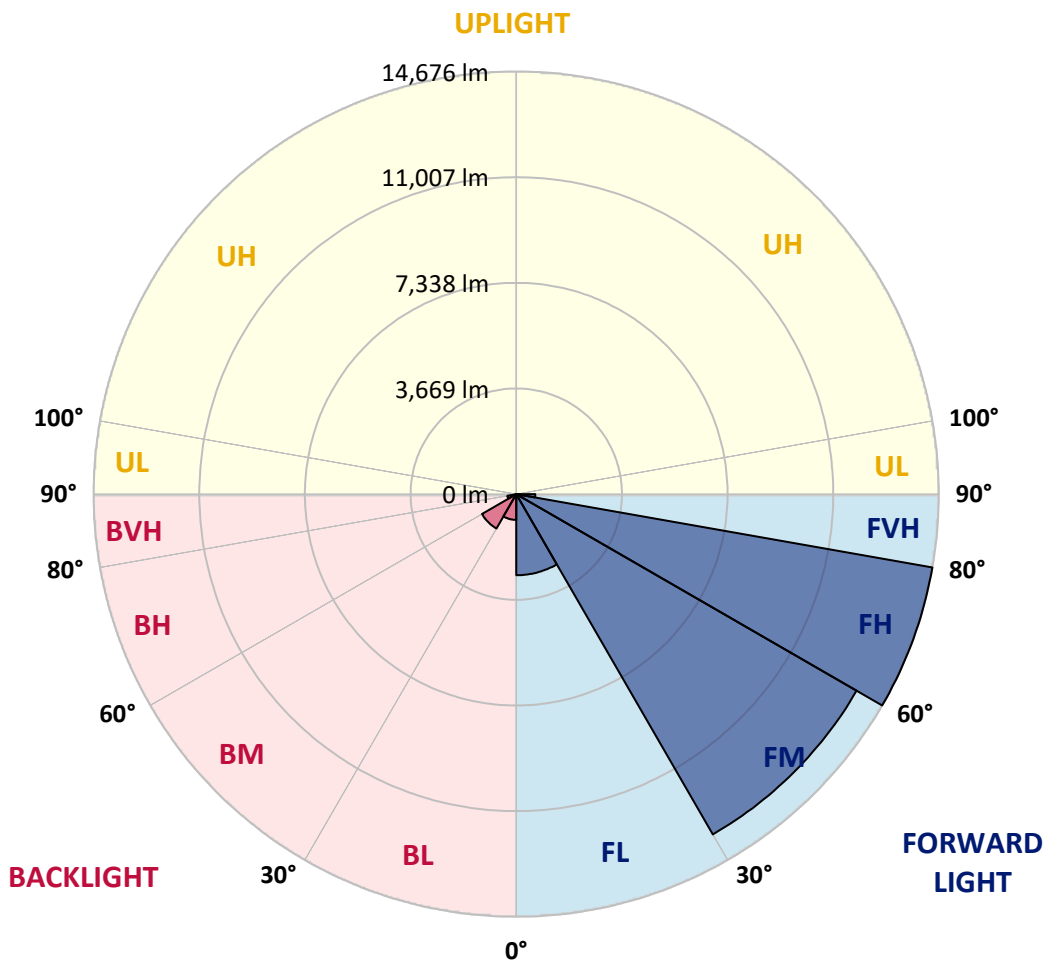


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2816.0	8.2			
FM (30°-60°)	13647.2	39.7			
FH (60°-80°)	14676.5	42.7			G5
FVH (80°-90°)	663.0	1.9			G4/750
BL (0°-30°)	893.9	2.6	B2/1000		
BM (30°-60°)	1376.3	4.0	B2/2500		
BH (60°-80°)	311.6	0.9	B1/500		G1/500
BVH (80°-90°)	7.4	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°	5986.1	5986.1	5986.1	5986.1	5986.1	5986.1	5986.1	5986.1	5986.1	5986.1	5986.1
2.5°	6450.8	6513.9	6450.8	6423.7	6396.6	6401.1	6329.0	6342.5	6256.8	6144.0	6053.8
5°	6653.7	6739.5	6671.8	6640.2	6635.7	6550.0	6513.9	6428.2	6324.4	6148.5	6040.3
7.5°	6635.7	6617.7	6649.2	6622.2	6563.5	6563.5	6522.9	6401.1	6297.4	6098.9	5913.9
10°	6500.4	6554.5	6527.4	6495.9	6509.4	6513.9	6437.2	6351.5	6319.9	6121.4	5819.2
12.5°	6486.8	6396.6	6495.9	6500.4	6441.7	6437.2	6428.2	6405.6	6306.4	6126.0	5841.8
15°	6441.7	6405.6	6504.9	6509.4	6522.9	6509.4	6522.9	6504.9	6405.6	6301.9	5941.0
17.5°	6477.8	6437.2	6577.1	6644.7	6613.1	6676.3	6653.7	6572.6	6486.8	6365.0	6035.7
20°	6486.8	6545.5	6698.9	6725.9	6825.2	6721.4	6716.9	6631.2	6577.1	6446.2	6094.4
22.5°	6653.7	6680.8	6870.3	6928.9	6933.4	6919.9	6807.1	6707.9	6685.3	6522.9	6107.9
25°	6906.4	7001.1	7086.8	7122.9	7136.4	7073.3	6956.0	6829.7	6775.5	6671.8	6247.8
27.5°	7353.0	7294.3	7371.0	7425.1	7271.8	7294.3	7145.4	7037.2	6960.5	6870.3	6410.2
30°	7749.9	7695.8	7700.3	7691.3	7560.5	7438.7	7398.1	7208.6	7113.9	7150.0	6662.8
32.5°	8106.3	7989.0	8088.3	8043.1	7799.5	7763.5	7731.9	7492.8	7510.8	7677.7	7041.7
35°	8435.6	8395.0	8476.2	8395.0	8232.6	8223.6	8192.0	7984.5	8083.7	8322.8	7691.3
37.5°	8737.8	8751.4	8850.6	8810.0	8823.5	8832.6	8814.5	8593.5	8877.7	9414.5	8449.1
40°	9017.5	8999.5	9243.1	9369.4	9396.4	9495.7	9495.7	9441.6	9879.1	10483.6	9500.2
42.5°	9315.2	9360.4	9676.1	9888.1	10145.3	10231.0	10348.3	10375.3	11052.0	11742.2	10573.8
45°	9802.4	9725.8	10127.2	10628.0	10853.5	11155.7	11336.2	11489.6	12306.1	13253.4	11647.4
47.5°	10420.4	10267.1	10618.9	11345.2	11868.5	12116.6	12441.4	12644.4	13442.8	14421.7	12662.4
50°	11106.1	10948.2	11119.7	12121.1	12730.1	13181.2	13596.2	13853.3	14818.7	15729.9	13402.2
52.5°	11882.0	11737.7	11764.7	12928.6	13826.3	14155.6	14701.4	15084.8	16045.7	16519.3	13663.9
55°	12707.5	12671.4	12585.7	13718.0	14787.1	15526.9	15856.2	16316.3	17304.3	16947.9	13948.1
57.5°	13537.6	13424.8	13546.6	14764.6	16329.9	16772.0	17227.6	17502.7	18003.5	17322.3	13839.8
60°	14318.0	14327.0	14498.4	15901.3	17642.6	18269.6	18680.1	18513.2	18720.7	17484.7	13591.7
62.5°	14976.6	14958.5	15391.6	17177.9	19379.3	19803.4	20110.1	19365.8	19054.5	17642.6	13158.6
65°	15567.5	15770.5	16451.7	18698.2	21012.3	21499.5	21314.6	20173.3	19379.3	17177.9	11940.7
67.5°	16014.1	16316.3	17498.2	20128.2	22510.0	22852.8	22595.7	20786.8	18995.9	15355.5	9725.8
70°	16275.7	16582.5	18247.1	21319.1	23705.4	23953.5	23349.0	20313.1	16758.4	11119.7	6067.3
71°	16194.5	16569.0	18391.4	21445.4	23989.6	24174.5	23236.2	19438.0	15071.3	9310.7	4425.3
72.5°	15459.3	15811.1	17791.4	21355.1	23646.7	23534.0	22356.6	17335.8	11864.0	5936.5	2287.1
75°	11358.7	11737.7	15269.8	18472.6	21107.0	20331.1	18093.7	12166.2	6189.1	1817.9	667.6
77.5°	5656.8	5720.0	9477.6	13411.3	15481.8	14710.4	12125.6	6784.6	2314.2	536.8	333.8
80°	2607.4	2625.4	3554.7	6947.0	9360.4	8810.0	6793.6	3347.2	1046.6	284.2	261.6
82.5°	1777.3	1804.4	2142.7	2878.0	4064.4	3428.4	2751.7	2142.7	600.0	171.4	257.1
85°	324.8	297.7	1199.9	1524.7	1569.8	1064.6	951.8	1854.0	225.6	99.2	225.6
87.5°	0.0	4.5	166.9	622.5	559.4	248.1	324.8	451.1	22.6	31.6	40.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P484856

CATALOG NUMBER: IFLD-L-SA8B-750-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5986.1	5986.1	5986.1	5986.1	5986.1	5986.1	5986.1	5986.1	5986.1	5986.1	5986.1
2.5°	5977.1	5927.5	5760.6	5575.6	5408.7	5277.9	5111.0	5034.3	4912.5	4844.8	4840.3
5°	5891.4	5756.1	5467.4	5156.1	4808.7	4520.0	4199.8	4019.3	3811.8	3748.7	3735.1
7.5°	5747.0	5553.1	5129.0	4691.5	4159.2	3649.4	3257.0	2837.4	2580.3	2472.0	2431.4
10°	5656.8	5422.2	4844.8	4190.7	3446.4	2729.2	2178.8	1732.2	1497.7	1384.9	1357.8
12.5°	5656.8	5404.2	4614.8	3712.6	2724.7	1867.6	1348.8	1091.7	1015.0	987.9	987.9
15°	5643.3	5368.1	4393.7	3220.9	2016.4	1254.1	1006.0	951.8	942.8	938.3	933.8
17.5°	5710.9	5305.0	4168.2	2693.1	1425.5	987.9	924.8	915.7	906.7	906.7	897.7
20°	5760.6	5268.9	3897.5	2133.7	1064.6	915.7	888.7	875.1	870.6	866.1	875.1
22.5°	5720.0	5214.7	3563.7	1596.9	929.3	870.6	852.6	839.0	830.0	830.0	834.5
25°	5796.7	5165.1	3229.9	1204.4	870.6	830.0	812.0	803.0	798.4	793.9	784.9
27.5°	5900.4	5187.7	2832.9	969.9	821.0	789.4	771.4	762.4	757.9	748.8	757.9
30°	6026.7	5183.2	2395.3	848.1	775.9	744.3	726.3	721.8	712.7	708.2	712.7
32.5°	6243.2	5300.4	1944.2	784.9	726.3	699.2	681.2	676.7	672.1	667.6	663.1
35°	6707.9	5444.8	1520.2	735.3	681.2	649.6	636.1	627.0	622.5	618.0	613.5
37.5°	7280.8	5765.1	1159.3	690.2	636.1	604.5	590.9	586.4	568.4	563.9	559.4
40°	7998.0	6107.9	893.2	640.6	595.5	563.9	550.3	536.8	514.3	505.2	496.2
42.5°	8891.2	6441.7	735.3	595.5	550.3	527.8	505.2	482.7	464.6	446.6	437.6
45°	9784.4	6829.7	645.1	554.9	514.3	487.2	469.1	437.6	406.0	378.9	374.4
47.5°	10528.7	6969.5	590.9	509.7	478.2	455.6	428.5	387.9	342.8	315.8	311.3
50°	11083.6	6888.3	536.8	464.6	437.6	415.0	378.9	329.3	284.2	257.1	248.1
52.5°	11191.8	6532.0	487.2	428.5	397.0	369.9	329.3	275.2	225.6	198.5	194.0
55°	11115.1	5941.0	446.6	397.0	360.9	320.3	275.2	221.0	175.9	148.9	144.4
57.5°	10957.3	5241.8	401.5	356.4	315.8	275.2	225.6	180.4	130.8	103.8	103.8
60°	10420.4	4290.0	356.4	311.3	270.7	234.6	185.0	130.8	90.2	67.7	63.2
62.5°	9671.6	3297.6	311.3	266.1	234.6	194.0	144.4	94.7	54.1	36.1	36.1
65°	8304.8	2309.6	261.6	221.0	194.0	157.9	108.3	58.6	31.6	13.5	13.5
67.5°	6310.9	1430.0	216.5	185.0	166.9	126.3	76.7	36.1	13.5	4.5	0.0
70°	3622.3	744.3	171.4	148.9	130.8	94.7	54.1	18.0	9.0	0.0	0.0
71°	2530.7	550.3	153.4	130.8	117.3	85.7	45.1	13.5	4.5	0.0	0.0
72.5°	1267.6	365.4	130.8	108.3	94.7	67.7	36.1	13.5	4.5	0.0	0.0
75°	451.1	234.6	90.2	72.2	67.7	49.6	22.6	9.0	4.5	0.0	0.0
77.5°	311.3	189.5	63.2	45.1	45.1	31.6	13.5	4.5	4.5	0.0	0.0
80°	284.2	103.8	40.6	27.1	22.6	18.0	9.0	4.5	0.0	0.0	0.0
82.5°	284.2	76.7	22.6	18.0	13.5	9.0	4.5	0.0	0.0	0.0	0.0
85°	198.5	40.6	13.5	13.5	9.0	4.5	0.0	0.0	0.0	0.0	0.0
87.5°	31.6	13.5	9.0	4.5	4.5	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)