

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: P484467

Luminaire Tested: **IFLD-L-SA8C-750-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484467
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-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

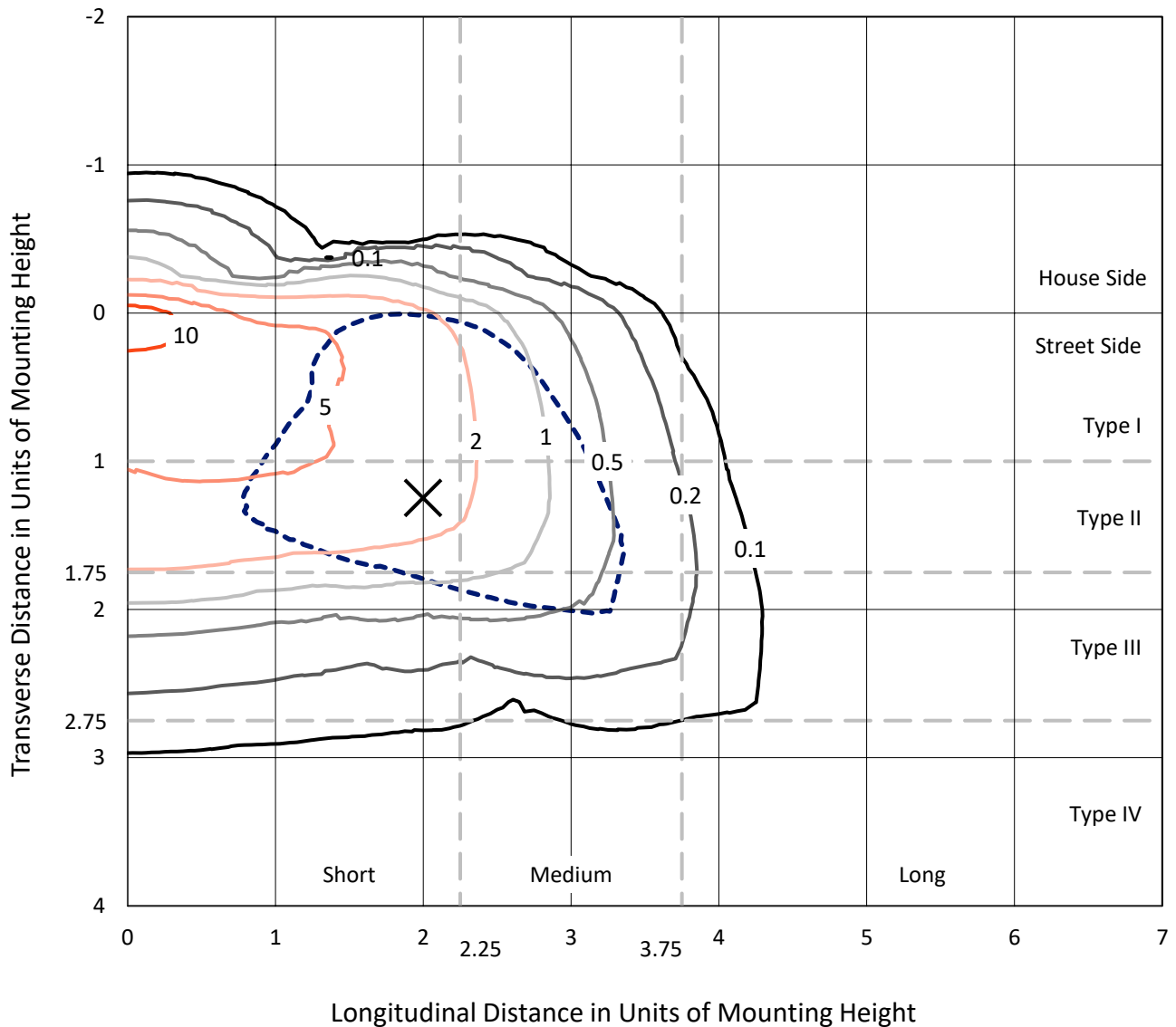
Lumens per Lamp: N/A
Luminaire Lumens: 43340.3 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3
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

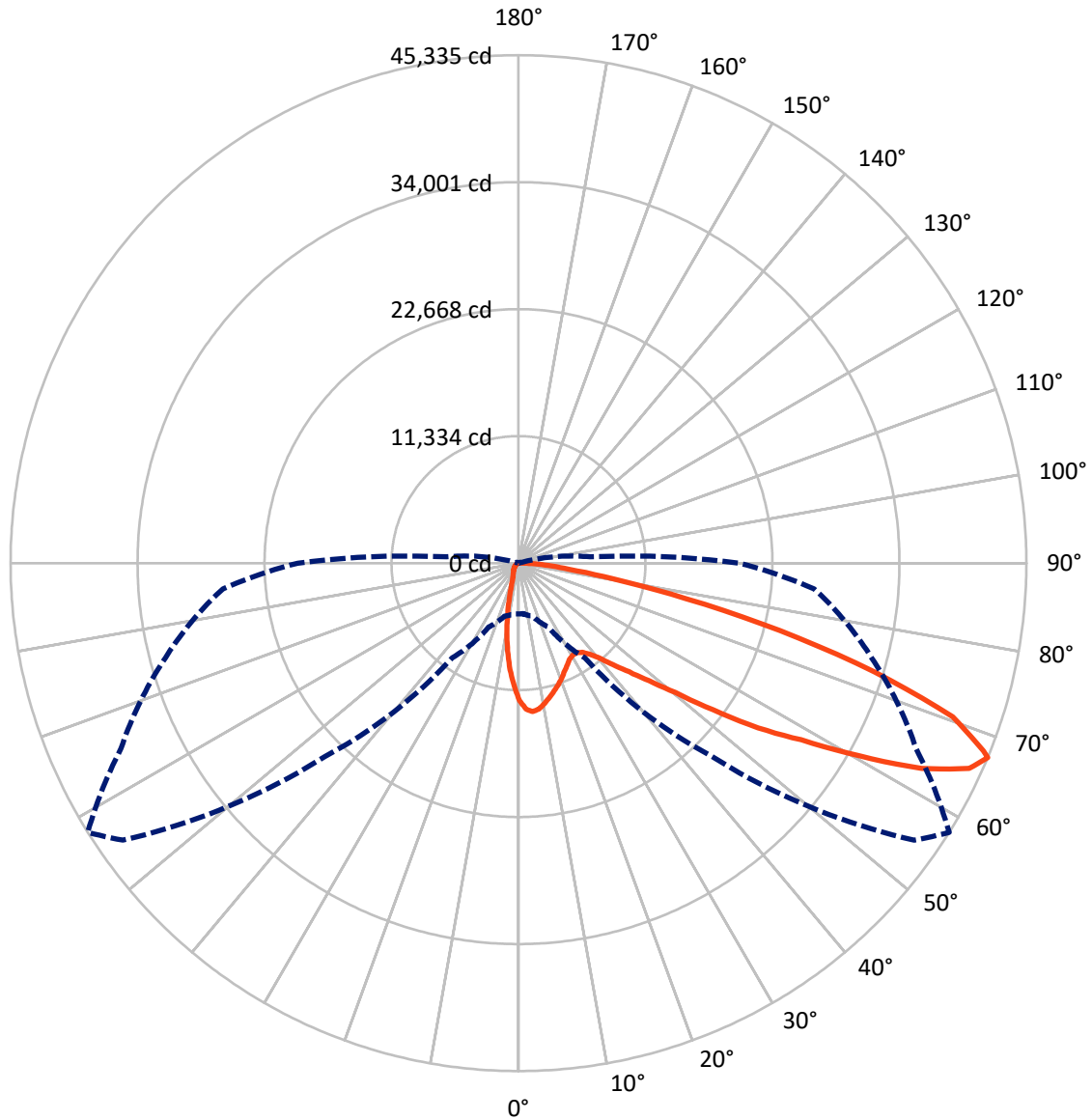
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.7 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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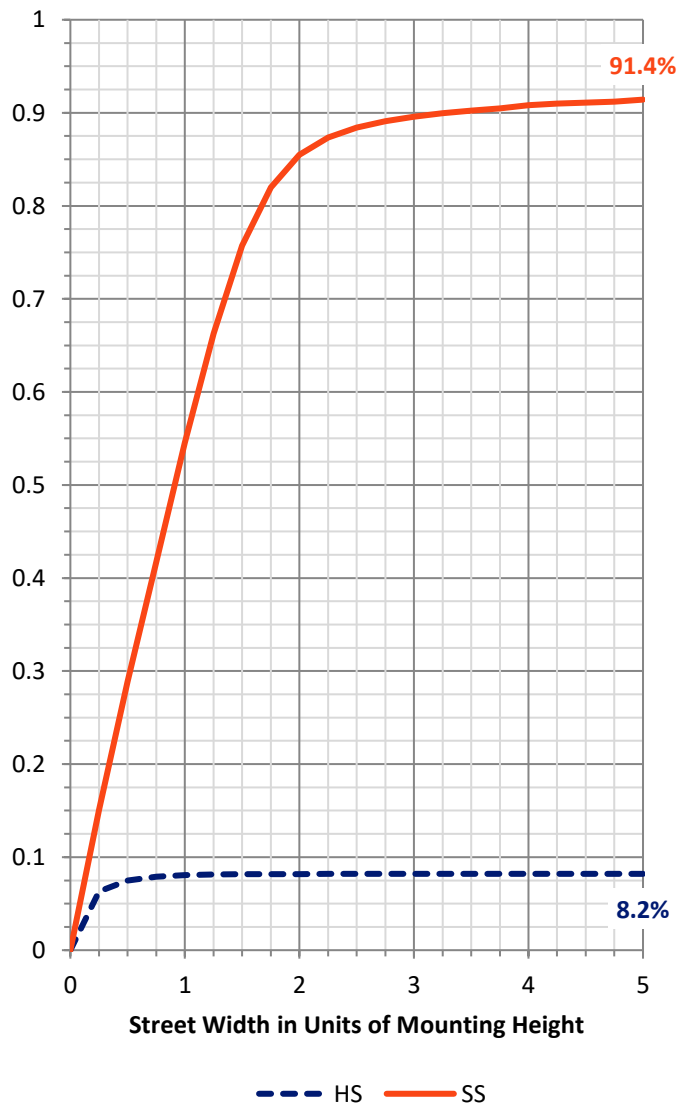
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3582.4	0.0	3582.4
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	39758.0	0.0	39758.0
	% Fixture	91.7	0.0	91.7
Total	Lumens	43340.3	0.0	43340.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	974.3	2.2
10°-20°	2020.8	4.7
20°-30°	2681.2	6.2
30°-40°	3715.3	8.6
40°-50°	6062.3	14.0
50°-60°	10655.5	24.6
60°-70°	11801.9	27.2
70°-80°	4890.7	11.3
80°-90°	538.4	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°	43340.3	100.0
0°-180°	43340.3	100.0

Coefficient of Utilization



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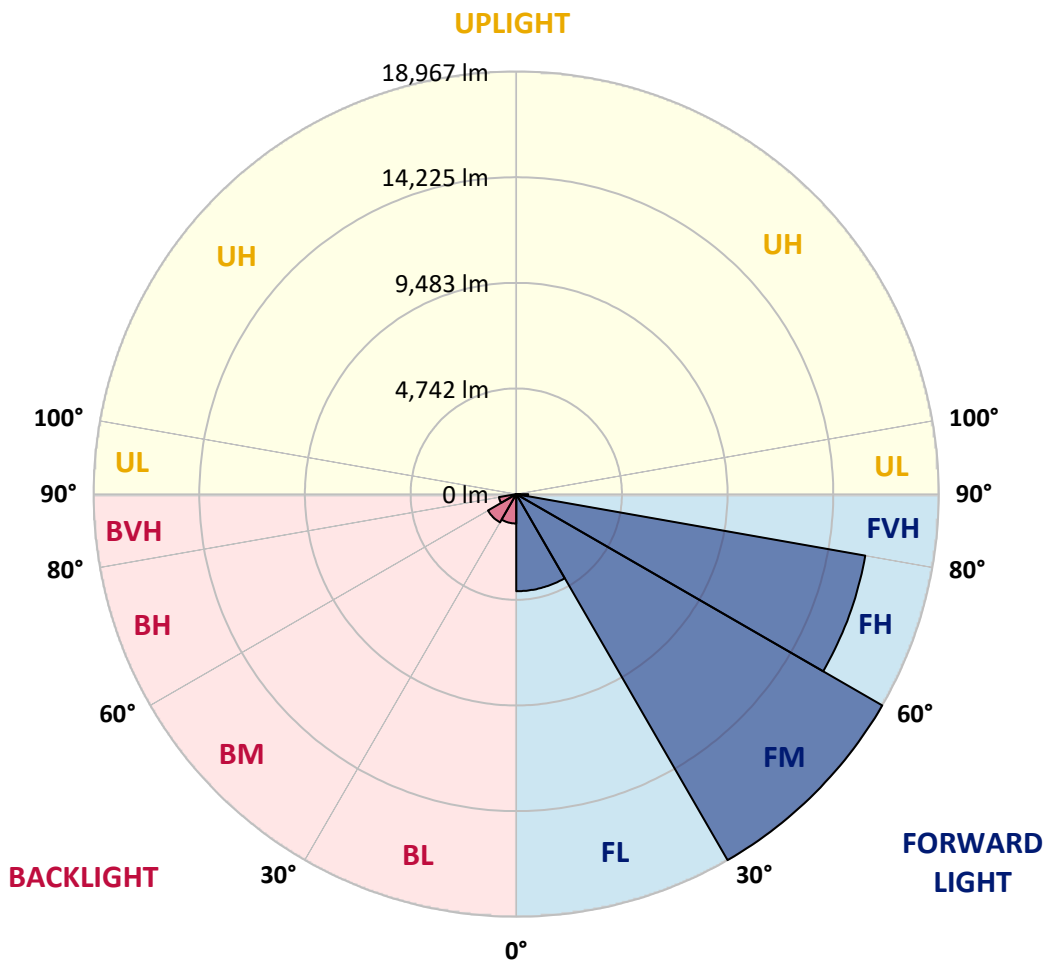
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4356.9	10.1			
FM (30°-60°)	18966.6	43.8			
FH (60°-80°)	15904.9	36.7			G5
FVH (80°-90°)	529.5	1.2			G4/750
BL (0°-30°)	1319.4	3.0	B3/2500		
BM (30°-60°)	1466.5	3.4	B2/2500		
BH (60°-80°)	787.6	1.8	B2/1000		G2/1000
BVH (80°-90°)	8.9	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	12278.9	12278.9	12278.9	12278.9	12278.9	12278.9	12278.9	12278.9	12278.9	12278.9	12278.9
2.5°	13360.6	13406.7	13447.0	13372.2	13435.4	13343.4	13107.5	13055.7	13015.4	12664.4	12463.0
5°	13354.9	13303.1	13343.4	13377.9	13291.6	13360.6	13303.1	13308.9	13153.5	12837.0	12273.1
7.5°	12463.0	12440.0	12463.0	12629.9	12819.8	12969.4	13055.7	13142.0	13038.4	12566.6	12020.0
10°	11260.5	11375.5	11438.8	11738.0	12031.5	12307.7	12578.1	12739.2	12710.4	12520.6	11743.8
12.5°	10420.4	10385.9	10616.0	10811.6	11105.1	11663.2	12135.1	12284.7	12457.3	12192.6	11381.3
15°	9643.6	9551.5	9689.6	10029.1	10529.7	10972.8	11634.5	11858.9	12077.5	12146.6	11185.7
17.5°	8901.3	8947.4	9091.2	9396.2	9868.0	10489.4	11110.9	11433.1	11956.7	11864.6	10892.2
20°	8544.6	8642.4	8694.2	8849.6	9177.5	9799.0	10725.3	10984.3	11542.4	11858.9	10604.5
22.5°	8561.9	8561.9	8441.0	8533.1	8832.3	9315.6	10201.7	10489.4	11375.5	11559.7	10345.6
25°	8746.0	8630.9	8636.7	8527.3	8653.9	8918.6	9729.9	10080.9	11036.1	11588.4	10207.5
27.5°	8884.1	8861.1	8826.5	8797.8	8636.7	8676.9	9419.2	9706.9	10903.7	11553.9	9994.6
30°	9384.7	9281.1	9246.6	9183.3	8970.4	8774.8	9171.8	9534.3	10800.1	11634.5	9873.8
32.5°	9804.7	9822.0	9850.7	9666.6	9482.5	8999.2	9240.8	9528.5	10725.3	11818.6	9994.6
35°	10334.1	10408.9	10420.4	10362.8	10167.2	9689.6	9528.5	9775.9	10851.9	12146.6	10006.1
37.5°	11139.6	11059.1	11277.7	11300.7	11162.6	10529.7	10196.0	10293.8	11225.9	12670.2	10443.4
40°	11663.2	11761.0	12169.6	12422.8	12186.8	11611.4	11162.6	11145.4	11766.8	13493.0	10984.3
42.5°	12244.4	12463.0	12911.8	13458.5	13429.7	12894.6	12440.0	12365.2	12727.7	14684.0	11841.6
45°	13038.4	13234.1	13861.2	14684.0	15132.9	14678.3	13993.6	13844.0	13895.8	16306.7	13303.1
47.5°	14356.1	14304.3	15207.7	16019.0	16755.5	16404.5	16111.0	15673.7	15633.4	18217.0	15322.7
50°	15846.3	15834.8	16640.4	17561.0	18412.6	19097.3	18608.2	18130.7	18142.2	20812.0	17699.1
52.5°	17261.8	17486.2	18355.1	19269.9	20731.4	21467.9	21939.8	21749.9	20835.0	23130.8	20242.4
55°	18009.8	18205.5	19068.5	20645.1	22952.5	24845.5	26122.9	25961.8	24195.3	25743.1	22751.1
57.5°	17302.1	17434.4	18602.5	20668.1	24506.0	28729.4	29955.0	29753.6	27670.7	27739.7	25783.4
60°	14338.8	14546.0	16283.6	18706.1	23901.9	31721.5	35231.4	34926.4	30835.3	30265.7	27734.0
62.5°	9931.3	10069.4	11496.4	14511.4	21036.4	32762.9	40214.3	40381.1	34172.6	32233.6	28315.1
65°	6432.9	6421.4	7238.5	9281.1	14908.5	29609.8	43160.3	44196.0	37394.8	32532.8	28136.8
67°	4545.6	4528.3	4913.9	6294.8	10322.6	24396.7	43108.5	45335.3	39144.0	32619.1	26485.4
67.5°	4194.6	4177.4	4545.6	5788.5	9315.6	22687.8	42464.1	44748.4	39759.7	32498.2	25760.4
70°	3256.7	3210.7	3348.8	3987.5	5426.0	14672.5	36341.9	41106.1	38482.3	29483.2	20570.3
72.5°	2353.4	2405.1	2623.8	3274.0	4257.9	7894.4	27699.5	33240.5	32141.5	22221.7	13072.9
75°	1639.9	1685.9	2036.9	2669.8	3906.9	4787.3	18729.1	24109.0	22388.6	12267.4	5569.8
77.5°	857.3	914.9	1300.4	2134.7	3550.2	3705.5	11191.4	15288.2	11864.6	4367.2	1536.3
80°	397.0	425.8	650.2	1513.3	2969.0	3256.7	6525.0	8504.3	4747.0	978.2	529.4
82.5°	172.6	189.9	299.2	868.8	2105.9	2848.2	4039.3	4459.3	1720.4	316.5	328.0
85°	34.5	40.3	115.1	460.3	1018.4	1726.2	2836.7	2646.8	863.1	155.4	258.9
87.5°	0.0	0.0	28.8	132.3	276.2	512.1	1202.6	1202.6	264.7	80.6	97.8
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°	12278.9	12278.9	12278.9	12278.9	12278.9	12278.9	12278.9	12278.9	12278.9	12278.9	12278.9
2.5°	12284.7	12077.5	11623.0	11202.9	10903.7	10564.2	10115.4	9914.0	9839.2	9735.7	9580.3
5°	11962.4	11709.3	10932.5	10149.9	9292.6	8642.4	7951.9	7549.2	7244.2	7054.3	6991.0
7.5°	11507.9	10990.0	9942.8	8688.4	7577.9	6611.3	5564.1	4856.3	4401.8	4217.6	4045.0
10°	11145.4	10472.2	8878.3	7319.0	5840.2	4424.8	3245.2	2623.8	2152.0	1973.6	1950.6
12.5°	10673.6	9868.0	7882.9	5920.8	4062.3	2635.3	1795.2	1559.3	1427.0	1404.0	1386.7
15°	10282.3	9321.4	6939.2	4585.9	2629.5	1645.6	1398.2	1340.7	1306.1	1294.6	1300.4
17.5°	10017.6	8734.5	5972.6	3337.3	1731.9	1346.4	1288.9	1254.4	1237.1	1231.3	1214.1
20°	9494.0	8239.6	5017.4	2336.1	1352.2	1242.9	1196.8	1168.0	1150.8	1145.0	1139.3
22.5°	9194.8	7612.5	4062.3	1628.4	1202.6	1127.8	1093.2	1070.2	1041.5	1024.2	1018.4
25°	8895.6	7152.1	3210.7	1265.9	1093.2	1041.5	989.7	960.9	914.9	891.9	886.1
27.5°	8544.6	6697.6	2474.2	1099.0	983.9	932.1	880.4	834.3	776.8	753.8	742.3
30°	8343.2	6254.5	1864.3	983.9	903.4	834.3	771.0	713.5	650.2	609.9	598.4
32.5°	8239.6	5851.8	1398.2	897.6	817.1	742.3	661.7	592.7	535.1	500.6	494.8
35°	8113.1	5460.5	1099.0	817.1	736.5	655.9	575.4	506.3	448.8	420.0	408.5
37.5°	8245.4	5230.3	914.9	753.8	673.2	581.1	494.8	425.8	379.8	351.0	345.2
40°	8607.9	5040.4	794.0	696.2	609.9	512.1	431.5	362.5	322.2	299.2	287.7
42.5°	9166.0	5040.4	719.2	638.7	552.4	448.8	368.3	316.5	276.2	253.2	247.4
45°	10178.7	5195.8	655.9	581.1	483.3	385.5	316.5	264.7	224.4	201.4	195.6
47.5°	11599.9	5552.5	604.2	529.4	431.5	339.5	276.2	224.4	184.1	161.1	155.4
50°	13510.2	6363.9	552.4	466.1	385.5	293.5	230.2	178.4	143.8	120.8	115.1
52.5°	15892.4	7514.6	500.6	431.5	328.0	247.4	184.1	143.8	109.3	92.1	86.3
55°	18412.6	8924.4	437.3	385.5	281.9	207.1	149.6	109.3	80.6	69.0	63.3
57.5°	20950.1	10011.9	385.5	333.7	230.2	166.9	120.8	86.3	57.5	46.0	40.3
60°	22296.5	10115.4	333.7	276.2	184.1	132.3	92.1	63.3	40.3	28.8	23.0
62.5°	22503.6	9194.8	287.7	224.4	149.6	103.6	63.3	46.0	23.0	11.5	11.5
65°	21439.2	7664.2	247.4	178.4	115.1	74.8	46.0	28.8	11.5	5.8	0.0
67°	19713.0	6421.4	212.9	149.6	92.1	57.5	34.5	17.3	5.8	0.0	0.0
67.5°	19045.5	6076.2	201.4	138.1	86.3	51.8	28.8	17.3	5.8	0.0	0.0
70°	14781.9	4338.5	149.6	97.8	63.3	40.3	23.0	11.5	0.0	0.0	0.0
72.5°	9056.7	2537.5	115.1	69.0	46.0	28.8	17.3	5.8	0.0	0.0	0.0
75°	3797.6	874.6	97.8	51.8	34.5	17.3	11.5	5.8	0.0	0.0	0.0
77.5°	989.7	328.0	69.0	34.5	23.0	17.3	11.5	5.8	0.0	0.0	0.0
80°	402.8	149.6	46.0	23.0	23.0	17.3	11.5	5.8	0.0	0.0	0.0
82.5°	264.7	69.0	28.8	23.0	17.3	11.5	5.8	0.0	0.0	0.0	0.0
85°	201.4	40.3	17.3	17.3	11.5	5.8	0.0	0.0	0.0	0.0	0.0
87.5°	86.3	23.0	17.3	11.5	11.5	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)