

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: P484463

Luminaire Tested: **IFLD-L-SA7D-750-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484463
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-750-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

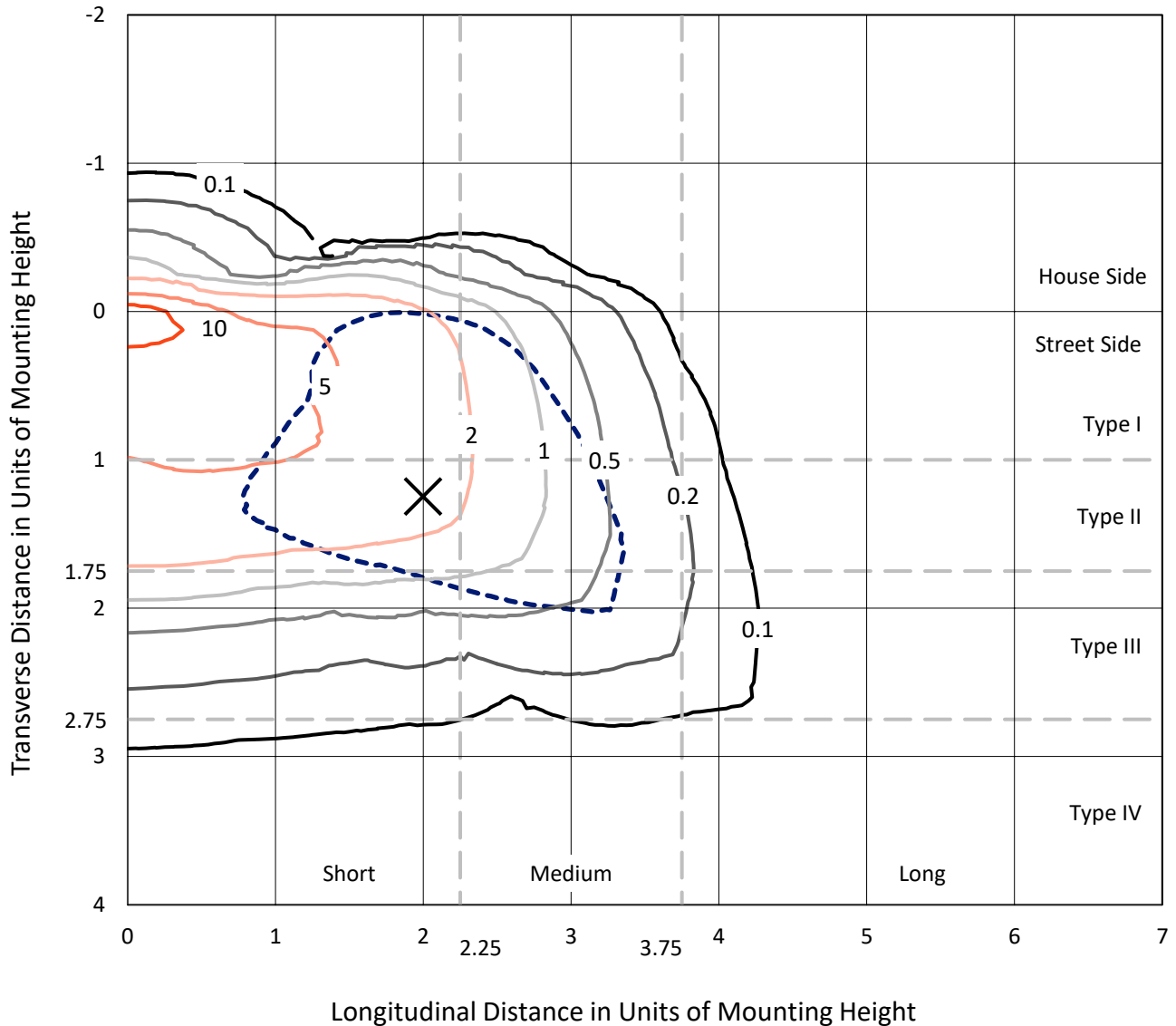
Lumens per Lamp: N/A
Luminaire Lumens: 41727.9 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

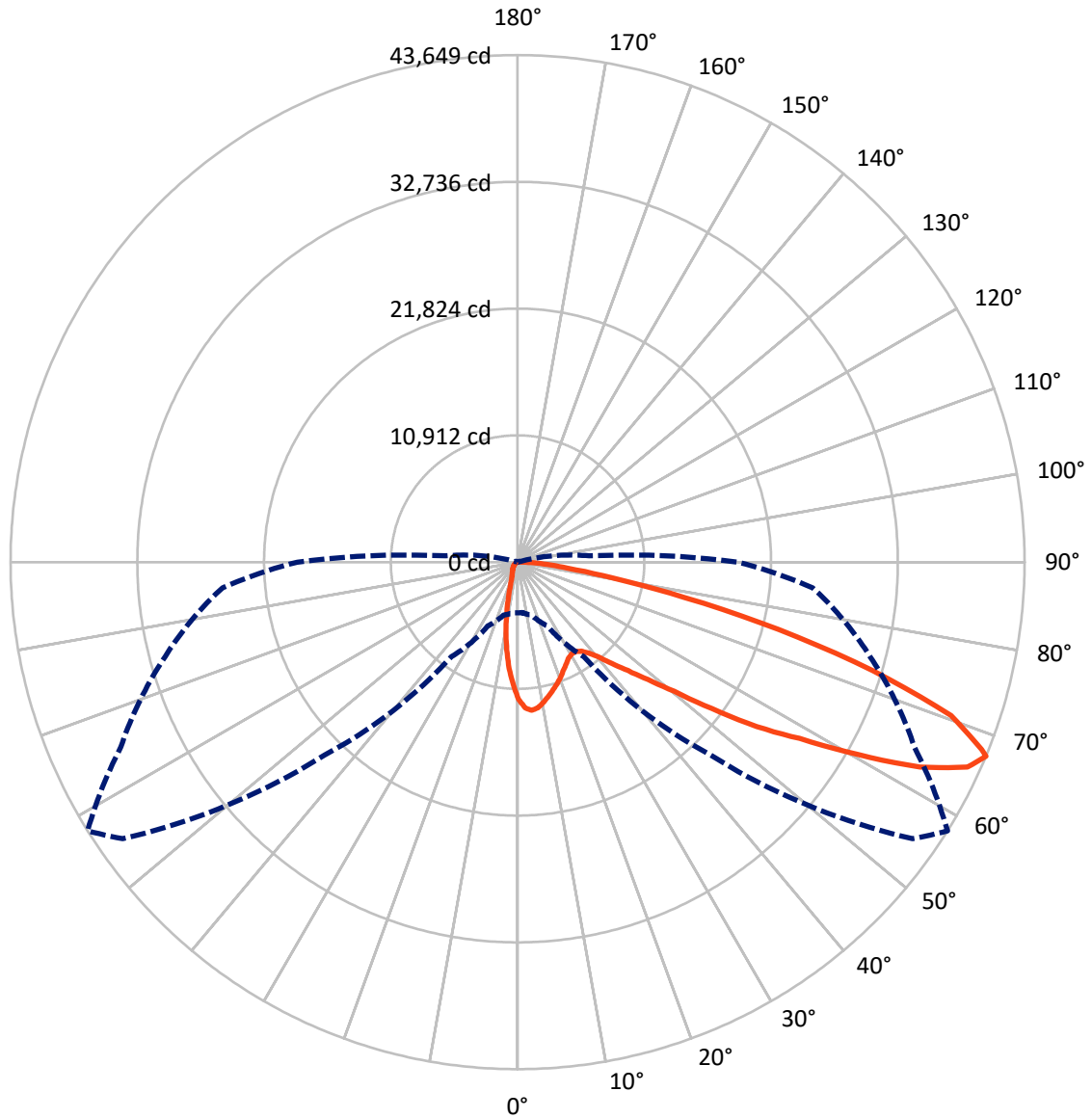
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.2 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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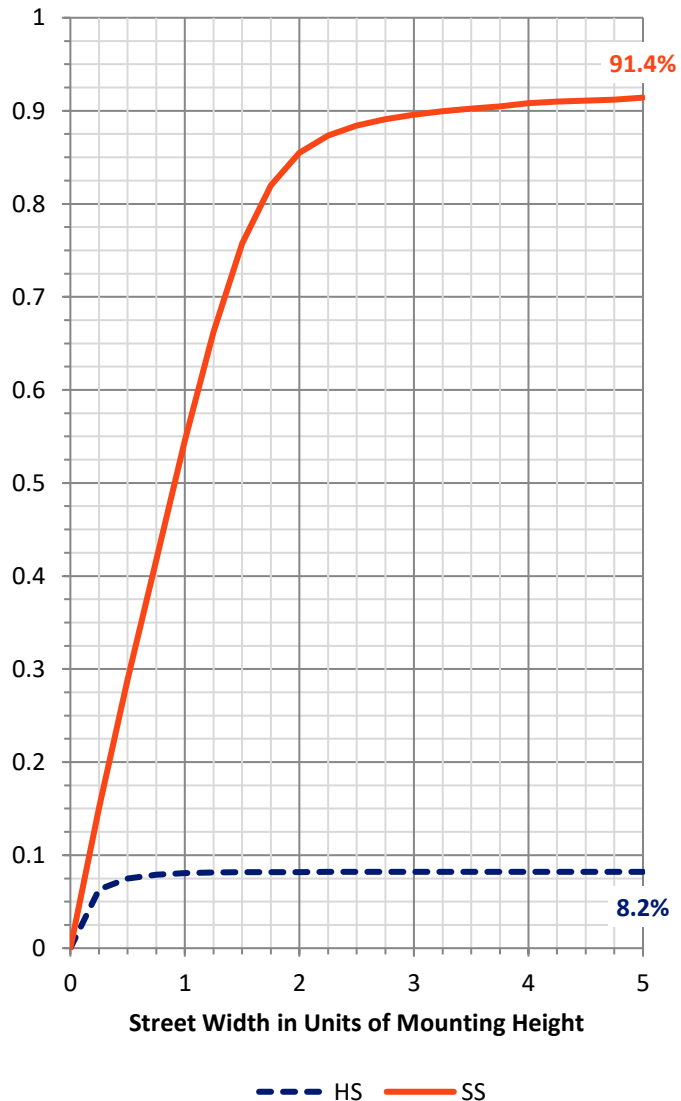
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3449.1	0.0	3449.1
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	38278.8	0.0	38278.8
	% Fixture	91.7	0.0	91.7
Total	Lumens	41727.9	0.0	41727.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	938.0	2.2
10°-20°	1945.7	4.7
20°-30°	2581.5	6.2
30°-40°	3577.1	8.6
40°-50°	5836.7	14.0
50°-60°	10259.1	24.6
60°-70°	11362.8	27.2
70°-80°	4708.7	11.3
80°-90°	518.3	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°	41727.9	100.0
0°-180°	41727.9	100.0

Coefficient of Utilization



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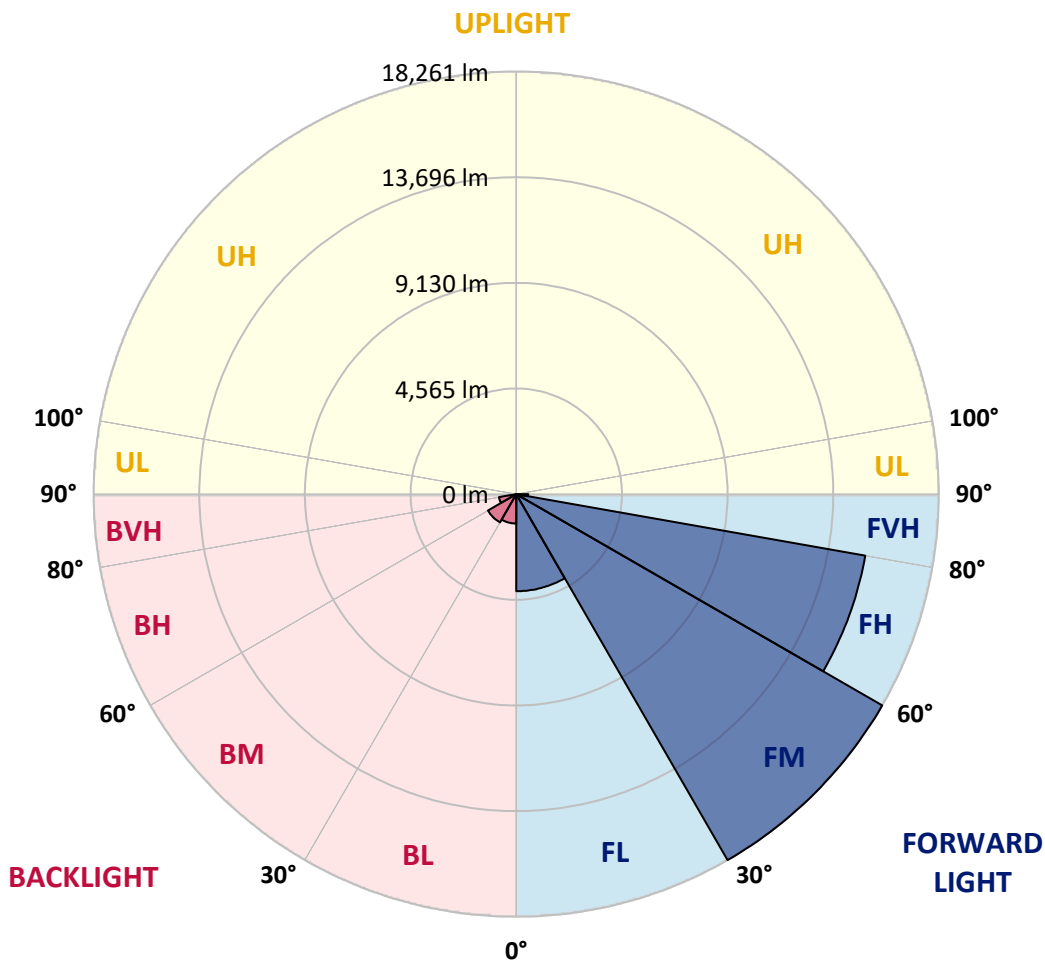
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4194.8	10.1			
FM (30°-60°)	18261.0	43.8			
FH (60°-80°)	15313.2	36.7			G5
FVH (80°-90°)	509.8	1.2			G4/750
BL (0°-30°)	1270.3	3.0	B3/2500		
BM (30°-60°)	1411.9	3.4	B2/2500		
BH (60°-80°)	758.3	1.8	B2/1000		G2/1000
BVH (80°-90°)	8.5	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°	11822.1	11822.1	11822.1	11822.1	11822.1	11822.1	11822.1	11822.1	11822.1	11822.1	11822.1
2.5°	12863.6	12907.9	12946.7	12874.7	12935.6	12847.0	12619.8	12570.0	12531.2	12193.2	11999.4
5°	12858.0	12808.2	12847.0	12880.2	12797.1	12863.6	12808.2	12813.7	12664.1	12359.4	11816.5
7.5°	11999.4	11977.2	11999.4	12160.0	12342.8	12486.9	12570.0	12653.1	12553.3	12099.1	11572.8
10°	10841.5	10952.3	11013.3	11301.3	11583.9	11849.8	12110.2	12265.3	12237.6	12054.8	11306.9
12.5°	10032.7	9999.5	10221.1	10409.4	10691.9	11229.3	11683.6	11827.6	11993.8	11739.0	10957.9
15°	9284.8	9196.2	9329.1	9656.0	10138.0	10564.5	11201.6	11417.7	11628.2	11694.7	10769.5
17.5°	8570.2	8614.5	8753.0	9046.6	9500.9	10099.2	10697.5	11007.7	11511.8	11423.2	10487.0
20°	8226.7	8320.9	8370.7	8520.3	8836.1	9434.4	10326.3	10575.6	11113.0	11417.7	10210.0
22.5°	8243.3	8243.3	8127.0	8215.6	8503.7	8969.0	9822.2	10099.2	10952.3	11129.6	9960.7
25°	8420.6	8309.8	8315.3	8210.1	8332.0	8586.8	9367.9	9705.8	10625.5	11157.3	9827.7
27.5°	8553.6	8531.4	8498.2	8470.5	8315.3	8354.1	9068.8	9345.8	10498.0	11124.1	9622.8
30°	9035.5	8935.8	8902.6	8841.6	8636.7	8448.3	8830.5	9179.6	10398.3	11201.6	9506.4
32.5°	9439.9	9456.6	9484.3	9307.0	9129.7	8664.4	8897.0	9174.0	10326.3	11378.9	9622.8
35°	9949.6	10021.6	10032.7	9977.3	9788.9	9329.1	9174.0	9412.2	10448.2	11694.7	9633.8
37.5°	10725.2	10647.6	10858.1	10880.3	10747.3	10138.0	9816.6	9910.8	10808.3	12198.8	10054.9
40°	11229.3	11323.5	11716.8	11960.6	11733.4	11179.5	10747.3	10730.7	11329.0	12991.0	10575.6
42.5°	11788.8	11999.4	12431.5	12957.8	12930.1	12414.8	11977.2	11905.2	12254.2	14137.7	11401.0
45°	12553.3	12741.7	13345.5	14137.7	14569.9	14132.2	13473.0	13328.9	13378.8	15700.0	12808.2
47.5°	13822.0	13772.1	14641.9	15423.0	16132.1	15794.2	15511.6	15090.6	15051.8	17539.2	14752.7
50°	15256.8	15245.7	16021.3	16907.7	17727.6	18386.8	17915.9	17456.1	17467.2	20037.7	17040.6
52.5°	16619.6	16835.7	17672.2	18553.0	19960.1	20669.2	21123.5	20940.7	20059.9	22270.3	19489.3
55°	17339.8	17528.1	18359.1	19877.0	22098.5	23921.1	25151.0	24995.9	23295.1	24785.4	21904.6
57.5°	16658.4	16785.8	17910.4	19899.2	23594.3	27660.6	28840.6	28646.7	26641.2	26707.7	24824.1
60°	13805.4	14004.8	15677.8	18010.1	23012.6	30541.3	33920.6	33627.0	29688.2	29139.7	26702.2
62.5°	9561.8	9694.8	11068.7	13971.5	20253.8	31544.0	38718.1	38878.8	32901.3	31034.3	27261.7
65°	6193.6	6182.5	6969.2	8935.8	14353.8	28508.2	41554.5	42551.7	36003.6	31322.4	27090.0
67°	4376.5	4359.9	4731.0	6060.6	9938.5	23489.0	41504.7	43648.6	37687.7	31405.5	25500.0
67.5°	4038.6	4021.9	4376.5	5573.1	8969.0	21843.7	40884.2	43083.6	38280.5	31289.2	24802.0
70°	3135.6	3091.2	3224.2	3839.1	5224.1	14126.7	34989.8	39576.8	37050.6	28386.3	19805.0
72.5°	2265.8	2315.7	2526.2	3152.2	4099.5	7600.7	26668.9	32003.8	30945.7	21395.0	12586.6
75°	1578.9	1623.2	1961.1	2570.5	3761.6	4609.2	18032.3	23212.0	21555.6	11811.0	5362.6
77.5°	825.4	880.8	1252.0	2055.3	3418.1	3567.7	10775.0	14719.4	11423.2	4204.8	1479.1
80°	382.3	410.0	626.0	1457.0	2858.6	3135.6	6282.2	8187.9	4570.4	941.8	509.7
82.5°	166.2	182.8	288.1	836.5	2027.6	2742.2	3889.0	4293.4	1656.4	304.7	315.8
85°	33.2	38.8	110.8	443.2	980.6	1662.0	2731.2	2548.3	831.0	149.6	249.3
87.5°	0.0	0.0	27.7	127.4	265.9	493.0	1157.8	1157.8	254.8	77.6	94.2
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°	11822.1	11822.1	11822.1	11822.1	11822.1	11822.1	11822.1	11822.1	11822.1	11822.1	11822.1
2.5°	11827.6	11628.2	11190.5	10786.1	10498.0	10171.2	9739.1	9545.2	9473.2	9373.5	9223.9
5°	11517.4	11273.6	10525.7	9772.3	8946.9	8320.9	7656.1	7268.3	6974.7	6791.9	6730.9
7.5°	11079.7	10581.1	9572.9	8365.2	7296.0	6365.3	5357.1	4675.6	4238.0	4060.7	3894.5
10°	10730.7	10082.6	8548.0	7046.7	5623.0	4260.2	3124.5	2526.2	2071.9	1900.2	1878.0
12.5°	10276.5	9500.9	7589.6	5700.5	3911.1	2537.3	1728.4	1501.3	1373.9	1351.7	1335.1
15°	9899.7	8974.6	6681.1	4415.3	2531.7	1584.4	1346.2	1290.8	1257.5	1246.5	1252.0
17.5°	9644.9	8409.5	5750.4	3213.1	1667.5	1296.3	1240.9	1207.7	1191.1	1185.5	1168.9
20°	9140.8	7933.1	4830.8	2249.2	1301.9	1196.6	1152.3	1124.6	1108.0	1102.4	1096.9
22.5°	8852.7	7329.2	3911.1	1567.8	1157.8	1085.8	1052.6	1030.4	1002.7	986.1	980.6
25°	8564.6	6886.1	3091.2	1218.8	1052.6	1002.7	952.9	925.2	880.8	858.7	853.1
27.5°	8226.7	6448.4	2382.1	1058.1	947.3	897.5	847.6	803.3	747.9	725.7	714.6
30°	8032.8	6021.8	1794.9	947.3	869.8	803.3	742.3	686.9	626.0	587.2	576.1
32.5°	7933.1	5634.0	1346.2	864.2	786.7	714.6	637.1	570.6	515.2	482.0	476.4
35°	7811.2	5257.3	1058.1	786.7	709.1	631.5	554.0	487.5	432.1	404.4	393.3
37.5°	7938.6	5035.7	880.8	725.7	648.2	559.5	476.4	410.0	365.6	337.9	332.4
40°	8287.6	4852.9	764.5	670.3	587.2	493.0	415.5	349.0	310.2	288.1	277.0
42.5°	8825.0	4852.9	692.5	614.9	531.8	432.1	354.6	304.7	265.9	243.8	238.2
45°	9800.0	5002.5	631.5	559.5	465.3	371.2	304.7	254.8	216.1	193.9	188.4
47.5°	11168.4	5346.0	581.7	509.7	415.5	326.9	265.9	216.1	177.3	155.1	149.6
50°	13007.6	6127.1	531.8	448.7	371.2	282.5	221.6	171.7	138.5	116.3	110.8
52.5°	15301.1	7235.1	482.0	415.5	315.8	238.2	177.3	138.5	105.3	88.6	83.1
55°	17727.6	8592.3	421.0	371.2	271.5	199.4	144.0	105.3	77.6	66.5	60.9
57.5°	20170.7	9639.4	371.2	321.3	221.6	160.7	116.3	83.1	55.4	44.3	38.8
60°	21467.0	9739.1	321.3	265.9	177.3	127.4	88.6	60.9	38.8	27.7	22.2
62.5°	21666.4	8852.7	277.0	216.1	144.0	99.7	60.9	44.3	22.2	11.1	11.1
65°	20641.5	7379.1	238.2	171.7	110.8	72.0	44.3	27.7	11.1	5.5	0.0
67°	18979.6	6182.5	205.0	144.0	88.6	55.4	33.2	16.6	5.5	0.0	0.0
67.5°	18337.0	5850.1	193.9	133.0	83.1	49.9	27.7	16.6	5.5	0.0	0.0
70°	14231.9	4177.1	144.0	94.2	60.9	38.8	22.2	11.1	0.0	0.0	0.0
72.5°	8719.8	2443.1	110.8	66.5	44.3	27.7	16.6	5.5	0.0	0.0	0.0
75°	3656.3	842.1	94.2	49.9	33.2	16.6	11.1	5.5	0.0	0.0	0.0
77.5°	952.9	315.8	66.5	33.2	22.2	16.6	11.1	5.5	0.0	0.0	0.0
80°	387.8	144.0	44.3	22.2	22.2	16.6	11.1	5.5	0.0	0.0	0.0
82.5°	254.8	66.5	27.7	22.2	16.6	11.1	5.5	0.0	0.0	0.0	0.0
85°	193.9	38.8	16.6	16.6	11.1	5.5	0.0	0.0	0.0	0.0	0.0
87.5°	83.1	22.2	16.6	11.1	11.1	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)