

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: P484851

Luminaire Tested: **IFLD-L-SA7B-750-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484851
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-750-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

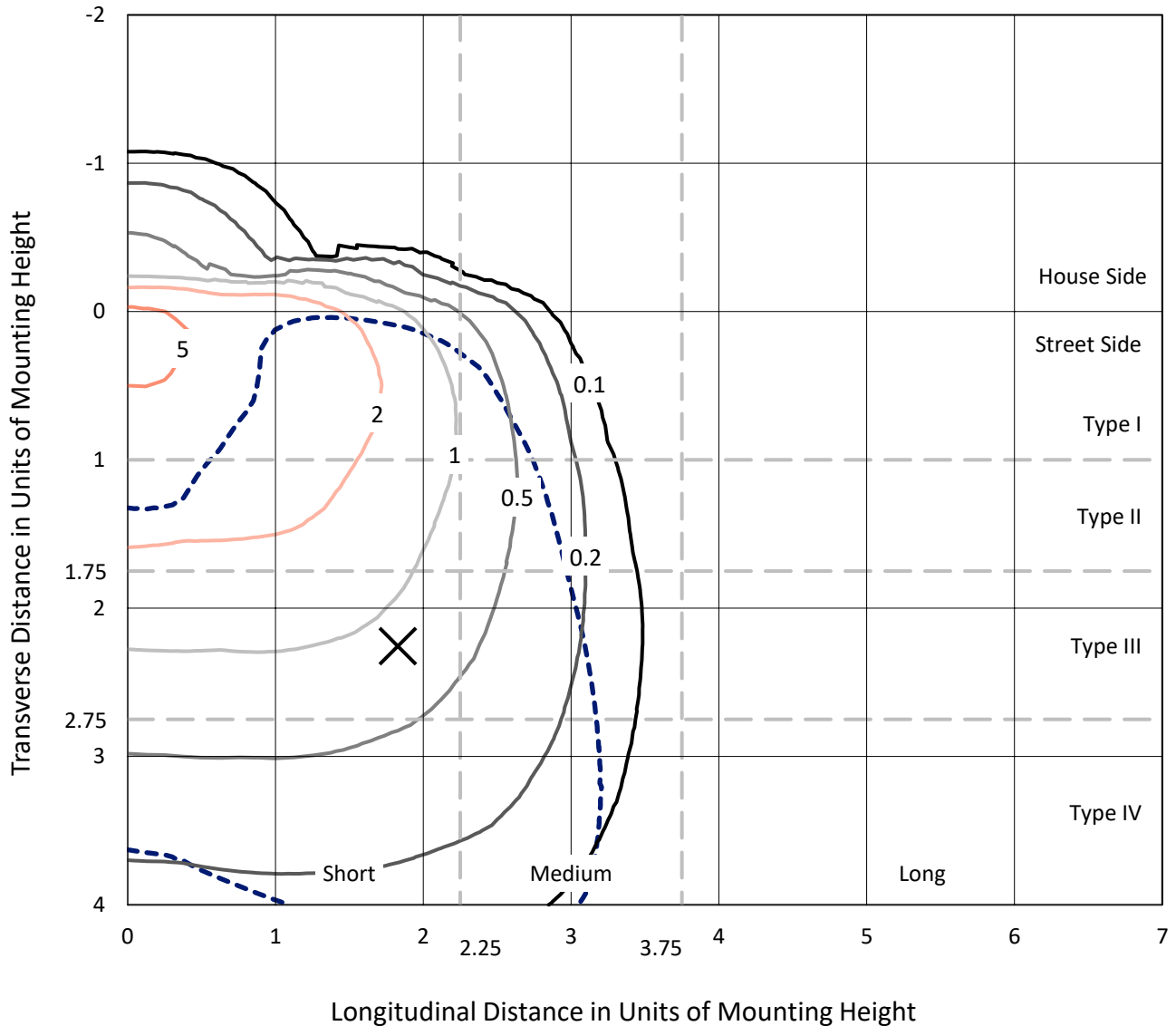
Lumens per Lamp: N/A
Luminaire Lumens: 30093.5 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 281
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

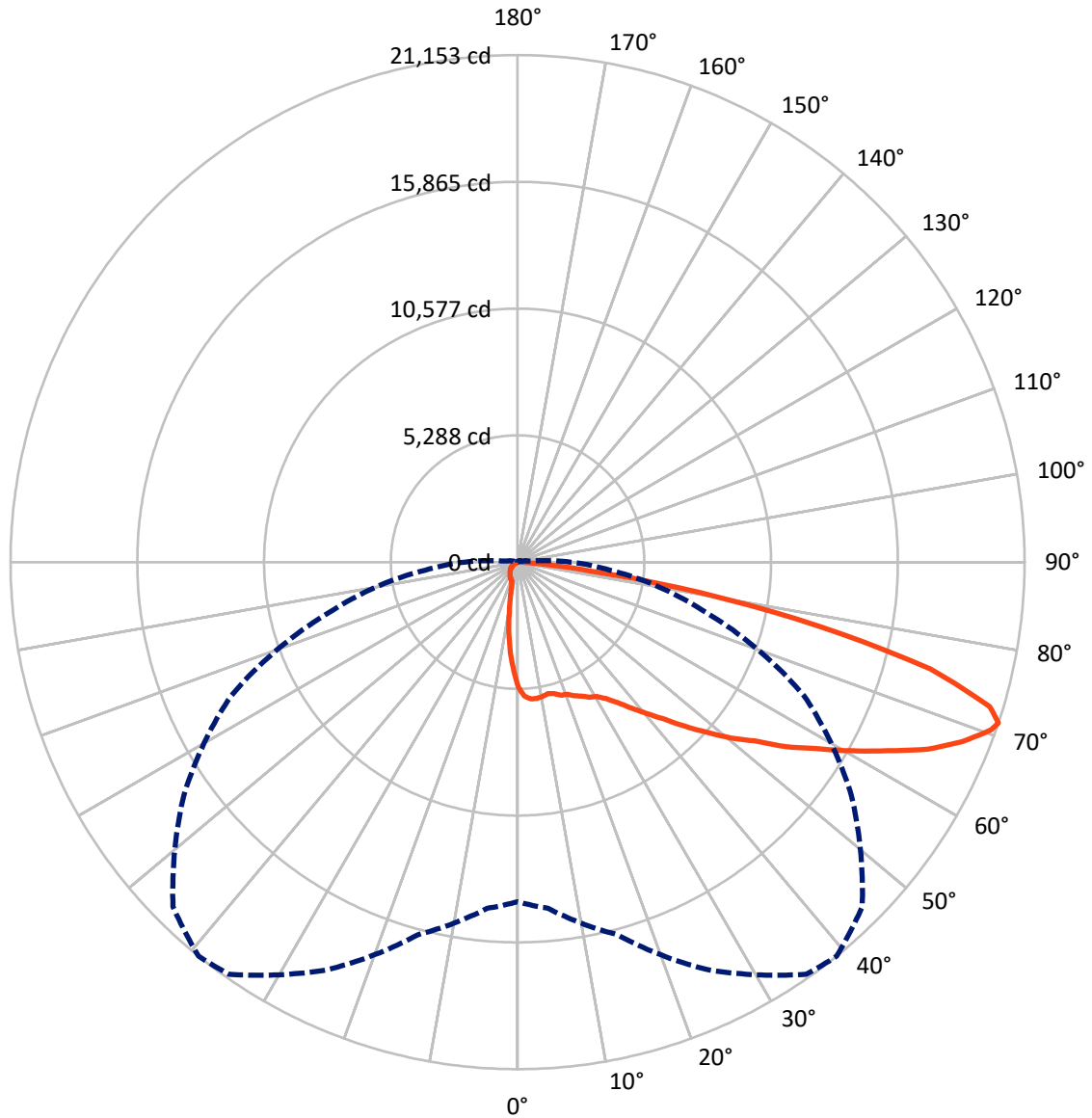
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 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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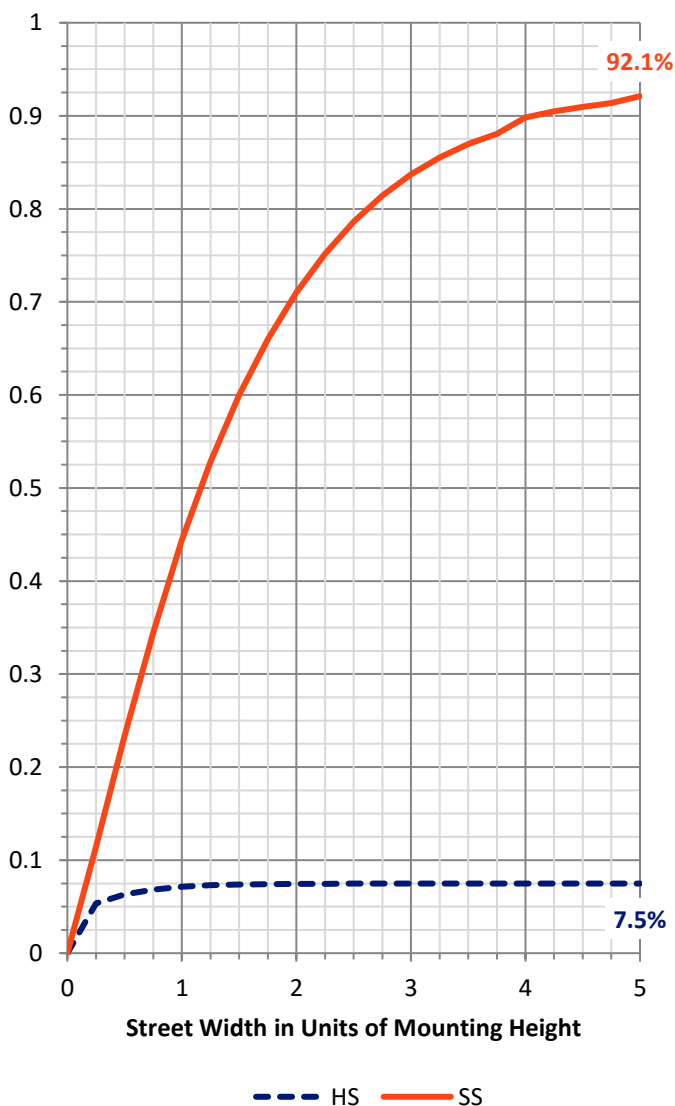
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2265.6	0.0	2265.6
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	27827.9	0.0	27827.9
	% Fixture	92.5	0.0	92.5
Total	Lumens	30093.5	0.0	30093.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.9	1.5
10°-20°	1077.9	3.6
20°-30°	1730.4	5.8
30°-40°	2648.8	8.8
40°-50°	4251.8	14.1
50°-60°	6245.2	20.8
60°-70°	7865.6	26.1
70°-80°	5249.3	17.4
80°-90°	586.6	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°	30093.5	100.0
0°-180°	30093.5	100.0

Coefficient of Utilization



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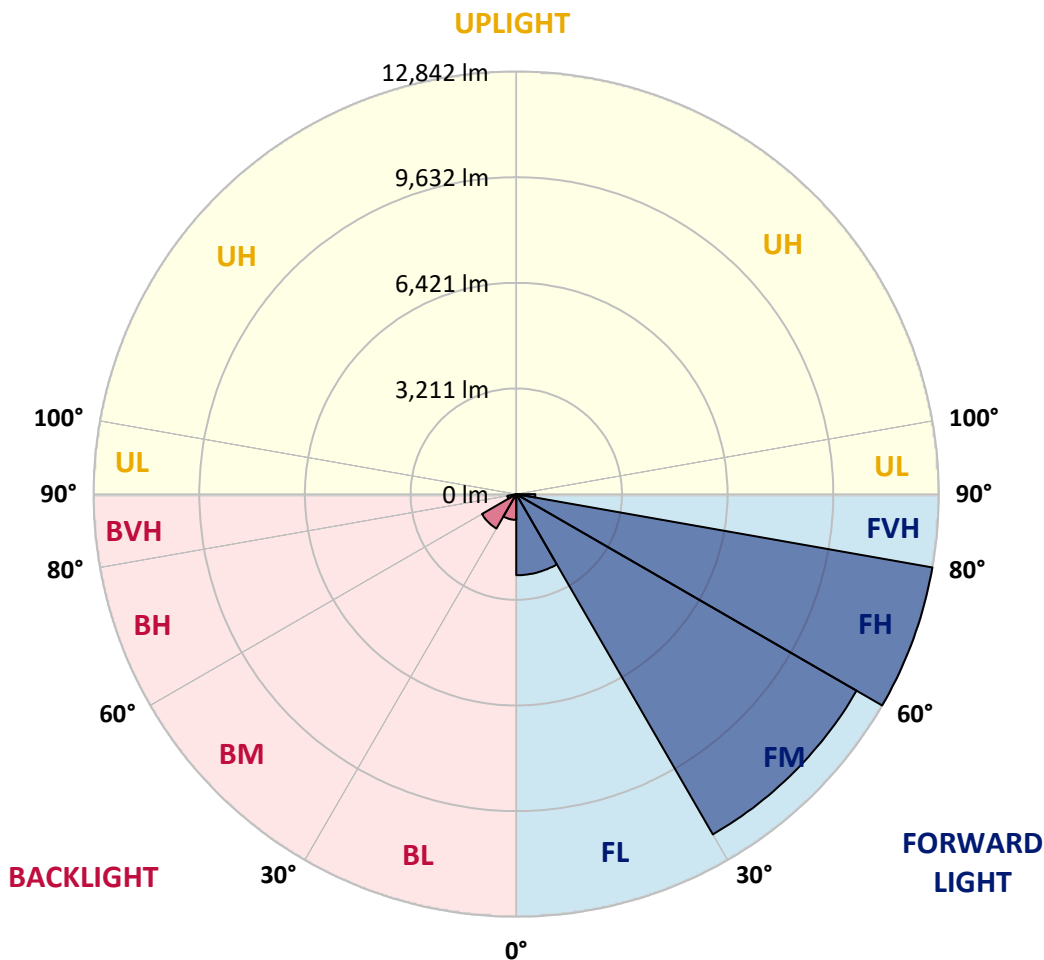
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2464.0	8.2			
FM (30°-60°)	11941.5	39.7			
FH (60°-80°)	12842.2	42.7			G5
FVH (80°-90°)	580.2	1.9			G4/750
BL (0°-30°)	782.2	2.6	B2/1000		
BM (30°-60°)	1204.2	4.0	B2/2500		
BH (60°-80°)	272.7	0.9	B1/500		G1/500
BVH (80°-90°)	6.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	5238.0	5238.0	5238.0	5238.0	5238.0	5238.0	5238.0	5238.0	5238.0	5238.0	5238.0
2.5°	5644.5	5699.8	5644.5	5620.8	5597.2	5601.1	5537.9	5549.8	5474.8	5376.1	5297.2
5°	5822.1	5897.1	5837.9	5810.3	5806.4	5731.4	5699.8	5624.8	5534.0	5380.1	5285.3
7.5°	5806.4	5790.6	5818.2	5794.5	5743.2	5743.2	5707.7	5601.1	5510.3	5336.6	5174.8
10°	5687.9	5735.3	5711.6	5684.0	5695.8	5699.8	5632.7	5557.7	5530.1	5356.4	5091.9
12.5°	5676.1	5597.2	5684.0	5687.9	5636.6	5632.7	5624.8	5605.1	5518.2	5360.3	5111.7
15°	5636.6	5605.1	5691.9	5695.8	5707.7	5695.8	5707.7	5691.9	5605.1	5514.3	5198.5
17.5°	5668.2	5632.7	5755.0	5814.3	5786.6	5841.9	5822.1	5751.1	5676.1	5569.5	5281.4
20°	5676.1	5727.4	5861.6	5885.3	5972.1	5881.4	5877.4	5802.4	5755.0	5640.6	5332.7
22.5°	5822.1	5845.8	6011.6	6062.9	6066.9	6055.0	5956.4	5869.5	5849.8	5707.7	5344.5
25°	6043.2	6126.1	6201.1	6232.7	6244.5	6189.2	6086.6	5976.1	5928.7	5837.9	5466.9
27.5°	6434.0	6382.7	6449.8	6497.1	6362.9	6382.7	6252.4	6157.7	6090.6	6011.6	5609.0
30°	6781.3	6734.0	6737.9	6730.0	6615.5	6509.0	6473.4	6307.7	6224.8	6256.3	5830.0
32.5°	7093.2	6990.5	7077.4	7037.9	6824.7	6793.2	6765.5	6556.3	6572.1	6718.2	6161.6
35°	7381.3	7345.8	7416.8	7345.8	7203.7	7195.8	7168.2	6986.6	7073.4	7282.6	6730.0
37.5°	7645.8	7657.6	7744.4	7708.9	7720.8	7728.7	7712.9	7519.5	7768.1	8237.8	7393.1
40°	7890.5	7874.7	8087.9	8198.4	8222.1	8308.9	8308.9	8261.5	8644.4	9173.3	8312.8
42.5°	8151.0	8190.5	8466.8	8652.3	8877.3	8952.3	9054.9	9078.6	9670.7	10274.6	9252.3
45°	8577.3	8510.2	8861.5	9299.7	9497.0	9761.5	9919.4	10053.6	10768.0	11596.9	10191.7
47.5°	9118.1	8983.9	9291.8	9927.3	10385.1	10602.2	10886.4	11064.1	11762.7	12619.3	11079.8
50°	9718.1	9579.9	9729.9	10606.2	11139.1	11533.8	11896.9	12121.9	12966.6	13764.0	11727.2
52.5°	10397.0	10270.7	10294.4	11312.7	12098.2	12386.4	12864.0	13199.5	14040.3	14454.7	11956.1
55°	11119.3	11087.7	11012.7	12003.5	12939.0	13586.3	13874.5	14277.1	15141.5	14829.7	12204.8
57.5°	11845.6	11746.9	11853.5	12919.3	14288.9	14675.8	15074.4	15315.2	15753.4	15157.3	12110.1
60°	12528.5	12536.4	12686.4	13914.0	15437.6	15986.2	16345.4	16199.4	16381.0	15299.4	11893.0
62.5°	13104.8	13089.0	13467.9	15031.0	16957.3	17328.3	17596.7	16945.4	16673.1	15437.6	11514.0
65°	13621.9	13799.5	14395.5	16361.2	18386.2	18812.5	18650.6	17652.0	16957.3	15031.0	10448.3
67.5°	14012.6	14277.1	15311.3	17612.5	19696.6	19996.6	19771.6	18188.8	16621.7	13436.3	8510.2
70°	14241.6	14510.0	15966.5	18654.6	20742.6	20959.7	20430.8	17774.3	14663.9	9729.9	5309.0
71°	14170.5	14498.1	16092.8	18765.1	20991.3	21153.2	20332.1	17008.6	13187.7	8147.1	3872.2
72.5°	13527.1	13835.0	15567.8	18686.1	20691.3	20592.6	19562.4	15169.2	10381.2	5194.5	2001.2
75°	9939.1	10270.7	13361.3	16163.9	18469.0	17790.1	15832.3	10645.7	5415.6	1590.7	584.2
77.5°	4949.8	5005.1	8293.1	11735.1	13546.9	12871.9	10610.1	5936.6	2024.9	469.7	292.1
80°	2281.5	2297.3	3110.4	6078.7	8190.5	7708.9	5944.5	2928.8	915.8	248.7	228.9
82.5°	1555.2	1578.9	1874.9	2518.3	3556.4	2999.9	2407.8	1874.9	525.0	150.0	225.0
85°	284.2	260.5	1050.0	1334.2	1373.6	931.5	832.9	1622.3	197.4	86.8	197.4
87.5°	0.0	3.9	146.0	544.7	489.5	217.1	284.2	394.7	19.7	27.6	35.5
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°	5238.0	5238.0	5238.0	5238.0	5238.0	5238.0	5238.0	5238.0	5238.0	5238.0	5238.0
2.5°	5230.1	5186.6	5040.6	4878.8	4732.7	4618.2	4472.2	4405.1	4298.5	4239.3	4235.4
5°	5155.1	5036.7	4784.0	4511.7	4207.7	3955.1	3674.9	3517.0	3335.4	3280.1	3268.3
7.5°	5028.8	4859.0	4488.0	4105.1	3639.3	3193.3	2849.9	2482.8	2257.8	2163.1	2127.6
10°	4949.8	4744.6	4239.3	3667.0	3015.7	2388.1	1906.5	1515.7	1310.5	1211.8	1188.1
12.5°	4949.8	4728.8	4038.0	3248.6	2384.1	1634.1	1180.2	955.2	888.1	864.4	864.4
15°	4938.0	4697.2	3844.6	2818.3	1764.4	1097.3	880.2	832.9	825.0	821.0	817.1
17.5°	4997.2	4641.9	3647.2	2356.5	1247.3	864.4	809.2	801.3	793.4	793.4	785.5
20°	5040.6	4610.4	3410.4	1867.0	931.5	801.3	777.6	765.8	761.8	757.9	765.8
22.5°	5005.1	4563.0	3118.3	1397.3	813.1	761.8	746.0	734.2	726.3	726.3	730.2
25°	5072.2	4519.6	2826.2	1053.9	761.8	726.3	710.5	702.6	698.7	694.7	686.8
27.5°	5163.0	4539.3	2478.9	848.7	718.4	690.8	675.0	667.1	663.1	655.2	663.1
30°	5273.5	4535.4	2096.0	742.1	678.9	651.3	635.5	631.6	623.7	619.7	623.7
32.5°	5463.0	4638.0	1701.3	686.8	635.5	611.8	596.0	592.1	588.1	584.2	580.2
35°	5869.5	4764.3	1330.2	643.4	596.0	568.4	556.6	548.7	544.7	540.8	536.8
37.5°	6370.8	5044.5	1014.4	603.9	556.6	528.9	517.1	513.1	497.3	493.4	489.5
40°	6998.4	5344.5	781.5	560.5	521.0	493.4	481.6	469.7	450.0	442.1	434.2
42.5°	7780.0	5636.6	643.4	521.0	481.6	461.8	442.1	422.4	406.6	390.8	382.9
45°	8561.5	5976.1	564.5	485.5	450.0	426.3	410.5	382.9	355.2	331.6	327.6
47.5°	9212.8	6098.5	517.1	446.0	418.4	398.7	375.0	339.5	300.0	276.3	272.4
50°	9698.3	6027.4	469.7	406.6	382.9	363.1	331.6	288.1	248.7	225.0	217.1
52.5°	9793.1	5715.6	426.3	375.0	347.4	323.7	288.1	240.8	197.4	173.7	169.7
55°	9726.0	5198.5	390.8	347.4	315.8	280.3	240.8	193.4	153.9	130.3	126.3
57.5°	9587.8	4586.7	351.3	311.8	276.3	240.8	197.4	157.9	114.5	90.8	90.8
60°	9118.1	3753.8	311.8	272.4	236.8	205.3	161.8	114.5	78.9	59.2	55.3
62.5°	8462.8	2885.4	272.4	232.9	205.3	169.7	126.3	82.9	47.4	31.6	31.6
65°	7266.8	2021.0	228.9	193.4	169.7	138.2	94.7	51.3	27.6	11.8	11.8
67.5°	5522.2	1251.3	189.5	161.8	146.0	110.5	67.1	31.6	11.8	3.9	0.0
70°	3169.6	651.3	150.0	130.3	114.5	82.9	47.4	15.8	7.9	0.0	0.0
71°	2214.4	481.6	134.2	114.5	102.6	75.0	39.5	11.8	3.9	0.0	0.0
72.5°	1109.2	319.7	114.5	94.7	82.9	59.2	31.6	11.8	3.9	0.0	0.0
75°	394.7	205.3	78.9	63.2	59.2	43.4	19.7	7.9	3.9	0.0	0.0
77.5°	272.4	165.8	55.3	39.5	39.5	27.6	11.8	3.9	3.9	0.0	0.0
80°	248.7	90.8	35.5	23.7	19.7	15.8	7.9	3.9	0.0	0.0	0.0
82.5°	248.7	67.1	19.7	15.8	11.8	7.9	3.9	0.0	0.0	0.0	0.0
85°	173.7	35.5	11.8	11.8	7.9	3.9	0.0	0.0	0.0	0.0	0.0
87.5°	27.6	11.8	7.9	3.9	3.9	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)