

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: P484802

Luminaire Tested: **IFLD-S-SA6B-740-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484802
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-740-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (96) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

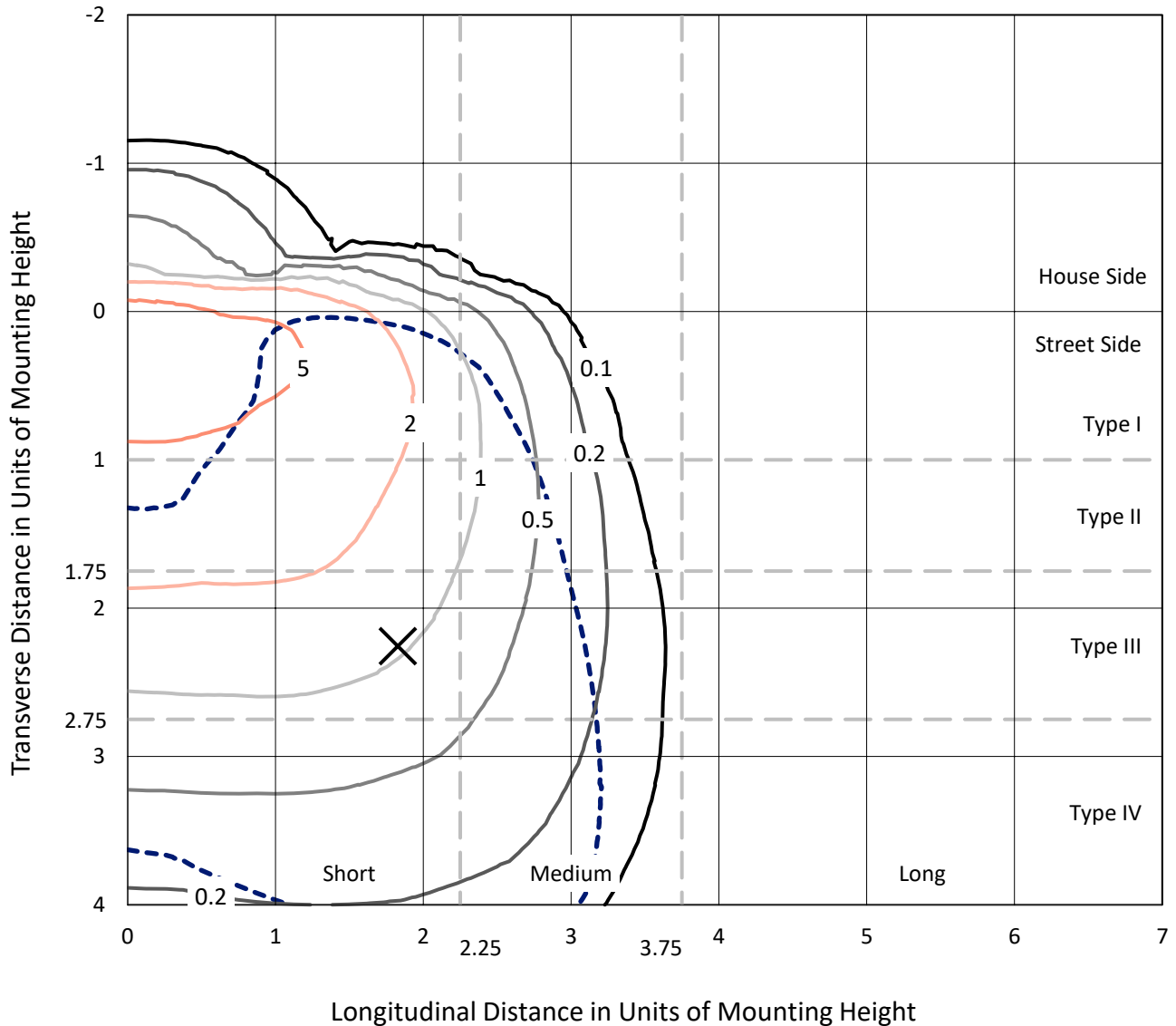
Lumens per Lamp: N/A
Luminaire Lumens: 27575.5 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 244.9
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

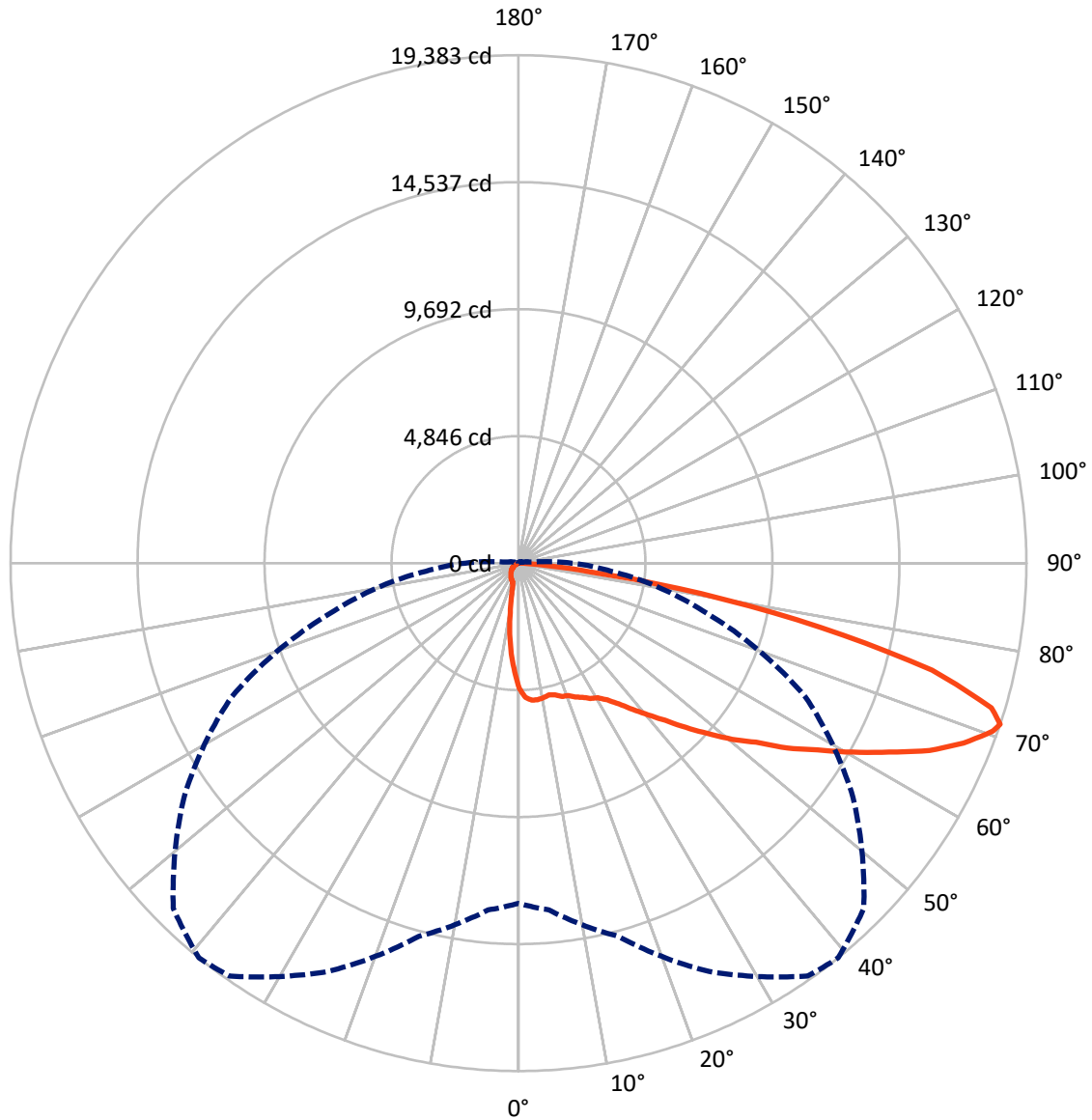
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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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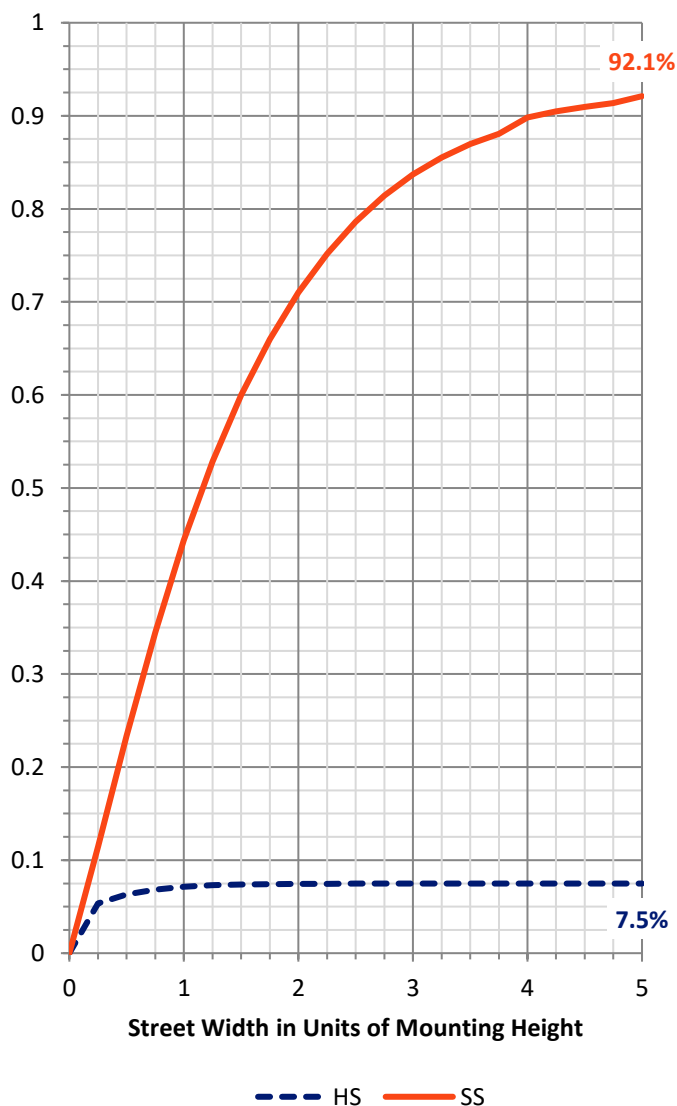
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2076.0	0.0	2076.0
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	25499.5	0.0	25499.5
	% Fixture	92.5	0.0	92.5
Total	Lumens	27575.5	0.0	27575.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.3	1.5
10°-20°	987.7	3.6
20°-30°	1585.6	5.8
30°-40°	2427.2	8.8
40°-50°	3896.0	14.1
50°-60°	5722.6	20.8
60°-70°	7207.5	26.1
70°-80°	4810.1	17.4
80°-90°	537.5	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°	27575.5	100.0
0°-180°	27575.5	100.0

Coefficient of Utilization



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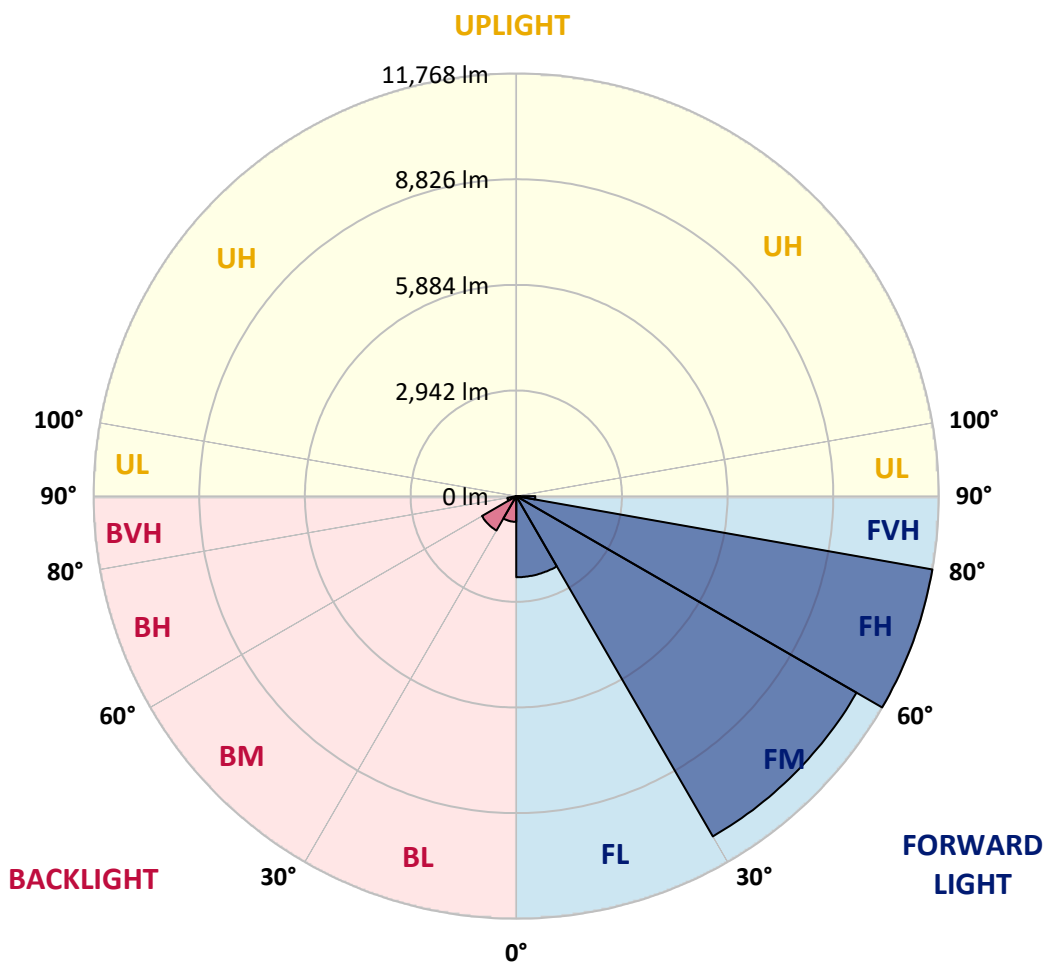
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2257.9	8.2			
FM (30°-60°)	10942.4	39.7			
FH (60°-80°)	11767.7	42.7			G4/12000
FVH (80°-90°)	531.6	1.9			G4/750
BL (0°-30°)	716.7	2.6	B2/1000		
BM (30°-60°)	1103.5	4.0	B2/2500		
BH (60°-80°)	249.9	0.9	B1/500		G1/500
BVH (80°-90°)	5.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4799.7	4799.7	4799.7	4799.7	4799.7	4799.7	4799.7	4799.7	4799.7	4799.7	4799.7
2.5°	5172.2	5222.9	5172.2	5150.5	5128.8	5132.5	5074.6	5085.4	5016.7	4926.3	4854.0
5°	5335.0	5403.7	5349.5	5324.2	5320.5	5251.8	5222.9	5154.2	5071.0	4929.9	4843.1
7.5°	5320.5	5306.1	5331.4	5309.7	5262.7	5262.7	5230.1	5132.5	5049.3	4890.1	4741.8
10°	5212.0	5255.4	5233.7	5208.4	5219.3	5222.9	5161.4	5092.7	5067.4	4908.2	4665.9
12.5°	5201.2	5128.8	5208.4	5212.0	5165.0	5161.4	5154.2	5136.1	5056.5	4911.8	4684.0
15°	5165.0	5136.1	5215.6	5219.3	5230.1	5219.3	5230.1	5215.6	5136.1	5052.9	4763.5
17.5°	5193.9	5161.4	5273.5	5327.8	5302.5	5353.1	5335.0	5269.9	5201.2	5103.5	4839.5
20°	5201.2	5248.2	5371.2	5392.9	5472.5	5389.3	5385.6	5316.9	5273.5	5168.6	4886.5
22.5°	5335.0	5356.7	5508.6	5555.6	5559.3	5548.4	5458.0	5378.4	5360.3	5230.1	4897.4
25°	5537.6	5613.5	5682.2	5711.2	5722.0	5671.4	5577.3	5476.1	5432.7	5349.5	5009.5
27.5°	5895.6	5848.6	5910.1	5953.5	5830.5	5848.6	5729.3	5642.4	5581.0	5508.6	5139.7
30°	6213.9	6170.5	6174.1	6166.9	6062.0	5964.4	5931.8	5779.9	5703.9	5732.9	5342.2
32.5°	6499.7	6405.6	6485.2	6449.0	6253.7	6224.8	6199.5	6007.8	6022.2	6156.1	5646.1
35°	6763.7	6731.2	6796.3	6731.2	6600.9	6593.7	6568.4	6402.0	6481.6	6673.3	6166.9
37.5°	7006.0	7016.9	7096.5	7063.9	7074.8	7082.0	7067.5	6890.3	7118.2	7548.6	6774.6
40°	7230.3	7215.8	7411.1	7512.4	7534.1	7613.7	7613.7	7570.3	7921.1	8405.8	7617.3
42.5°	7469.0	7505.2	7758.4	7928.4	8134.5	8203.3	8297.3	8319.0	8861.5	9414.9	8478.1
45°	7859.6	7798.2	8120.1	8521.5	8702.4	8944.7	9089.4	9212.4	9867.0	10626.6	9339.0
47.5°	8355.2	8232.2	8514.3	9096.6	9516.2	9715.1	9975.6	10138.3	10778.5	11563.4	10152.8
50°	8904.9	8778.3	8915.8	9718.8	10207.0	10568.7	10901.5	11107.7	11881.7	12612.3	10746.0
52.5°	9527.1	9411.3	9433.0	10366.2	11086.0	11350.0	11787.7	12095.1	12865.5	13245.3	10955.8
55°	10189.0	10160.0	10091.3	10999.2	11856.4	12449.6	12713.6	13082.5	13874.6	13588.9	11183.6
57.5°	10854.5	10764.1	10861.7	11838.3	13093.4	13447.8	13813.1	14033.8	14435.3	13889.1	11096.8
60°	11480.2	11487.4	11624.9	12749.8	14145.9	14648.7	14977.8	14844.0	15010.4	14019.3	10897.9
62.5°	12008.3	11993.8	12341.0	13773.4	15538.4	15878.4	16124.4	15527.6	15278.0	14145.9	10550.7
65°	12482.1	12644.9	13191.0	14992.3	16847.8	17238.4	17090.1	16175.0	15538.4	13773.4	9574.1
67.5°	12840.2	13082.5	14030.2	16138.8	18048.6	18323.5	18117.3	16666.9	15231.0	12312.1	7798.2
70°	13050.0	13295.9	14630.6	17093.7	19007.1	19206.0	18721.4	16287.1	13437.0	8915.8	4864.8
71°	12984.9	13285.1	14746.3	17195.0	19235.0	19383.3	18630.9	15585.5	12084.2	7465.4	3548.2
72.5°	12395.3	12677.4	14265.3	17122.7	18960.1	18869.6	17925.6	13900.0	9512.6	4759.9	1833.8
75°	9107.5	9411.3	12243.4	14811.4	16923.7	16301.6	14507.6	9754.9	4962.5	1457.6	535.3
77.5°	4535.7	4586.3	7599.2	10753.2	12413.4	11794.9	9722.4	5439.9	1855.5	430.4	267.7
80°	2090.6	2105.1	2850.2	5570.1	7505.2	7063.9	5447.1	2683.8	839.1	227.9	209.8
82.5°	1425.1	1446.8	1718.1	2307.6	3258.9	2748.9	2206.3	1718.1	481.1	137.4	206.2
85°	260.4	238.7	962.1	1222.5	1258.7	853.6	763.2	1486.6	180.8	79.6	180.8
87.5°	0.0	3.6	133.8	499.1	448.5	198.9	260.4	361.7	18.1	25.3	32.6
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°	4799.7	4799.7	4799.7	4799.7	4799.7	4799.7	4799.7	4799.7	4799.7	4799.7	4799.7
2.5°	4792.5	4752.7	4618.8	4470.6	4336.7	4231.8	4098.0	4036.5	3938.9	3884.6	3881.0
5°	4723.7	4615.2	4383.7	4134.2	3855.7	3624.2	3367.4	3222.7	3056.3	3005.7	2994.8
7.5°	4608.0	4452.5	4112.5	3761.6	3334.8	2926.1	2611.4	2275.1	2068.9	1982.1	1949.5
10°	4535.7	4347.6	3884.6	3360.1	2763.4	2188.3	1747.0	1388.9	1200.8	1110.4	1088.7
12.5°	4535.7	4333.1	3700.1	2976.8	2184.6	1497.4	1081.5	875.3	813.8	792.1	792.1
15°	4524.8	4304.2	3522.9	2582.5	1616.8	1005.5	806.6	763.2	755.9	752.3	748.7
17.5°	4579.1	4253.5	3342.1	2159.3	1143.0	792.1	741.5	734.2	727.0	727.0	719.8
20°	4618.8	4224.6	3125.0	1710.8	853.6	734.2	712.5	701.7	698.1	694.5	701.7
22.5°	4586.3	4181.2	2857.4	1280.4	745.1	698.1	683.6	672.8	665.5	665.5	669.1
25°	4647.8	4141.4	2589.7	965.7	698.1	665.5	651.1	643.8	640.2	636.6	629.3
27.5°	4731.0	4159.5	2271.4	777.6	658.3	633.0	618.5	611.3	607.6	600.4	607.6
30°	4832.3	4155.9	1920.6	680.0	622.1	596.8	582.3	578.7	571.5	567.9	571.5
32.5°	5005.9	4249.9	1558.9	629.3	582.3	560.6	546.2	542.5	538.9	535.3	531.7
35°	5378.4	4365.7	1218.9	589.6	546.2	520.8	510.0	502.8	499.1	495.5	491.9
37.5°	5837.8	4622.5	929.6	553.4	510.0	484.7	473.8	470.2	455.7	452.1	448.5
40°	6412.9	4897.4	716.2	513.6	477.4	452.1	441.3	430.4	412.3	405.1	397.9
42.5°	7129.0	5165.0	589.6	477.4	441.3	423.2	405.1	387.0	372.5	358.1	350.8
45°	7845.2	5476.1	517.2	444.9	412.3	390.6	376.2	350.8	325.5	303.8	300.2
47.5°	8442.0	5588.2	473.8	408.7	383.4	365.3	343.6	311.1	274.9	253.2	249.6
50°	8886.9	5523.1	430.4	372.5	350.8	332.8	303.8	264.0	227.9	206.2	198.9
52.5°	8973.7	5237.3	390.6	343.6	318.3	296.6	264.0	220.6	180.8	159.1	155.5
55°	8912.2	4763.5	358.1	318.3	289.4	256.8	220.6	177.2	141.1	119.4	115.7
57.5°	8785.6	4202.9	321.9	285.7	253.2	220.6	180.8	144.7	104.9	83.2	83.2
60°	8355.2	3439.7	285.7	249.6	217.0	188.1	148.3	104.9	72.3	54.3	50.6
62.5°	7754.7	2644.0	249.6	213.4	188.1	155.5	115.7	76.0	43.4	28.9	28.9
65°	6658.8	1851.9	209.8	177.2	155.5	126.6	86.8	47.0	25.3	10.9	10.9
67.5°	5060.1	1146.6	173.6	148.3	133.8	101.3	61.5	28.9	10.9	3.6	0.0
70°	2904.4	596.8	137.4	119.4	104.9	76.0	43.4	14.5	7.2	0.0	0.0
71°	2029.1	441.3	123.0	104.9	94.0	68.7	36.2	10.9	3.6	0.0	0.0
72.5°	1016.4	293.0	104.9	86.8	76.0	54.3	28.9	10.9	3.6	0.0	0.0
75°	361.7	188.1	72.3	57.9	54.3	39.8	18.1	7.2	3.6	0.0	0.0
77.5°	249.6	151.9	50.6	36.2	36.2	25.3	10.9	3.6	3.6	0.0	0.0
80°	227.9	83.2	32.6	21.7	18.1	14.5	7.2	3.6	0.0	0.0	0.0
82.5°	227.9	61.5	18.1	14.5	10.9	7.2	3.6	0.0	0.0	0.0	0.0
85°	159.1	32.6	10.9	10.9	7.2	3.6	0.0	0.0	0.0	0.0	0.0
87.5°	25.3	10.9	7.2	3.6	3.6	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)