

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: P484456

Luminaire Tested: **IFLD-M-SA4B-750-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484456  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-750-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

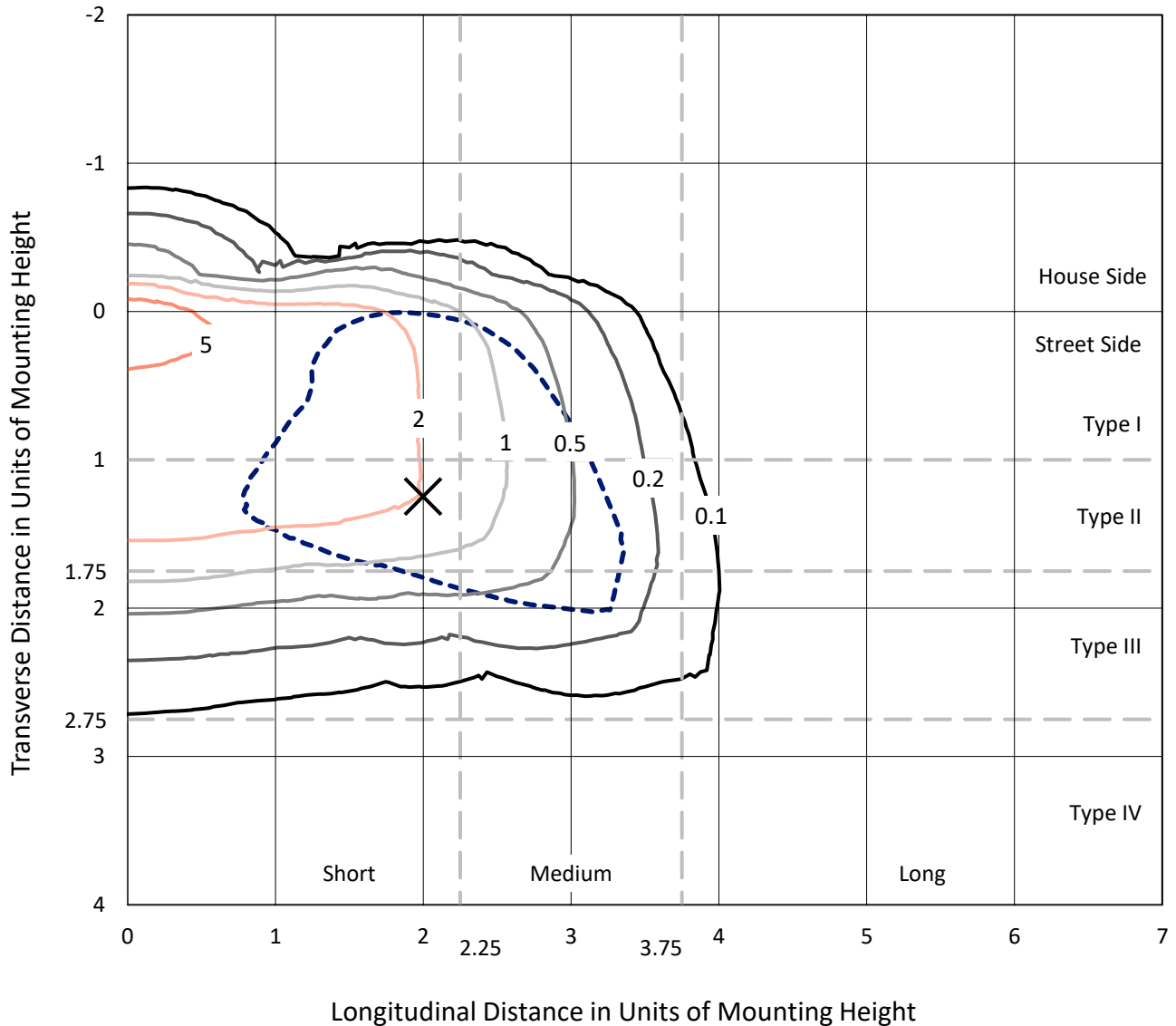
Lumens per Lamp: N/A  
Luminaire Lumens: 19537.9 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 166.1  
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

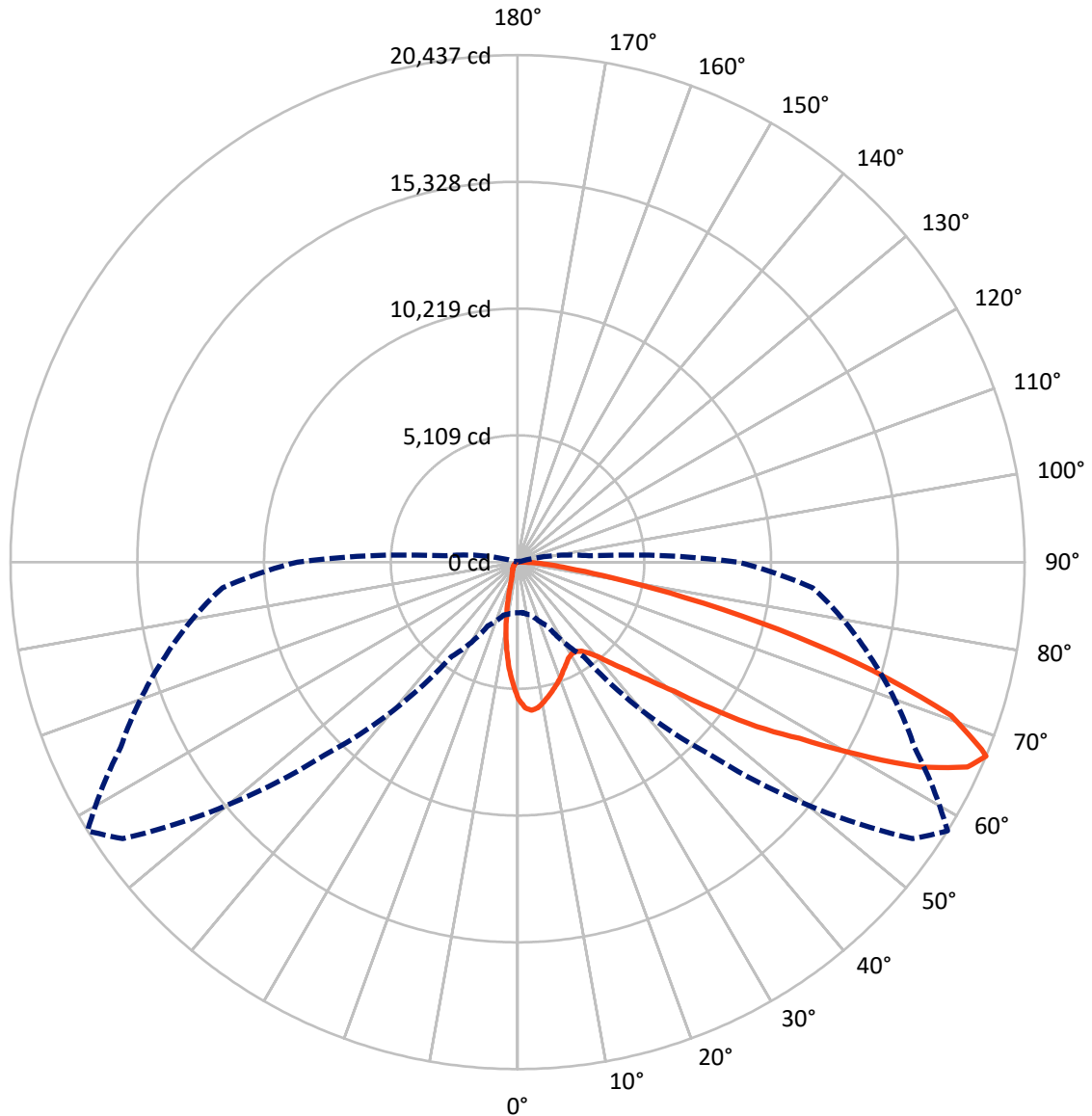
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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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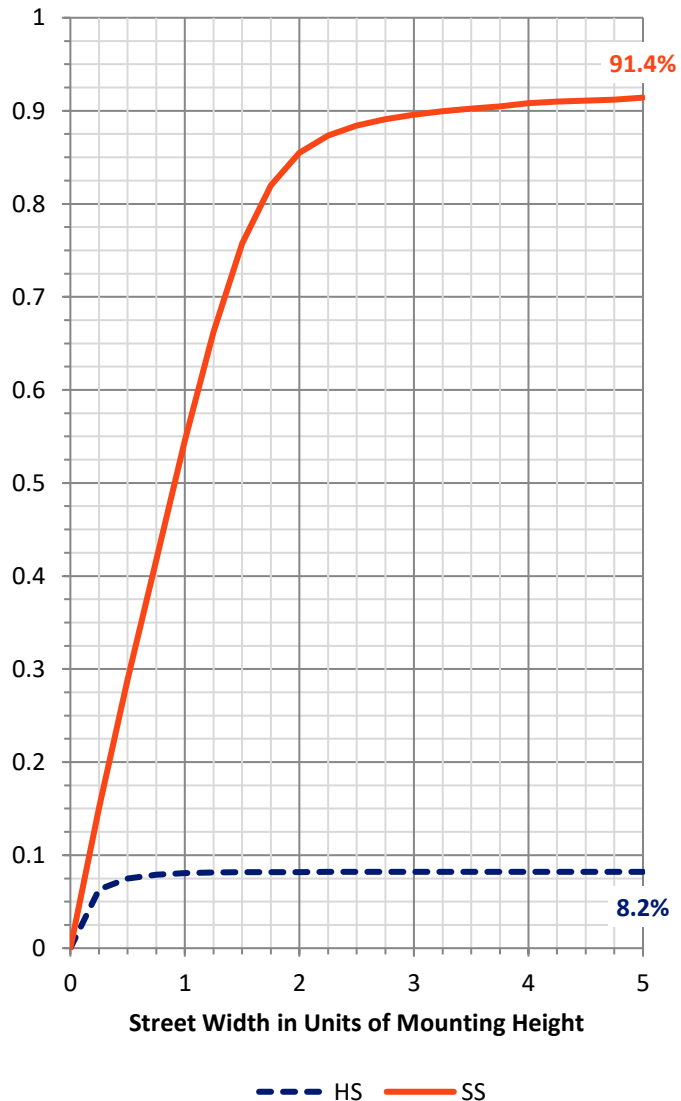
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1614.9	0.0	1614.9
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	17923.0	0.0	17923.0
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	19537.9	0.0	19537.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	439.2	2.2
10°-20°	911.0	4.7
20°-30°	1208.7	6.2
30°-40°	1674.9	8.6
40°-50°	2732.9	14.0
50°-60°	4803.5	24.6
60°-70°	5320.3	27.2
70°-80°	2204.7	11.3
80°-90°	242.7	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°	19537.9	100.0
0°-180°	19537.9	100.0

**Coefficient of Utilization**



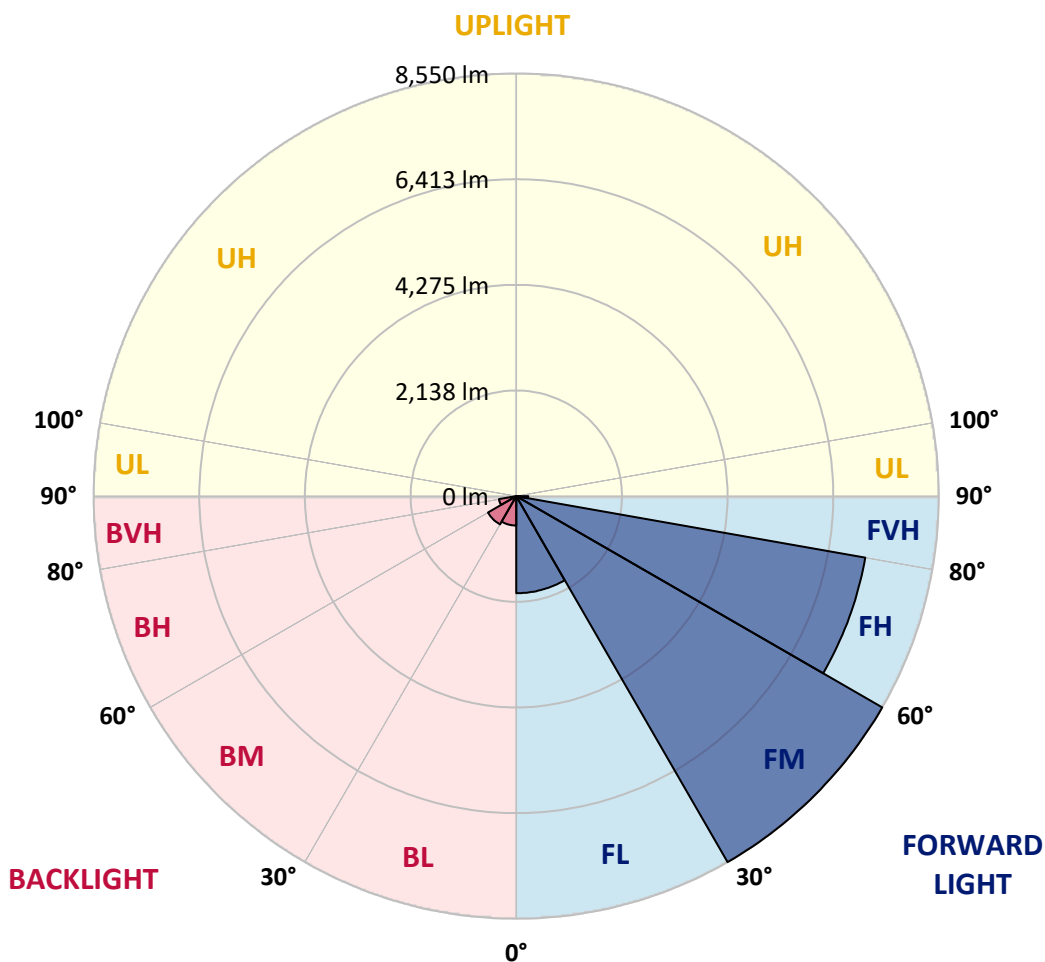
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1964.1	10.1			
FM (30°-60°)	8550.2	43.8			
FH (60°-80°)	7170.0	36.7			G3/7500
FVH (80°-90°)	238.7	1.2			G3/500
BL (0°-30°)	594.8	3.0	B2/1000		
BM (30°-60°)	661.1	3.4	B1/1000		
BH (60°-80°)	355.1	1.8	B1/500		G1/500
BVH (80°-90°)	4.0	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5535.4	5535.4	5535.4	5535.4	5535.4	5535.4	5535.4	5535.4	5535.4	5535.4	5535.4
2.5°	6023.0	6043.8	6061.9	6028.2	6056.7	6015.2	5908.9	5885.5	5867.4	5709.1	5618.4
5°	6020.4	5997.1	6015.2	6030.8	5991.9	6023.0	5997.1	5999.7	5929.6	5787.0	5532.8
7.5°	5618.4	5608.0	5618.4	5693.6	5779.2	5846.6	5885.5	5924.4	5877.8	5665.1	5418.6
10°	5076.2	5128.1	5156.7	5291.5	5423.8	5548.3	5670.2	5742.9	5729.9	5644.3	5294.1
12.5°	4697.5	4682.0	4785.7	4873.9	5006.2	5257.8	5470.5	5538.0	5615.8	5496.5	5130.7
15°	4347.4	4305.9	4368.1	4521.1	4746.8	4946.5	5244.8	5346.0	5444.6	5475.7	5042.5
17.5°	4012.7	4033.5	4098.3	4235.8	4448.5	4728.7	5008.8	5154.1	5390.1	5348.6	4910.2
20°	3851.9	3896.0	3919.4	3989.4	4137.3	4417.4	4835.0	4951.7	5203.3	5346.0	4780.5
22.5°	3859.7	3859.7	3805.2	3846.7	3981.6	4199.5	4599.0	4728.7	5128.1	5211.1	4663.8
25°	3942.7	3890.8	3893.4	3844.1	3901.2	4020.5	4386.3	4544.5	4975.1	5224.1	4601.6
27.5°	4005.0	3994.6	3979.0	3966.1	3893.4	3911.6	4246.2	4375.9	4915.4	5208.5	4505.6
30°	4230.6	4183.9	4168.4	4139.8	4043.9	3955.7	4134.7	4298.1	4868.7	5244.8	4451.1
32.5°	4420.0	4427.8	4440.7	4357.7	4274.7	4056.8	4165.8	4295.5	4835.0	5327.8	4505.6
35°	4658.6	4692.3	4697.5	4671.6	4583.4	4368.1	4295.5	4407.0	4892.1	5475.7	4510.8
37.5°	5021.8	4985.5	5084.0	5094.4	5032.1	4746.8	4596.4	4640.5	5060.7	5711.7	4707.9
40°	5257.8	5301.9	5486.1	5600.2	5493.9	5234.5	5032.1	5024.4	5304.5	6082.7	4951.7
42.5°	5519.8	5618.4	5820.7	6067.1	6054.1	5812.9	5608.0	5574.3	5737.7	6619.6	5338.2
45°	5877.8	5965.9	6248.7	6619.6	6821.9	6617.0	6308.3	6240.9	6264.2	7351.1	5997.1
47.5°	6471.8	6448.4	6855.6	7221.4	7553.4	7395.2	7262.9	7065.8	7047.6	8212.3	6907.5
50°	7143.6	7138.4	7501.5	7916.5	8300.4	8609.1	8388.6	8173.3	8178.5	9382.1	7978.8
52.5°	7781.7	7882.8	8274.5	8686.9	9345.8	9677.8	9890.5	9804.9	9392.5	10427.4	9125.3
55°	8118.9	8207.1	8596.1	9306.9	10347.0	11200.4	11776.3	11703.6	10907.3	11605.1	10256.2
57.5°	7799.8	7859.5	8386.0	9317.2	11047.4	12951.3	13503.8	13413.0	12474.0	12505.1	11623.2
60°	6464.0	6557.4	7340.7	8432.7	10775.0	14300.1	15882.4	15744.9	13900.7	13643.9	12502.5
62.5°	4477.1	4539.3	5182.6	6541.8	9483.3	14769.6	18128.7	18203.9	15405.1	14531.0	12764.5
65°	2900.0	2894.8	3263.1	4183.9	6720.8	13348.2	19456.8	19923.7	16857.7	14665.8	12684.1
67°	2049.2	2041.4	2215.2	2837.7	4653.4	10998.1	19433.4	20437.3	17646.2	14704.8	11939.7
67.5°	1890.9	1883.2	2049.2	2609.5	4199.5	10227.7	19142.9	20172.7	17923.8	14650.3	11612.8
70°	1468.1	1447.4	1509.6	1797.6	2446.0	6614.4	16383.0	18530.7	17347.9	13291.1	9273.2
72.5°	1060.9	1084.2	1182.8	1475.9	1919.5	3558.8	12487.0	14984.9	14489.5	10017.6	5893.3
75°	739.3	760.0	918.2	1203.6	1761.3	2158.1	8443.1	10868.4	10092.8	5530.2	2510.9
77.5°	386.5	412.4	586.2	962.3	1600.4	1670.5	5045.1	6892.0	5348.6	1968.8	692.6
80°	179.0	191.9	293.1	682.2	1338.4	1468.1	2941.5	3833.8	2140.0	441.0	238.6
82.5°	77.8	85.6	134.9	391.7	949.4	1284.0	1820.9	2010.3	775.6	142.7	147.9
85°	15.6	18.2	51.9	207.5	459.1	778.2	1278.8	1193.2	389.1	70.0	116.7
87.5°	0.0	0.0	13.0	59.7	124.5	230.9	542.1	542.1	119.3	36.3	44.1
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°	5535.4	5535.4	5535.4	5535.4	5535.4	5535.4	5535.4	5535.4	5535.4	5535.4	5535.4
2.5°	5538.0	5444.6	5239.7	5050.3	4915.4	4762.4	4560.1	4469.3	4435.6	4388.9	4318.8
5°	5392.7	5278.6	4928.4	4575.6	4189.1	3896.0	3584.8	3403.2	3265.7	3180.1	3151.6
7.5°	5187.8	4954.3	4482.2	3916.8	3416.2	2980.4	2508.3	2189.2	1984.3	1901.3	1823.5
10°	5024.4	4720.9	4002.4	3299.4	2632.8	1994.7	1463.0	1182.8	970.1	889.7	879.3
12.5°	4811.7	4448.5	3553.6	2669.1	1831.3	1188.0	809.3	702.9	643.3	632.9	625.1
15°	4635.3	4202.1	3128.2	2067.3	1185.4	741.9	630.3	604.4	588.8	583.6	586.2
17.5°	4516.0	3937.5	2692.5	1504.5	780.8	607.0	581.0	565.5	557.7	555.1	547.3
20°	4279.9	3714.4	2261.9	1053.1	609.6	560.3	539.5	526.6	518.8	516.2	513.6
22.5°	4145.0	3431.7	1831.3	734.1	542.1	508.4	492.8	482.5	469.5	461.7	459.1
25°	4010.2	3224.2	1447.4	570.7	492.8	469.5	446.1	433.2	412.4	402.1	399.5
27.5°	3851.9	3019.3	1115.4	495.4	443.6	420.2	396.9	376.1	350.2	339.8	334.6
30°	3761.1	2819.6	840.4	443.6	407.2	376.1	347.6	321.6	293.1	275.0	269.8
32.5°	3714.4	2638.0	630.3	404.6	368.3	334.6	298.3	267.2	241.2	225.7	223.1
35°	3657.4	2461.6	495.4	368.3	332.0	295.7	259.4	228.3	202.3	189.4	184.2
37.5°	3717.0	2357.8	412.4	339.8	303.5	262.0	223.1	191.9	171.2	158.2	155.6
40°	3880.5	2272.2	358.0	313.9	275.0	230.9	194.5	163.4	145.3	134.9	129.7
42.5°	4132.1	2272.2	324.2	287.9	249.0	202.3	166.0	142.7	124.5	114.1	111.5
45°	4588.6	2342.3	295.7	262.0	217.9	173.8	142.7	119.3	101.2	90.8	88.2
47.5°	5229.3	2503.1	272.4	238.6	194.5	153.0	124.5	101.2	83.0	72.6	70.0
50°	6090.5	2868.8	249.0	210.1	173.8	132.3	103.8	80.4	64.8	54.5	51.9
52.5°	7164.3	3387.6	225.7	194.5	147.9	111.5	83.0	64.8	49.3	41.5	38.9
55°	8300.4	4023.1	197.1	173.8	127.1	93.4	67.4	49.3	36.3	31.1	28.5
57.5°	9444.4	4513.4	173.8	150.4	103.8	75.2	54.5	38.9	25.9	20.8	18.2
60°	10051.3	4560.1	150.4	124.5	83.0	59.7	41.5	28.5	18.2	13.0	10.4
62.5°	10144.7	4145.0	129.7	101.2	67.4	46.7	28.5	20.8	10.4	5.2	5.2
65°	9664.8	3455.1	111.5	80.4	51.9	33.7	20.8	13.0	5.2	2.6	0.0
67°	8886.7	2894.8	96.0	67.4	41.5	25.9	15.6	7.8	2.6	0.0	0.0
67.5°	8585.8	2739.1	90.8	62.3	38.9	23.3	13.0	7.8	2.6	0.0	0.0
70°	6663.7	1955.8	67.4	44.1	28.5	18.2	10.4	5.2	0.0	0.0	0.0
72.5°	4082.8	1143.9	51.9	31.1	20.8	13.0	7.8	2.6	0.0	0.0	0.0
75°	1712.0	394.3	44.1	23.3	15.6	7.8	5.2	2.6	0.0	0.0	0.0
77.5°	446.1	147.9	31.1	15.6	10.4	7.8	5.2	2.6	0.0	0.0	0.0
80°	181.6	67.4	20.8	10.4	10.4	7.8	5.2	2.6	0.0	0.0	0.0
82.5°	119.3	31.1	13.0	10.4	7.8	5.2	2.6	0.0	0.0	0.0	0.0
85°	90.8	18.2	7.8	7.8	5.2	2.6	0.0	0.0	0.0	0.0	0.0
87.5°	38.9	10.4	7.8	5.2	5.2	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)