

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: P484974

Luminaire Tested: **IFLD-L-SA8C-830-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484974
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-830-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

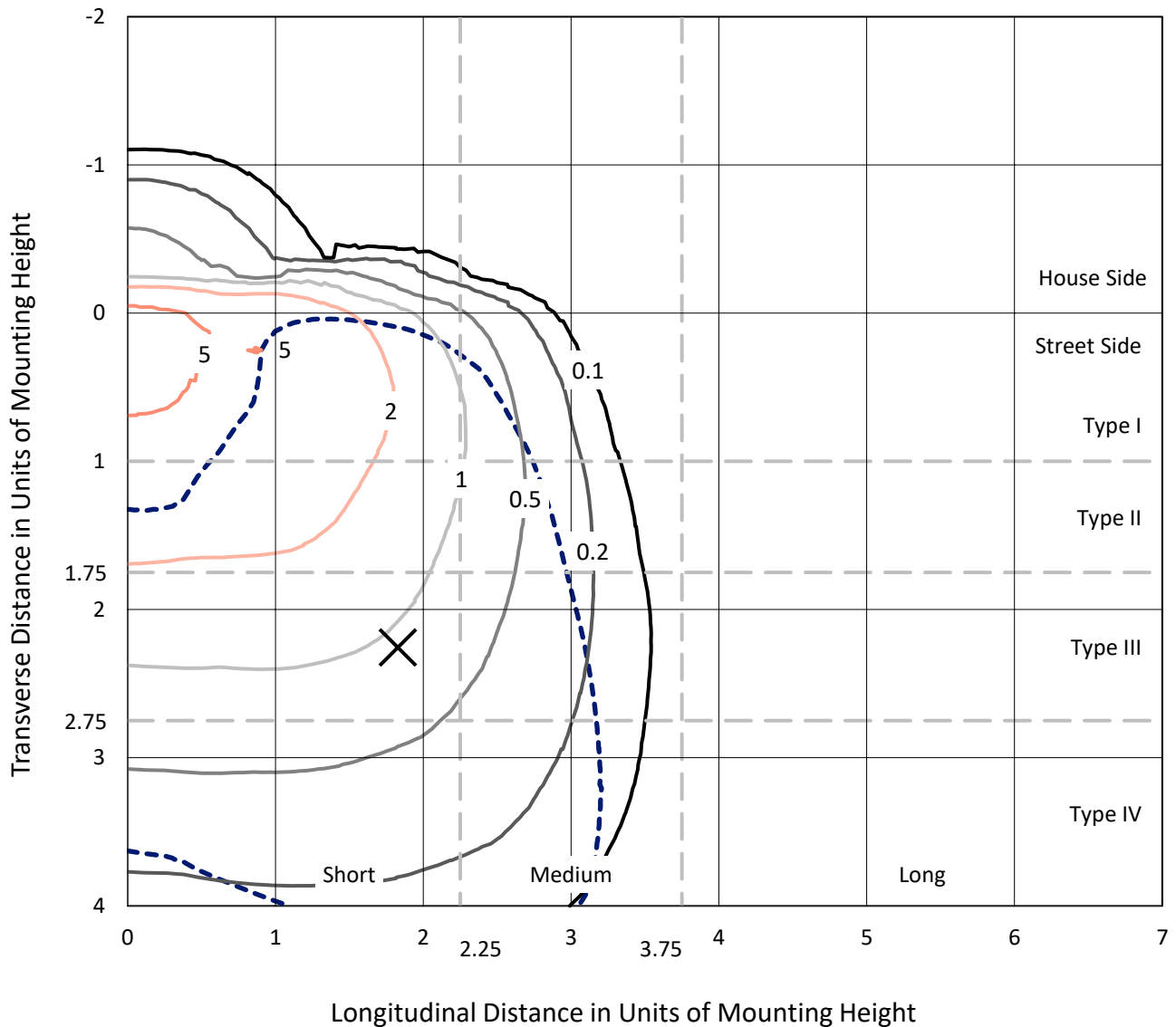
Lumens per Lamp: N/A
Luminaire Lumens: 33257.5 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 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

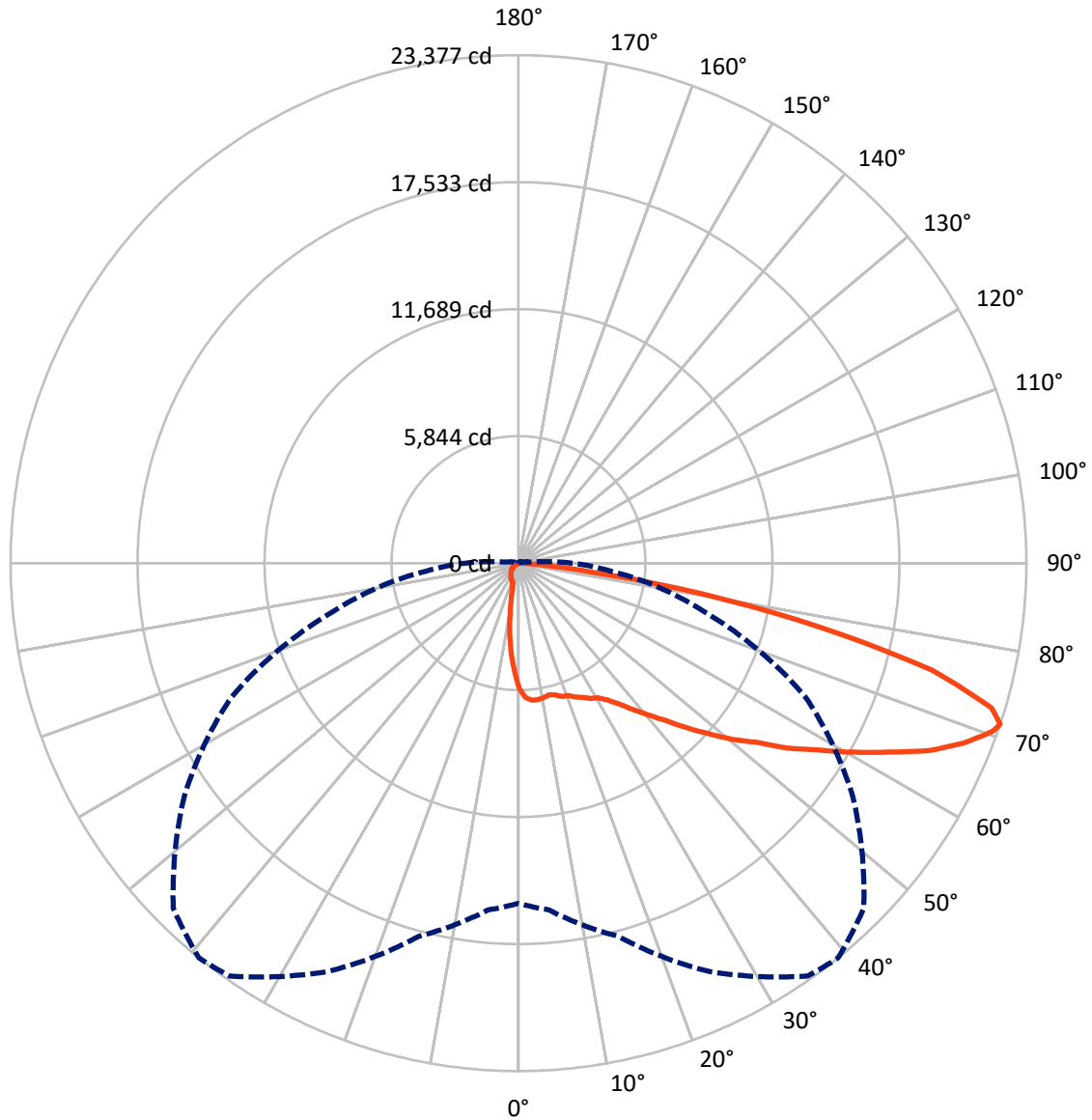
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 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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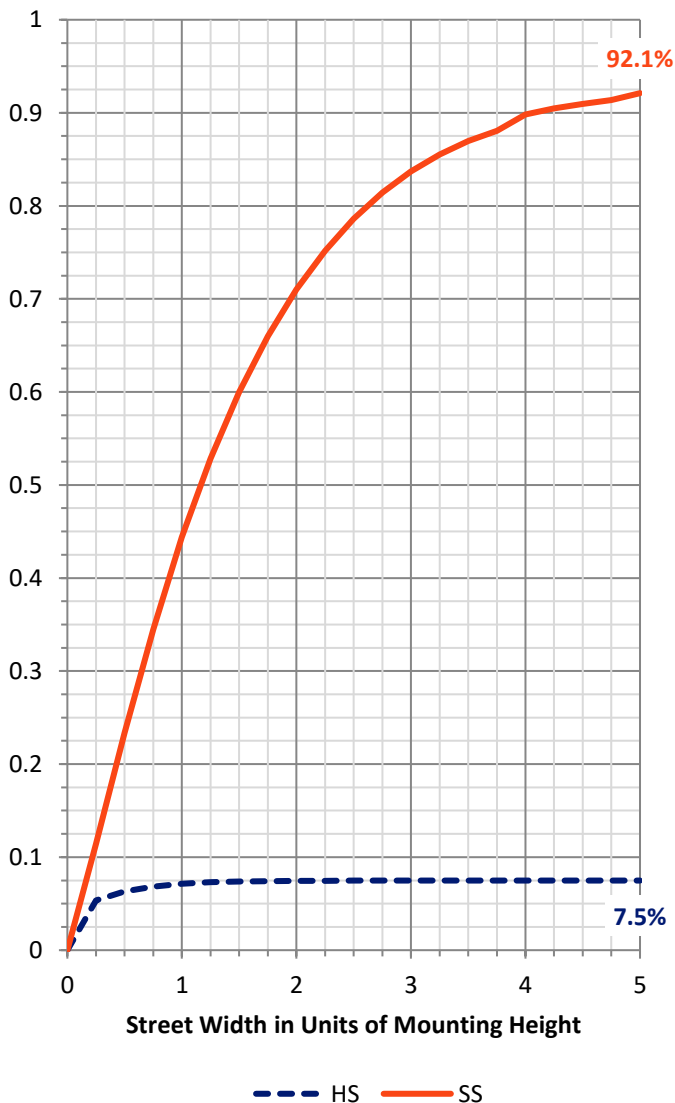
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2503.8	0.0	2503.8
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	30753.7	0.0	30753.7
	% Fixture	92.5	0.0	92.5
Total	Lumens	33257.5	0.0	33257.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.0	1.5
10°-20°	1191.2	3.6
20°-30°	1912.3	5.8
30°-40°	2927.3	8.8
40°-50°	4698.8	14.1
50°-60°	6901.8	20.8
60°-70°	8692.6	26.1
70°-80°	5801.2	17.4
80°-90°	648.3	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°	33257.5	100.0
0°-180°	33257.5	100.0

Coefficient of Utilization



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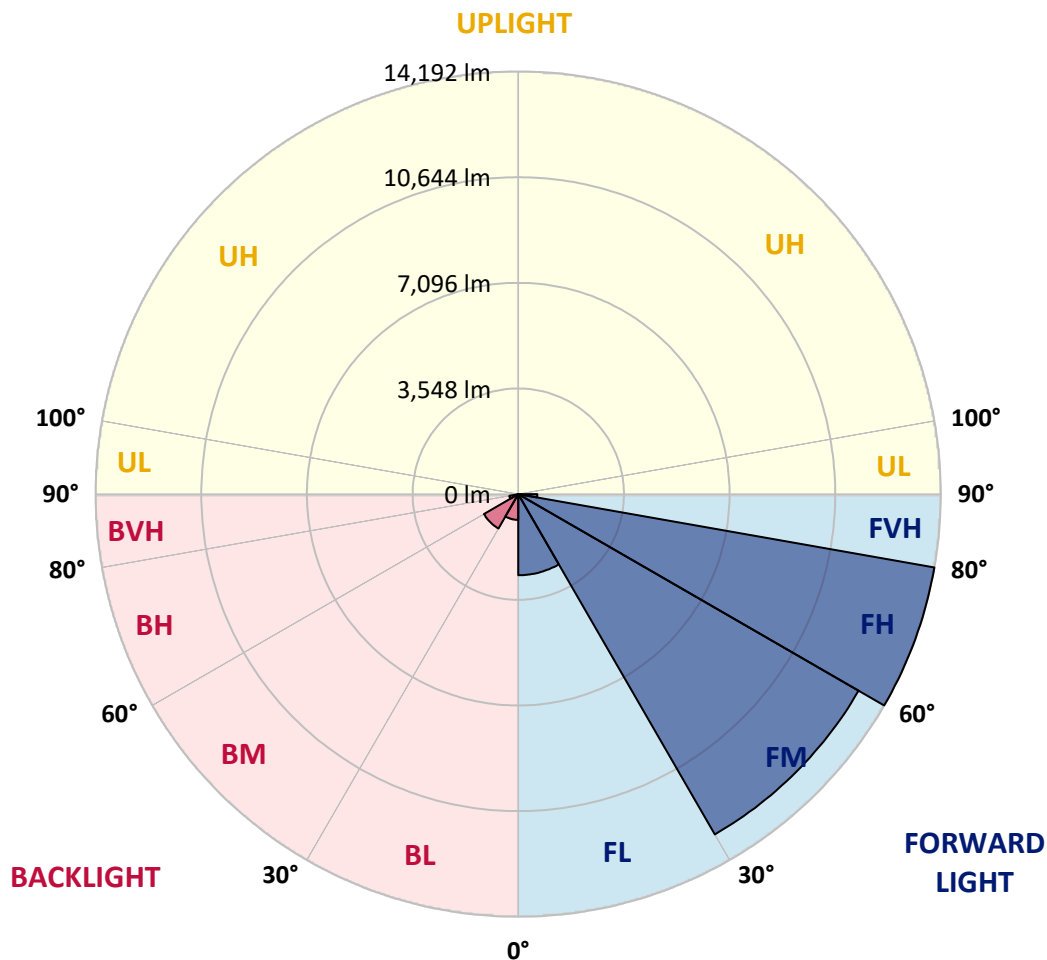
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2723.1	8.2			
FM (30°-60°)	13197.1	39.7			
FH (60°-80°)	14192.4	42.7			G5
FVH (80°-90°)	641.2	1.9			G4/750
BL (0°-30°)	864.4	2.6	B2/1000		
BM (30°-60°)	1330.9	4.0	B2/2500		
BH (60°-80°)	301.3	0.9	B1/500		G1/500
BVH (80°-90°)	7.1	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°	5788.7	5788.7	5788.7	5788.7	5788.7	5788.7	5788.7	5788.7	5788.7	5788.7	5788.7
2.5°	6238.0	6299.1	6238.0	6211.8	6185.6	6190.0	6120.2	6133.3	6050.4	5941.4	5854.1
5°	6434.3	6517.2	6451.7	6421.2	6416.8	6334.0	6299.1	6216.2	6115.8	5945.7	5841.0
7.5°	6416.8	6399.4	6429.9	6403.8	6347.0	6347.0	6307.8	6190.0	6089.7	5897.7	5718.9
10°	6286.0	6338.3	6312.1	6281.6	6294.7	6299.1	6224.9	6142.0	6111.5	5919.5	5627.3
12.5°	6272.9	6185.6	6281.6	6286.0	6229.3	6224.9	6216.2	6194.4	6098.4	5923.9	5649.1
15°	6229.3	6194.4	6290.3	6294.7	6307.8	6294.7	6307.8	6290.3	6194.4	6094.0	5745.1
17.5°	6264.2	6224.9	6360.1	6425.6	6395.0	6456.1	6434.3	6355.8	6272.9	6155.1	5836.7
20°	6272.9	6329.6	6477.9	6504.1	6600.1	6499.7	6495.4	6412.5	6360.1	6233.6	5893.4
22.5°	6434.3	6460.5	6643.7	6700.4	6704.7	6691.7	6582.6	6486.6	6464.8	6307.8	5906.5
25°	6678.6	6770.2	6853.1	6888.0	6901.0	6840.0	6726.6	6604.4	6552.1	6451.7	6041.7
27.5°	7110.4	7053.7	7127.9	7180.2	7031.9	7053.7	6909.8	6805.1	6730.9	6643.7	6198.7
30°	7494.3	7442.0	7446.3	7437.6	7311.1	7193.3	7154.1	6970.8	6879.2	6914.1	6443.0
32.5°	7838.9	7725.5	7821.5	7777.9	7542.3	7507.4	7476.9	7245.7	7263.1	7424.5	6809.4
35°	8157.4	8118.1	8196.6	8118.1	7961.1	7952.3	7921.8	7721.1	7817.1	8048.3	7437.6
37.5°	8449.6	8462.7	8558.7	8519.4	8532.5	8541.2	8523.8	8310.0	8584.9	9104.0	8170.5
40°	8720.1	8702.7	8938.2	9060.4	9086.5	9182.5	9182.5	9130.1	9553.3	10137.8	9186.9
42.5°	9008.0	9051.6	9357.0	9562.0	9810.7	9893.5	10007.0	10033.1	10687.5	11354.9	10225.1
45°	9479.1	9405.0	9793.2	10277.4	10495.5	10787.8	10962.3	11110.6	11900.2	12816.2	11263.3
47.5°	10076.8	9928.4	10268.7	10971.0	11477.0	11717.0	12031.0	12227.3	12999.4	13946.1	12244.8
50°	10739.8	10587.1	10752.9	11721.3	12310.2	12746.4	13147.8	13396.4	14329.9	15211.1	12960.2
52.5°	11490.1	11350.5	11376.7	12502.2	13370.2	13688.7	14216.5	14587.3	15516.5	15974.5	13213.2
55°	12288.4	12253.5	12170.6	13265.5	14299.4	15014.8	15333.2	15778.2	16733.5	16388.9	13488.0
57.5°	13091.1	12982.0	13099.8	14277.6	15791.3	16218.8	16659.4	16925.5	17409.7	16751.0	13383.3
60°	13845.7	13854.4	14020.2	15376.9	17060.7	17667.0	18064.0	17902.6	18103.3	16908.0	13143.4
62.5°	14482.6	14465.2	14883.9	16611.4	18740.1	19150.2	19446.8	18727.1	18426.1	17060.7	12724.6
65°	15054.1	15250.4	15909.1	18081.4	20319.3	20790.4	20611.5	19507.9	18740.1	16611.4	11546.8
67.5°	15485.9	15778.2	16921.1	19464.3	21767.5	22099.1	21850.4	20101.2	18369.4	14849.0	9405.0
70°	15738.9	16035.6	17645.2	20615.9	22923.5	23163.4	22578.9	19643.1	16205.7	10752.9	5867.2
71°	15660.4	16022.5	17784.8	20738.0	23198.3	23377.2	22469.9	18796.9	14574.2	9003.6	4279.3
72.5°	14949.4	15289.6	17204.6	20650.8	22866.8	22757.8	21619.2	16764.1	11472.7	5740.7	2211.7
75°	10984.1	11350.5	14766.2	17863.3	20410.9	19660.6	17496.9	11764.9	5985.0	1758.0	645.6
77.5°	5470.2	5531.3	9165.0	12968.9	14971.2	14225.2	11725.7	6560.8	2237.8	519.1	322.8
80°	2521.4	2538.8	3437.4	6717.8	9051.6	8519.4	6569.5	3236.8	1012.0	274.8	253.0
82.5°	1718.7	1744.9	2072.1	2783.1	3930.4	3315.3	2661.0	2072.1	580.2	165.8	248.6
85°	314.1	287.9	1160.4	1474.4	1518.1	1029.5	920.4	1792.9	218.1	96.0	218.1
87.5°	0.0	4.4	161.4	602.0	540.9	239.9	314.1	436.2	21.8	30.5	39.3
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°	5788.7	5788.7	5788.7	5788.7	5788.7	5788.7	5788.7	5788.7	5788.7	5788.7	5788.7
2.5°	5780.0	5732.0	5570.6	5391.7	5230.3	5103.8	4942.4	4868.2	4750.5	4685.0	4680.7
5°	5697.1	5566.2	5287.0	4986.0	4650.1	4371.0	4061.2	3886.7	3686.1	3625.0	3611.9
7.5°	5557.5	5369.9	4959.9	4536.7	4022.0	3529.0	3149.5	2743.8	2495.2	2390.5	2351.2
10°	5470.2	5243.4	4685.0	4052.5	3332.7	2639.1	2107.0	1675.1	1448.3	1339.2	1313.0
12.5°	5470.2	5226.0	4462.6	3590.1	2634.8	1806.0	1304.3	1055.7	981.5	955.3	955.3
15°	5457.2	5191.1	4248.8	3114.6	1949.9	1212.7	972.8	920.4	911.7	907.3	903.0
17.5°	5522.6	5130.0	4030.7	2604.3	1378.5	955.3	894.3	885.5	876.8	876.8	868.1
20°	5570.6	5095.1	3769.0	2063.3	1029.5	885.5	859.4	846.3	841.9	837.5	846.3
22.5°	5531.3	5042.7	3446.2	1544.2	898.6	841.9	824.5	811.4	802.7	802.7	807.0
25°	5605.5	4994.8	3123.4	1164.7	841.9	802.7	785.2	776.5	772.1	767.8	759.0
27.5°	5705.8	5016.6	2739.5	937.9	793.9	763.4	745.9	737.2	732.9	724.1	732.9
30°	5827.9	5012.2	2316.3	820.1	750.3	719.8	702.3	698.0	689.2	684.9	689.2
32.5°	6037.3	5125.6	1880.1	759.0	702.3	676.1	658.7	654.3	650.0	645.6	641.2
35°	6486.6	5265.2	1470.1	711.0	658.7	628.2	615.1	606.4	602.0	597.6	593.3
37.5°	7040.6	5574.9	1121.1	667.4	615.1	584.5	571.5	567.1	549.6	545.3	540.9
40°	7734.2	5906.5	863.7	619.4	575.8	545.3	532.2	519.1	497.3	488.6	479.8
42.5°	8598.0	6229.3	711.0	575.8	532.2	510.4	488.6	466.8	449.3	431.9	423.1
45°	9461.7	6604.4	623.8	536.6	497.3	471.1	453.7	423.1	392.6	366.4	362.1
47.5°	10181.4	6739.6	571.5	492.9	462.4	440.6	414.4	375.2	331.5	305.4	301.0
50°	10718.0	6661.1	519.1	449.3	423.1	401.3	366.4	318.4	274.8	248.6	239.9
52.5°	10822.7	6316.5	471.1	414.4	383.9	357.7	318.4	266.1	218.1	191.9	187.6
55°	10748.5	5745.1	431.9	383.9	349.0	309.7	266.1	213.7	170.1	144.0	139.6
57.5°	10595.9	5068.9	388.2	344.6	305.4	266.1	218.1	174.5	126.5	100.3	100.3
60°	10076.8	4148.5	344.6	301.0	261.7	226.8	178.9	126.5	87.2	65.4	61.1
62.5°	9352.6	3188.8	301.0	257.4	226.8	187.6	139.6	91.6	52.3	34.9	34.9
65°	8030.9	2233.5	253.0	213.7	187.6	152.7	104.7	56.7	30.5	13.1	13.1
67.5°	6102.8	1382.8	209.4	178.9	161.4	122.1	74.2	34.9	13.1	4.4	0.0
70°	3502.9	719.8	165.8	144.0	126.5	91.6	52.3	17.4	8.7	0.0	0.0
71°	2447.2	532.2	148.3	126.5	113.4	82.9	43.6	13.1	4.4	0.0	0.0
72.5°	1225.8	353.3	126.5	104.7	91.6	65.4	34.9	13.1	4.4	0.0	0.0
75°	436.2	226.8	87.2	69.8	65.4	48.0	21.8	8.7	4.4	0.0	0.0
77.5°	301.0	183.2	61.1	43.6	43.6	30.5	13.1	4.4	4.4	0.0	0.0
80°	274.8	100.3	39.3	26.2	21.8	17.4	8.7	4.4	0.0	0.0	0.0
82.5°	274.8	74.2	21.8	17.4	13.1	8.7	4.4	0.0	0.0	0.0	0.0
85°	191.9	39.3	13.1	13.1	8.7	4.4	0.0	0.0	0.0	0.0	0.0
87.5°	30.5	13.1	8.7	4.4	4.4	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)