

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: P484178

Luminaire Tested: **IFLD-S-SA6B-830-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484178
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-830-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2
distribution lens with House Side Shield
Light Source: (96) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

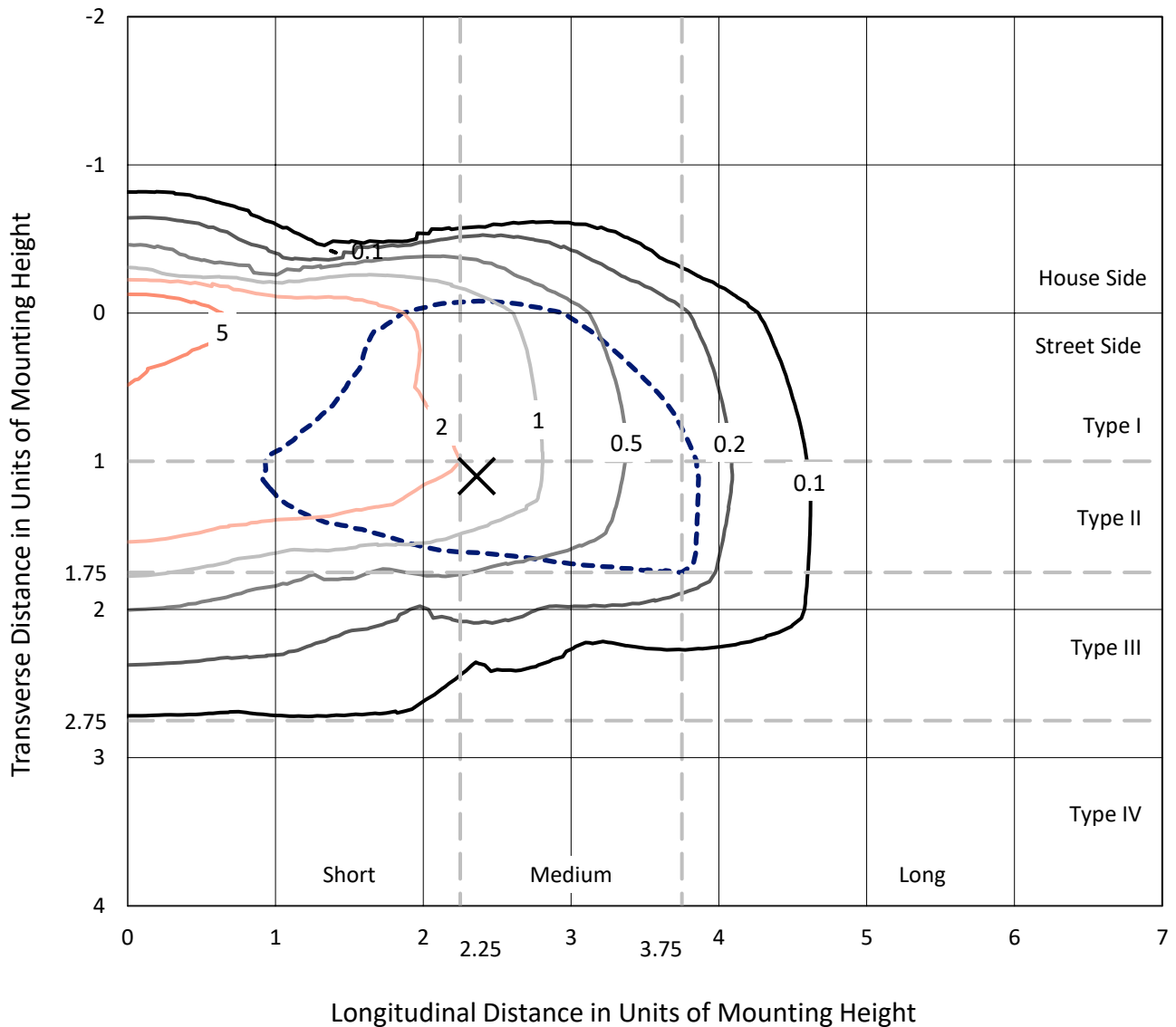
Lumens per Lamp: N/A
Luminaire Lumens: 21830.2 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

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

REPORT NUMBER: P484178
 CATALOG NUMBER: IFLD-S-SA6B-830-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

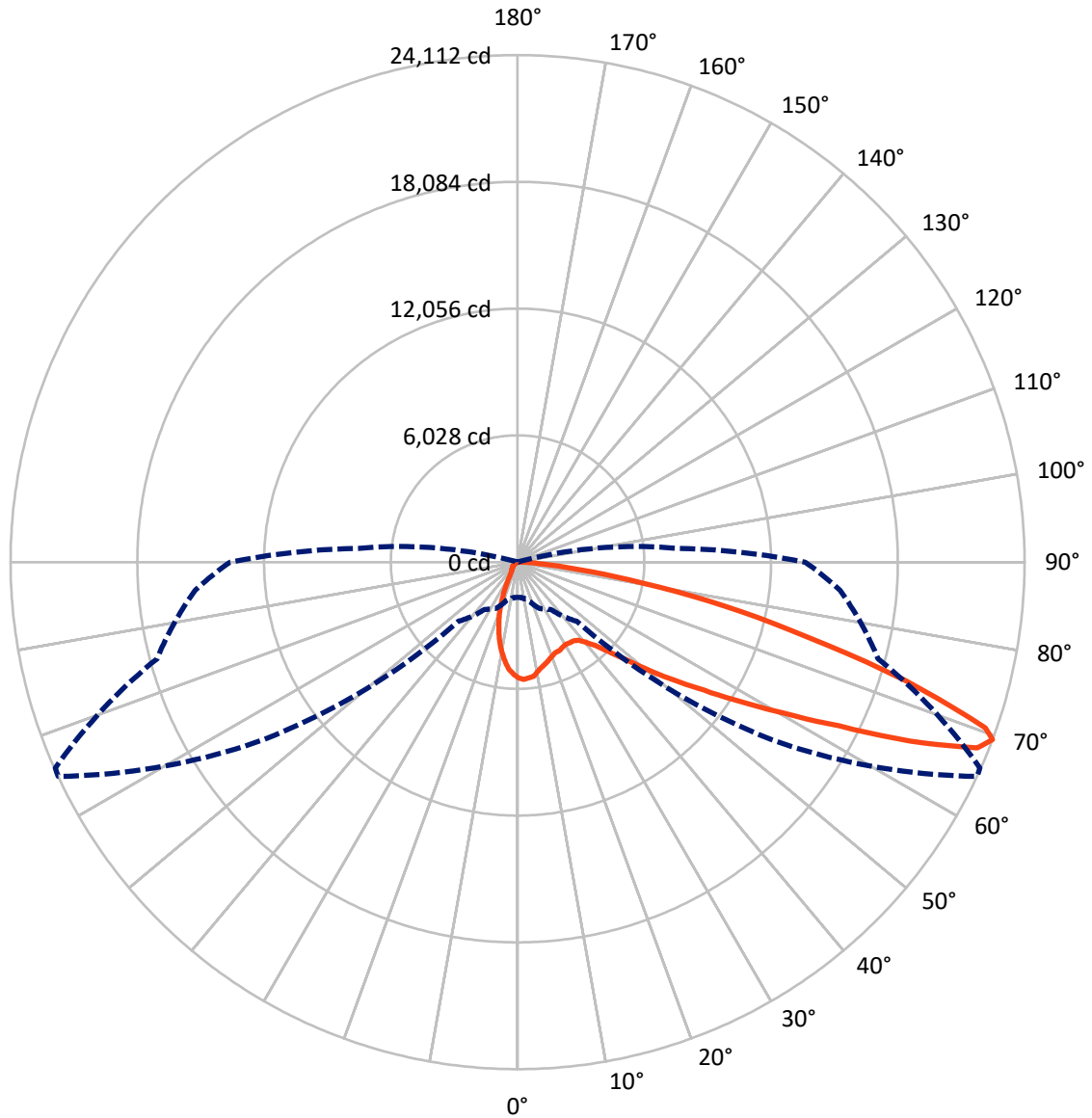
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Medium - N/A

REPORT NUMBER: P484178
CATALOG NUMBER: IFLD-S-SA6B-830-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P484178
 CATALOG NUMBER: IFLD-S-SA6B-830-U-SL2-HSS

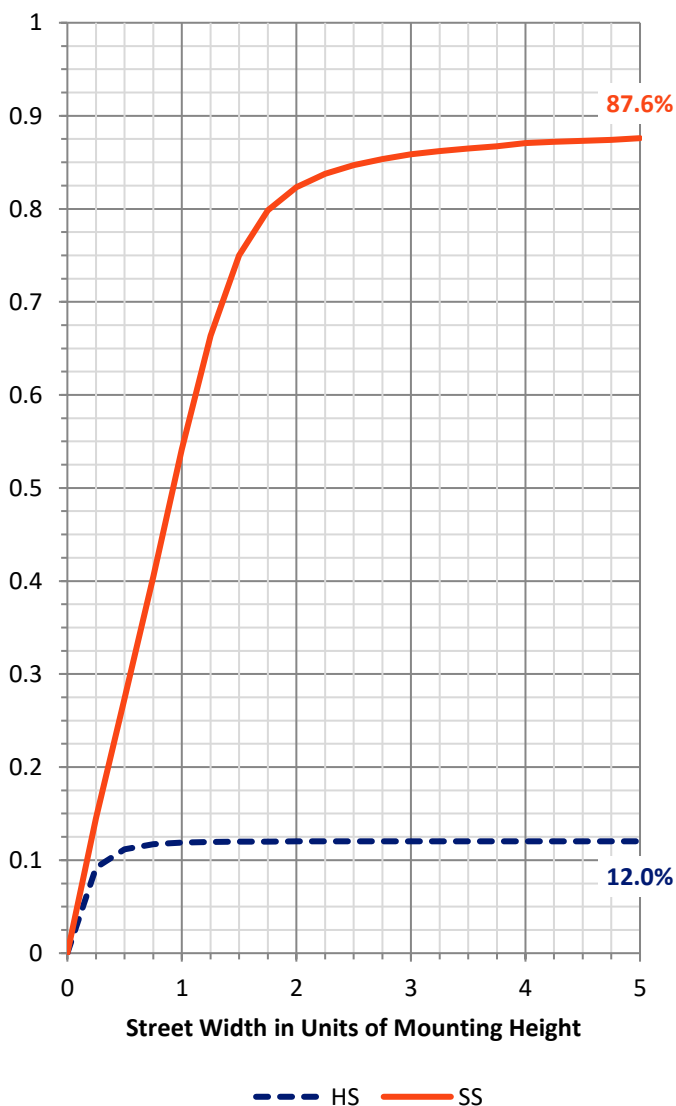
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2648.1	0.0	2648.1
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	19182.1	0.0	19182.1
	% Fixture	87.9	0.0	87.9
Total	Lumens	21830.2	0.0	21830.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.4	2.1
10°-20°	985.5	4.5
20°-30°	1372.0	6.3
30°-40°	1944.2	8.9
40°-50°	3064.1	14.0
50°-60°	4971.9	22.8
60°-70°	5552.6	25.4
70°-80°	3126.8	14.3
80°-90°	362.8	1.7
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°	21830.2	100.0
0°-180°	21830.2	100.0



REPORT NUMBER: P484178

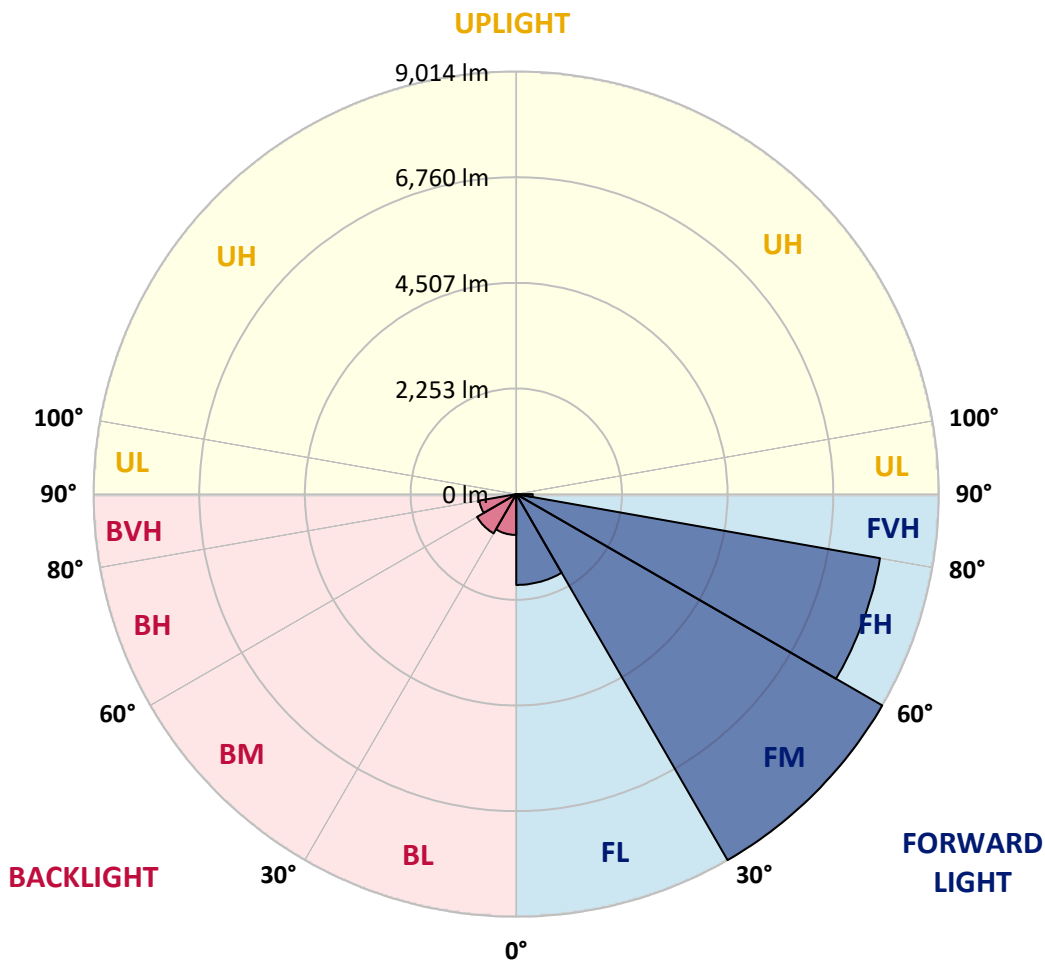
CATALOG NUMBER: IFLD-S-SA6B-830-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1937.2	8.9			
FM (30°-60°)	9013.9	41.3			
FH (60°-80°)	7878.1	36.1			G4/12000
FVH (80°-90°)	352.8	1.6			G3/500
BL (0°-30°)	870.6	4.0	B2/1000		
BM (30°-60°)	966.3	4.4	B1/1000		
BH (60°-80°)	801.2	3.7	B2/1000		G2/1000
BVH (80°-90°)	10.0	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium





REPORT NUMBER: P484178

CATALOG NUMBER: IFLD-S-SA6B-830-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5503.9	5503.9	5503.9	5503.9	5503.9	5503.9	5503.9	5503.9	5503.9	5503.9	5503.9
2.5°	5300.7	5341.9	5353.7	5394.9	5415.6	5503.9	5554.0	5583.4	5568.7	5601.1	5604.0
5°	4923.8	4900.2	4962.1	5006.2	5100.5	5253.6	5409.7	5530.4	5586.4	5639.4	5630.5
7.5°	4520.3	4508.5	4570.4	4670.5	4755.9	4941.4	5191.8	5489.2	5477.4	5607.0	5645.3
10°	4243.5	4255.3	4275.9	4376.0	4502.7	4691.1	5003.3	5280.1	5341.9	5615.8	5692.4
12.5°	3990.3	4010.9	4049.2	4152.2	4299.5	4493.8	4797.1	5121.1	5215.3	5565.7	5718.9
15°	3907.8	3860.7	3937.3	4013.8	4166.9	4340.7	4596.9	5000.3	5041.6	5506.9	5763.1
17.5°	3840.1	3810.6	3846.0	3907.8	4069.8	4211.1	4452.6	4870.8	4947.3	5483.3	5757.2
20°	3860.7	3834.2	3848.9	3896.0	3969.6	4102.2	4326.0	4747.1	4829.5	5374.3	5748.3
22.5°	3919.6	3940.2	3913.7	3925.5	3949.0	4016.8	4258.2	4658.7	4729.4	5353.7	5798.4
25°	4184.6	4149.3	4113.9	4099.2	3960.8	3990.3	4237.6	4652.8	4702.9	5280.1	5757.2
27.5°	4461.4	4432.0	4417.3	4331.9	4143.4	4055.0	4240.6	4570.4	4638.1	5250.6	5707.1
30°	4797.1	4835.4	4776.5	4673.5	4411.4	4193.5	4273.0	4529.2	4623.4	5138.7	5674.7
32.5°	5150.5	5171.1	5200.6	5124.0	4785.4	4402.5	4370.1	4567.4	4573.3	5138.7	5601.1
35°	5551.0	5521.6	5598.1	5604.0	5306.6	4773.6	4555.7	4594.0	4655.8	5115.2	5574.6
37.5°	5895.6	5945.6	6034.0	6175.3	5869.1	5297.8	4844.3	4717.6	4744.1	5224.1	5595.2
40°	6272.5	6322.6	6522.8	6664.2	6490.4	5886.7	5283.0	5006.2	5026.8	5386.1	5701.2
42.5°	6687.7	6784.9	7023.4	7270.8	7223.7	6634.7	5848.5	5430.3	5421.5	5789.6	5919.1
45°	7250.2	7379.8	7638.9	7924.6	7965.8	7491.7	6602.3	6063.4	6092.9	6316.7	6369.7
47.5°	8033.5	8027.6	8280.9	8598.9	8837.5	8381.0	7503.5	6914.5	6911.5	7150.1	7038.2
50°	8790.3	8793.3	8861.0	9229.1	9847.5	9614.9	8619.5	8045.3	8012.9	8130.7	7951.1
52.5°	9140.8	9099.6	9049.5	9494.2	10625.0	11169.8	10033.1	9326.3	9299.8	9229.1	9182.0
55°	8772.7	8787.4	8784.5	9246.8	11034.3	12810.1	11847.1	10736.9	10692.7	10471.9	10536.6
57.5°	7591.8	7544.7	7647.7	8369.2	10566.1	13929.1	14441.5	12515.6	12400.7	11667.5	11520.2
60°	5651.1	5665.9	5751.3	6602.3	9402.9	14164.7	16924.0	14603.5	14108.7	12509.7	12306.5
62.5°	3946.1	3916.6	3949.0	4426.1	6723.1	13222.3	18602.6	17141.9	16664.8	13466.8	13349.0
65°	2824.1	2785.8	2915.4	3206.9	4037.4	10109.6	18841.1	20522.6	20095.6	14995.1	14712.4
67.5°	2031.9	2026.0	2176.2	2706.3	2868.3	5821.9	17074.2	23585.2	23326.1	16809.1	15542.9
69°	1681.5	1684.4	1828.7	2423.6	2738.7	3975.5	14691.8	24112.3	24065.2	17745.6	15386.8
70°	1466.5	1478.3	1646.2	2255.7	2685.7	3268.8	12665.8	23594.1	23546.9	17928.2	14871.4
72.5°	904.1	912.9	1133.8	1808.1	2553.2	2668.0	7574.1	19303.4	19465.4	17091.9	12813.0
75°	432.9	435.8	594.9	1307.5	2461.9	2529.6	4058.0	14244.2	14585.8	13799.5	10012.5
77.5°	229.7	229.7	285.6	695.0	1993.7	2379.4	2408.9	10047.8	10330.5	8725.6	5692.4
80°	114.8	117.8	173.7	362.2	1236.8	2332.3	1881.8	5992.7	6145.9	3560.3	1772.8
82.5°	44.2	47.1	82.5	217.9	642.0	1970.1	1652.1	2947.8	2909.5	833.4	432.9
85°	5.9	5.9	29.4	129.6	273.9	868.7	1363.5	1230.9	1189.7	182.6	209.1
87.5°	0.0	0.0	5.9	38.3	82.5	253.3	527.1	338.7	376.9	50.1	103.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P484178

CATALOG NUMBER: IFLD-S-SA6B-830-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5503.9	5503.9	5503.9	5503.9	5503.9	5503.9	5503.9	5503.9	5503.9	5503.9	5503.9
2.5°	5589.3	5527.5	5433.2	5341.9	5244.8	5127.0	4997.4	4950.3	4867.8	4861.9	4909.0
5°	5583.4	5483.3	5318.4	5124.0	4847.2	4638.1	4411.4	4246.5	4119.8	4037.4	4058.0
7.5°	5612.9	5492.1	5206.5	4788.3	4432.0	4016.8	3666.3	3424.8	3204.0	3095.0	3083.2
10°	5565.7	5403.8	4985.6	4399.6	3875.4	3295.3	2782.9	2458.9	2129.1	2008.4	2014.3
12.5°	5592.3	5365.5	4747.1	3999.1	3277.6	2523.7	1911.2	1469.5	1160.3	1060.1	1048.4
15°	5609.9	5283.0	4517.4	3519.1	2615.0	1719.8	1107.3	833.4	736.2	718.5	715.6
17.5°	5542.2	5182.9	4193.5	3045.0	1937.7	1045.4	736.2	680.3	662.6	650.8	644.9
20°	5539.2	5124.0	3913.7	2559.1	1292.8	712.7	636.1	615.5	589.0	580.1	580.1
22.5°	5489.2	5000.3	3578.0	2026.0	824.6	612.5	571.3	538.9	509.5	497.7	494.7
25°	5474.5	4856.0	3262.9	1522.5	627.3	547.7	506.5	459.4	424.1	406.4	397.6
27.5°	5433.2	4732.4	2944.8	1071.9	547.7	488.8	435.8	385.8	344.5	318.0	315.1
30°	5286.0	4602.8	2591.5	742.1	497.7	432.9	374.0	315.1	273.9	256.2	250.3
32.5°	5224.1	4482.0	2205.7	571.3	453.5	382.8	315.1	262.1	229.7	212.0	209.1
35°	5150.5	4305.4	1831.7	497.7	412.3	332.8	265.0	220.9	194.4	179.6	179.6
37.5°	5159.4	4164.0	1481.3	450.6	368.1	285.6	226.8	188.5	164.9	150.2	150.2
40°	5132.9	4052.1	1151.4	409.3	326.9	244.4	191.4	159.0	138.4	123.7	120.7
42.5°	5253.6	4022.7	868.7	374.0	285.6	209.1	164.9	135.5	114.8	97.2	97.2
45°	5456.8	4069.8	677.3	341.6	244.4	179.6	141.4	111.9	91.3	79.5	76.6
47.5°	5998.6	4255.3	530.1	315.1	209.1	156.1	117.8	91.3	73.6	61.8	58.9
50°	6784.9	4670.5	450.6	276.8	176.7	132.5	97.2	70.7	58.9	47.1	44.2
52.5°	7904.0	5368.4	409.3	244.4	147.2	109.0	76.6	56.0	44.2	35.3	32.4
55°	9123.1	6240.1	371.0	206.1	123.7	88.3	61.8	44.2	32.4	23.6	20.6
57.5°	10074.3	6994.0	338.7	170.8	100.1	70.7	47.1	32.4	23.6	14.7	11.8
60°	11113.8	7524.1	297.4	135.5	82.5	53.0	35.3	23.6	17.7	8.8	8.8
62.5°	12185.7	8145.4	244.4	106.0	64.8	41.2	26.5	17.7	11.8	2.9	2.9
65°	13675.8	8631.3	188.5	82.5	50.1	29.4	20.6	14.7	5.9	0.0	0.0
67.5°	14096.9	8392.8	138.4	64.8	35.3	20.6	14.7	8.8	2.9	0.0	0.0
69°	13675.8	7559.4	120.7	56.0	29.4	17.7	11.8	5.9	2.9	0.0	0.0
70°	12907.2	6911.5	106.0	47.1	26.5	17.7	8.8	5.9	2.9	0.0	0.0
72.5°	10795.8	5300.7	82.5	35.3	20.6	14.7	8.8	5.9	0.0	0.0	0.0
75°	7918.7	3274.7	61.8	26.5	17.7	11.8	8.8	5.9	0.0	0.0	0.0
77.5°	4243.5	1195.6	44.2	17.7	11.8	8.8	8.8	5.9	0.0	0.0	0.0
80°	1163.2	353.4	32.4	11.8	8.8	5.9	5.9	2.9	0.0	0.0	0.0
82.5°	318.0	91.3	20.6	11.8	8.8	5.9	2.9	0.0	0.0	0.0	0.0
85°	170.8	35.3	11.8	8.8	5.9	2.9	0.0	0.0	0.0	0.0	0.0
87.5°	88.3	11.8	8.8	5.9	5.9	2.9	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)