

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: P484155

Luminaire Tested: **IFLD-L-SA8C-827-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484155  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-827-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield  
Light Source: (128) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

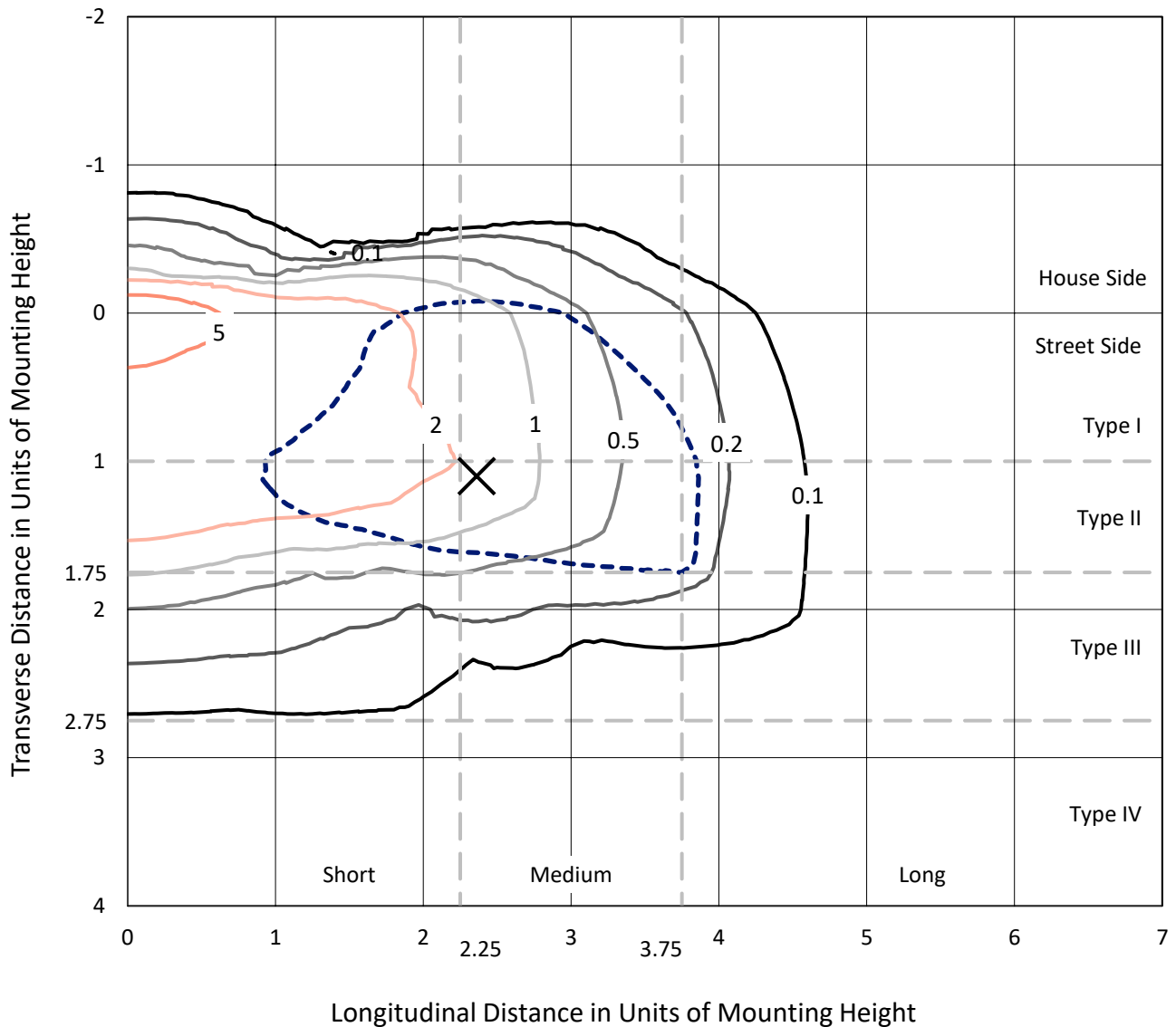
Lumens per Lamp: N/A  
Luminaire Lumens: 30653 lumens  
Efficiency: N/A  
Efficacy: 72.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

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

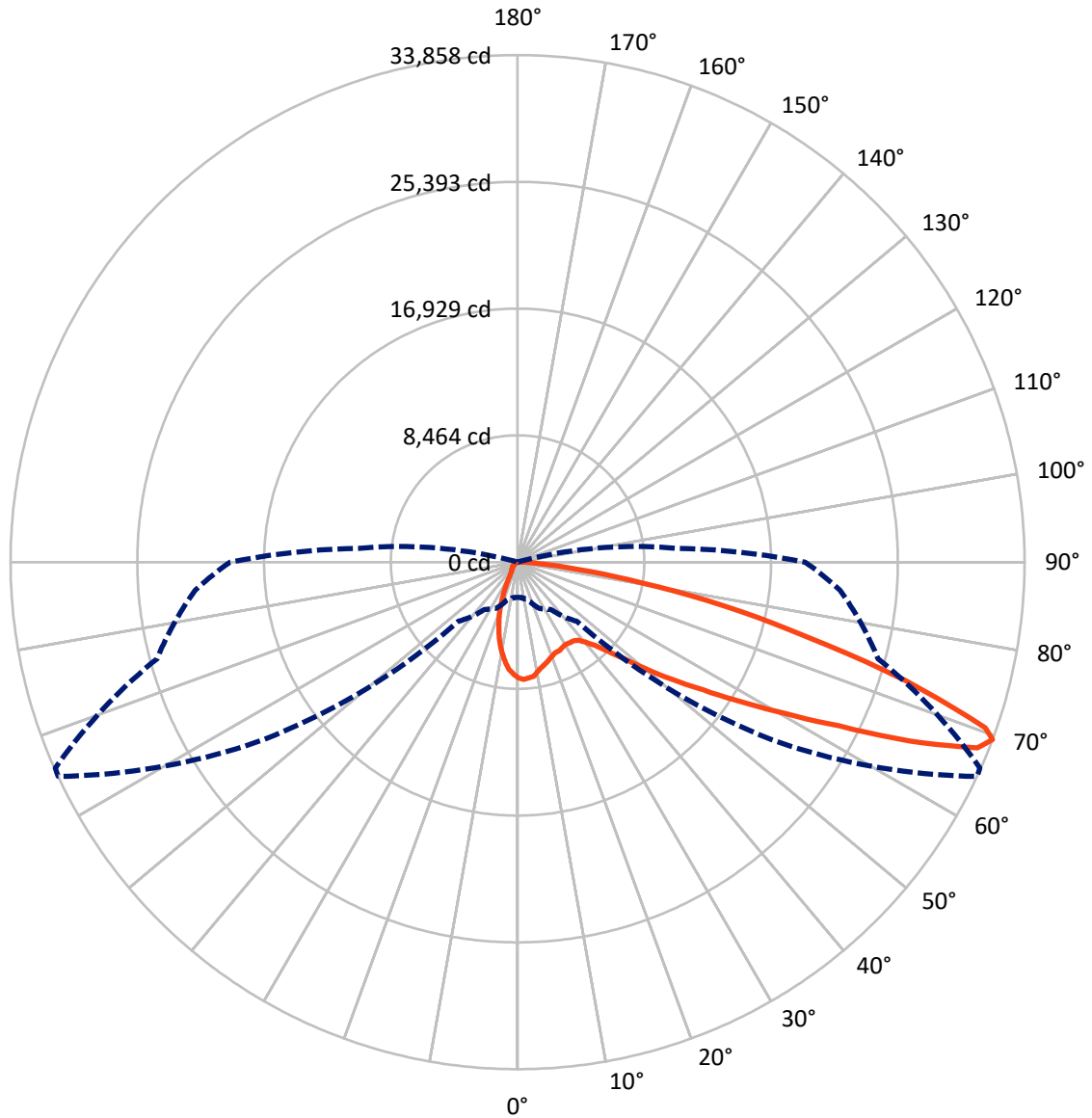
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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

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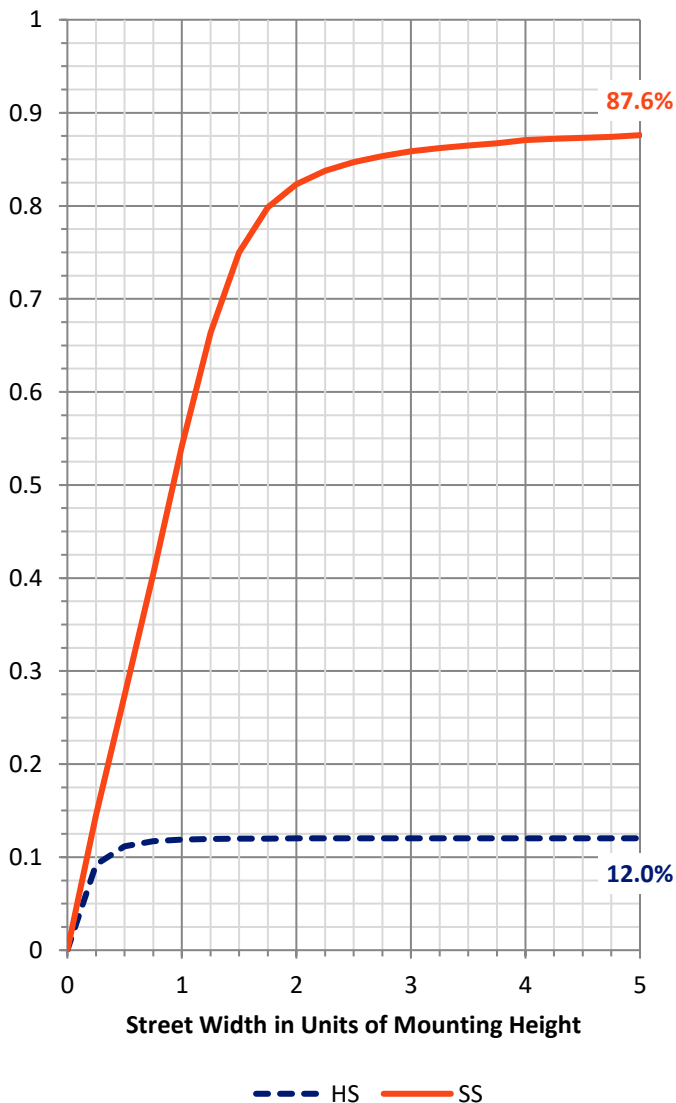
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3718.4	0.0	3718.4
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	26934.6	0.0	26934.6
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	30653.0	0.0	30653.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	632.4	2.1
10°-20°	1383.7	4.5
20°-30°	1926.5	6.3
30°-40°	2730.0	8.9
40°-50°	4302.4	14.0
50°-60°	6981.3	22.8
60°-70°	7796.7	25.4
70°-80°	4390.4	14.3
80°-90°	509.5	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°	30653.0	100.0
0°-180°	30653.0	100.0

**Coefficient of Utilization**



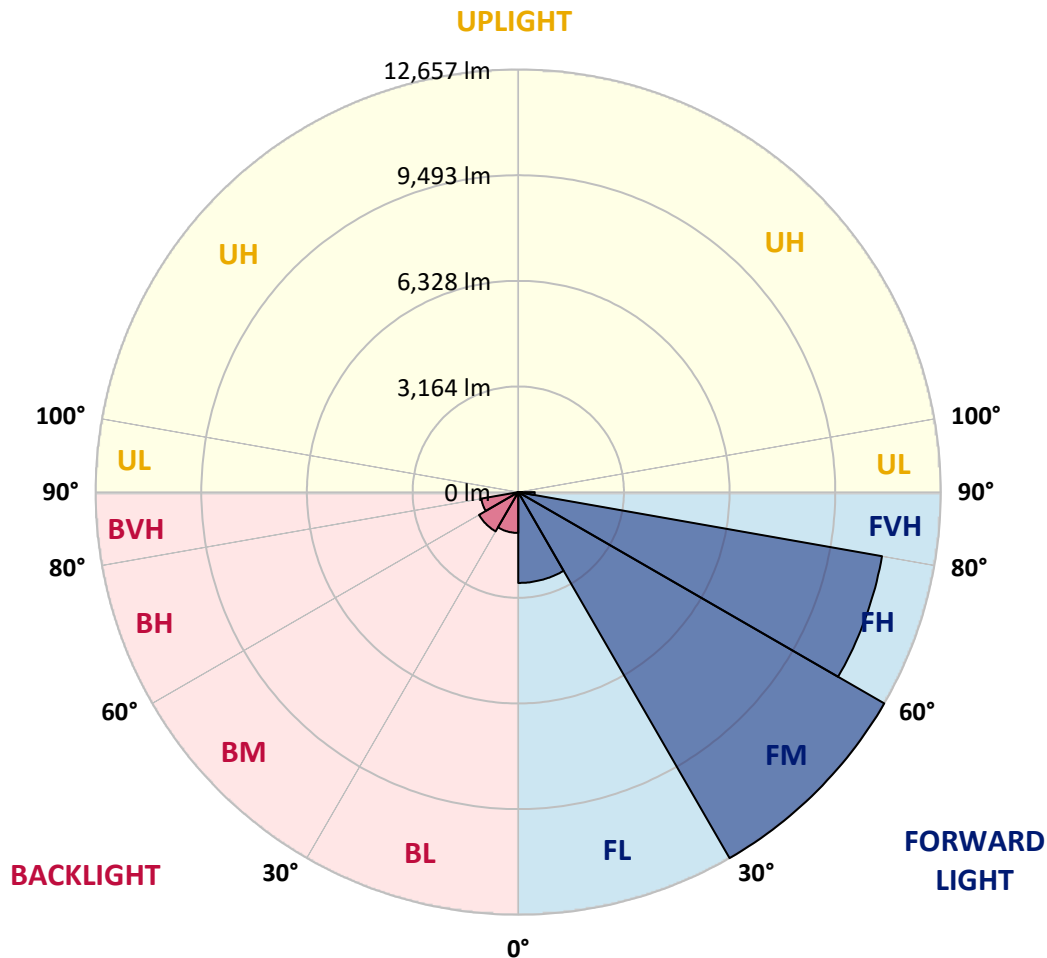
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2720.2	8.9			
FM (30°-60°)	12656.9	41.3			
FH (60°-80°)	11062.1	36.1			G4/12000
FVH (80°-90°)	495.4	1.6			G3/500
BL (0°-30°)	1222.5	4.0	B3/2500		
BM (30°-60°)	1356.8	4.4	B2/2500		
BH (60°-80°)	1125.0	3.7	B3/2500		G3/2500
BVH (80°-90°)	14.1	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7728.3	7728.3	7728.3	7728.3	7728.3	7728.3	7728.3	7728.3	7728.3	7728.3	7728.3
2.5°	7443.0	7500.9	7517.5	7575.3	7604.3	7728.3	7798.6	7840.0	7819.3	7864.8	7868.9
5°	6913.7	6880.7	6967.5	7029.5	7161.8	7376.9	7596.0	7765.6	7844.1	7918.5	7906.1
7.5°	6347.2	6330.7	6417.5	6558.1	6678.0	6938.5	7290.0	7707.7	7691.1	7873.1	7926.8
10°	5958.6	5975.1	6004.0	6144.6	6322.4	6587.1	7025.4	7414.1	7500.9	7885.5	7993.0
12.5°	5602.9	5631.9	5685.6	5830.4	6037.1	6310.0	6735.9	7190.8	7323.1	7815.2	8030.2
15°	5487.2	5421.0	5528.5	5636.0	5851.0	6095.0	6454.8	7021.2	7079.1	7732.5	8092.2
17.5°	5392.1	5350.7	5400.3	5487.2	5714.6	5913.1	6252.1	6839.3	6946.8	7699.4	8083.9
20°	5421.0	5383.8	5404.5	5470.6	5574.0	5760.1	6074.3	6665.6	6781.4	7546.4	8071.5
22.5°	5503.7	5532.6	5495.4	5512.0	5545.1	5640.2	5979.2	6541.6	6640.8	7517.5	8141.8
25°	5875.9	5826.2	5776.6	5755.9	5561.6	5602.9	5950.3	6533.3	6603.6	7414.1	8083.9
27.5°	6264.5	6223.2	6202.5	6082.6	5818.0	5693.9	5954.4	6417.5	6512.6	7372.7	8013.7
30°	6735.9	6789.7	6707.0	6562.3	6194.2	5888.3	5999.9	6359.6	6492.0	7215.6	7968.2
32.5°	7232.1	7261.1	7302.4	7194.9	6719.4	6181.8	6136.4	6413.4	6421.7	7215.6	7864.8
35°	7794.5	7753.1	7860.7	7868.9	7451.3	6702.9	6396.9	6450.6	6537.5	7182.5	7827.6
37.5°	8278.3	8348.6	8472.6	8671.1	8241.1	7438.9	6802.1	6624.3	6661.5	7335.5	7856.5
40°	8807.6	8877.9	9159.1	9357.5	9113.6	8265.9	7418.2	7029.5	7058.5	7562.9	8005.4
42.5°	9390.6	9527.1	9862.0	10209.3	10143.2	9316.2	8212.1	7625.0	7612.6	8129.4	8311.4
45°	10180.4	10362.3	10726.2	11127.3	11185.2	10519.5	9270.7	8514.0	8555.3	8869.6	8944.0
47.5°	11280.3	11272.0	11627.7	12074.2	12409.2	11768.2	10536.0	9709.0	9704.9	10039.8	9882.7
50°	12343.0	12347.1	12442.2	12959.1	13827.5	13500.8	12103.2	11296.9	11251.4	11416.8	11164.5
52.5°	12835.1	12777.2	12706.9	13331.3	14919.1	15684.1	14088.0	13095.6	13058.4	12959.1	12893.0
55°	12318.2	12338.9	12334.7	12983.9	15493.9	17987.3	16635.2	15076.3	15014.2	14704.1	14795.1
57.5°	10660.1	10593.9	10738.6	11751.7	14836.4	19558.6	20278.1	17573.8	17412.5	16382.9	16176.2
60°	7935.1	7955.8	8075.7	9270.7	13203.1	19889.4	23763.9	20505.5	19810.8	17565.5	17280.2
62.5°	5540.9	5499.6	5545.1	6214.9	9440.2	18566.2	26120.9	24069.9	23400.0	18909.4	18744.0
65°	3965.5	3911.7	4093.7	4503.0	5669.1	14195.5	26455.8	28816.9	28217.3	21055.5	20658.5
67.5°	2853.2	2844.9	3055.8	3800.1	4027.5	8174.9	23974.8	33117.3	32753.4	23602.6	21824.6
69°	2361.1	2365.2	2567.8	3403.1	3845.6	5582.3	20629.6	33857.5	33791.3	24917.6	21605.4
70°	2059.2	2075.8	2311.5	3167.4	3771.1	4589.9	17784.7	33129.7	33063.6	25173.9	20881.8
72.5°	1269.4	1281.9	1592.0	2538.9	3585.1	3746.3	10635.2	27105.0	27332.4	23999.6	17991.4
75°	607.8	612.0	835.3	1835.9	3456.9	3552.0	5698.0	20001.1	20480.7	19376.7	14059.0
77.5°	322.5	322.5	401.1	975.9	2799.4	3341.1	3382.4	14108.7	14505.6	12252.0	7993.0
80°	161.3	165.4	244.0	508.6	1736.7	3274.9	2642.3	8414.7	8629.8	4999.2	2489.3
82.5°	62.0	66.2	115.8	306.0	901.4	2766.3	2319.7	4139.1	4085.4	1170.2	607.8
85°	8.3	8.3	41.4	181.9	384.6	1219.8	1914.5	1728.4	1670.5	256.4	293.6
87.5°	0.0	0.0	8.3	53.8	115.8	355.6	740.2	475.5	529.3	70.3	144.7
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°	7728.3	7728.3	7728.3	7728.3	7728.3	7728.3	7728.3	7728.3	7728.3	7728.3	7728.3
2.5°	7848.3	7761.4	7629.1	7500.9	7364.5	7199.1	7017.1	6951.0	6835.2	6826.9	6893.1
5°	7840.0	7699.4	7467.8	7194.9	6806.2	6512.6	6194.2	5962.7	5784.9	5669.1	5698.0
7.5°	7881.3	7711.8	7310.7	6723.5	6223.2	5640.2	5148.1	4809.0	4498.9	4345.9	4329.4
10°	7815.2	7587.7	7000.6	6177.7	5441.7	4627.1	3907.6	3452.7	2989.6	2820.1	2828.3
12.5°	7852.4	7534.0	6665.6	5615.3	4602.3	3543.7	2683.6	2063.4	1629.2	1488.6	1472.1
15°	7877.2	7418.2	6343.1	4941.3	3671.9	2414.8	1554.8	1170.2	1033.8	1008.9	1004.8
17.5°	7782.1	7277.6	5888.3	4275.6	2720.8	1467.9	1033.8	955.2	930.4	913.8	905.6
20°	7778.0	7194.9	5495.4	3593.3	1815.3	1000.7	893.2	864.2	827.0	814.6	814.6
22.5°	7707.7	7021.2	5024.0	2844.9	1157.8	860.1	802.2	756.7	715.4	698.8	694.7
25°	7687.0	6818.6	4581.6	2137.8	880.8	769.1	711.2	645.1	595.4	570.6	558.2
27.5°	7629.1	6645.0	4135.0	1505.1	769.1	686.4	612.0	541.7	483.8	446.6	442.4
30°	7422.3	6463.0	3638.8	1042.0	698.8	607.8	525.1	442.4	384.6	359.7	351.5
32.5°	7335.5	6293.5	3097.1	802.2	636.8	537.6	442.4	368.0	322.5	297.7	293.6
35°	7232.1	6045.4	2572.0	698.8	578.9	467.3	372.2	310.1	272.9	252.2	252.2
37.5°	7244.5	5846.9	2079.9	632.7	516.9	401.1	318.4	264.6	231.6	210.9	210.9
40°	7207.3	5689.8	1616.8	574.8	459.0	343.2	268.8	223.3	194.3	173.7	169.5
42.5°	7376.9	5648.4	1219.8	525.1	401.1	293.6	231.6	190.2	161.3	136.5	136.5
45°	7662.2	5714.6	951.1	479.7	343.2	252.2	198.5	157.1	128.2	111.6	107.5
47.5°	8423.0	5975.1	744.3	442.4	293.6	219.2	165.4	128.2	103.4	86.8	82.7
50°	9527.1	6558.1	632.7	388.7	248.1	186.1	136.5	99.2	82.7	66.2	62.0
52.5°	11098.4	7538.1	574.8	343.2	206.8	153.0	107.5	78.6	62.0	49.6	45.5
55°	12810.3	8762.1	521.0	289.5	173.7	124.1	86.8	62.0	45.5	33.1	28.9
57.5°	14145.9	9820.7	475.5	239.8	140.6	99.2	66.2	45.5	33.1	20.7	16.5
60°	15605.5	10565.0	417.6	190.2	115.8	74.4	49.6	33.1	24.8	12.4	12.4
62.5°	17110.7	11437.4	343.2	148.9	91.0	57.9	37.2	24.8	16.5	4.1	4.1
65°	19203.0	12119.7	264.6	115.8	70.3	41.4	28.9	20.7	8.3	0.0	0.0
67.5°	19794.3	11784.8	194.3	91.0	49.6	28.9	20.7	12.4	4.1	0.0	0.0
69°	19203.0	10614.6	169.5	78.6	41.4	24.8	16.5	8.3	4.1	0.0	0.0
70°	18123.8	9704.9	148.9	66.2	37.2	24.8	12.4	8.3	4.1	0.0	0.0
72.5°	15159.0	7443.0	115.8	49.6	28.9	20.7	12.4	8.3	0.0	0.0	0.0
75°	11119.0	4598.1	86.8	37.2	24.8	16.5	12.4	8.3	0.0	0.0	0.0
77.5°	5958.6	1678.8	62.0	24.8	16.5	12.4	12.4	8.3	0.0	0.0	0.0
80°	1633.3	496.2	45.5	16.5	12.4	8.3	8.3	4.1	0.0	0.0	0.0
82.5°	446.6	128.2	28.9	16.5	12.4	8.3	4.1	0.0	0.0	0.0	0.0
85°	239.8	49.6	16.5	12.4	8.3	4.1	0.0	0.0	0.0	0.0	0.0
87.5°	124.1	16.5	12.4	8.3	8.3	4.1	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)