

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: P480254

Luminaire Tested: **IFLD-L-SA8B-827-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480254  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-827-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (128) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

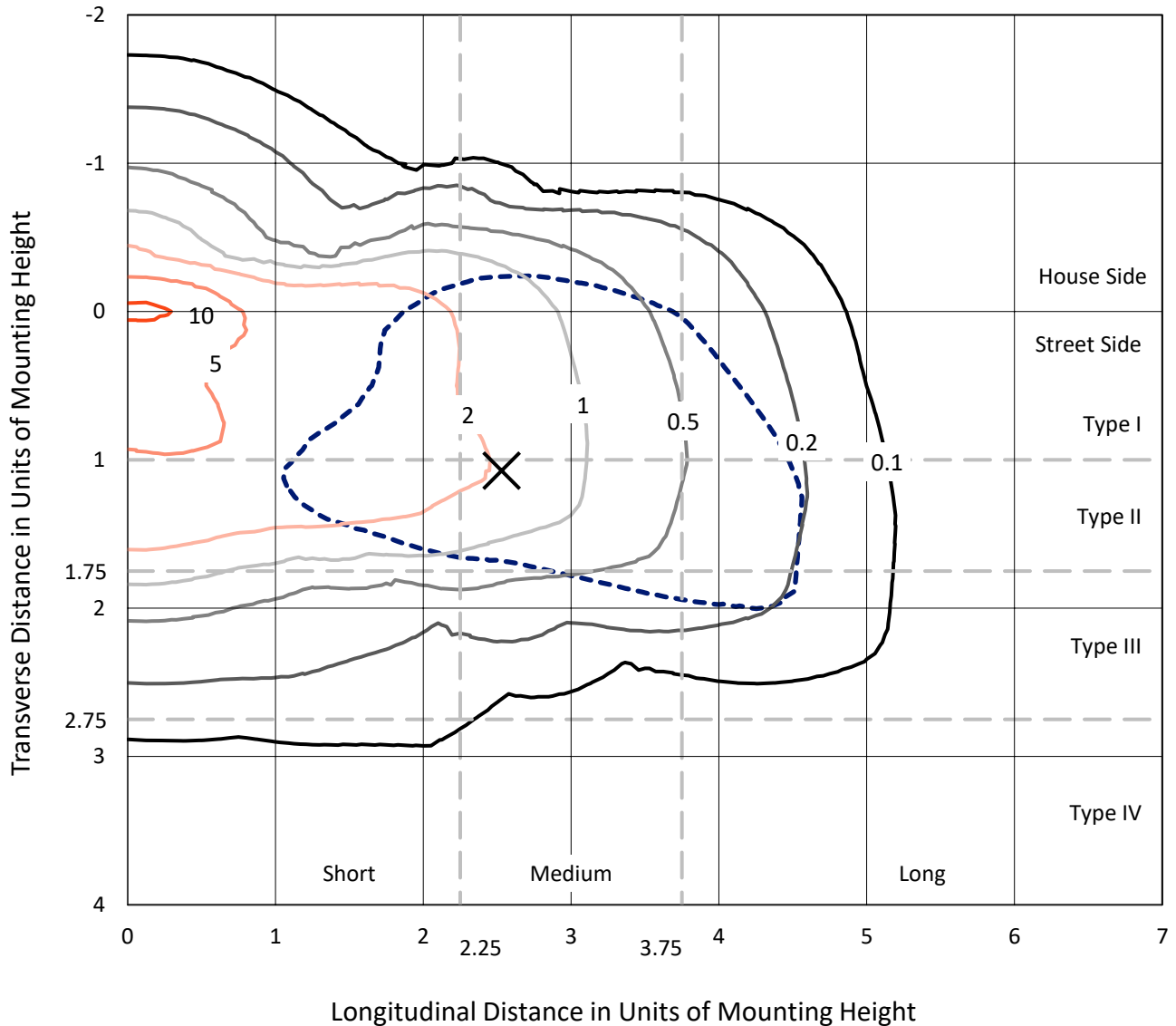
Lumens per Lamp: N/A  
Luminaire Lumens: 29829.6 lumens  
Efficiency: N/A  
Efficacy: 93.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

Input Watts (W): 320  
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

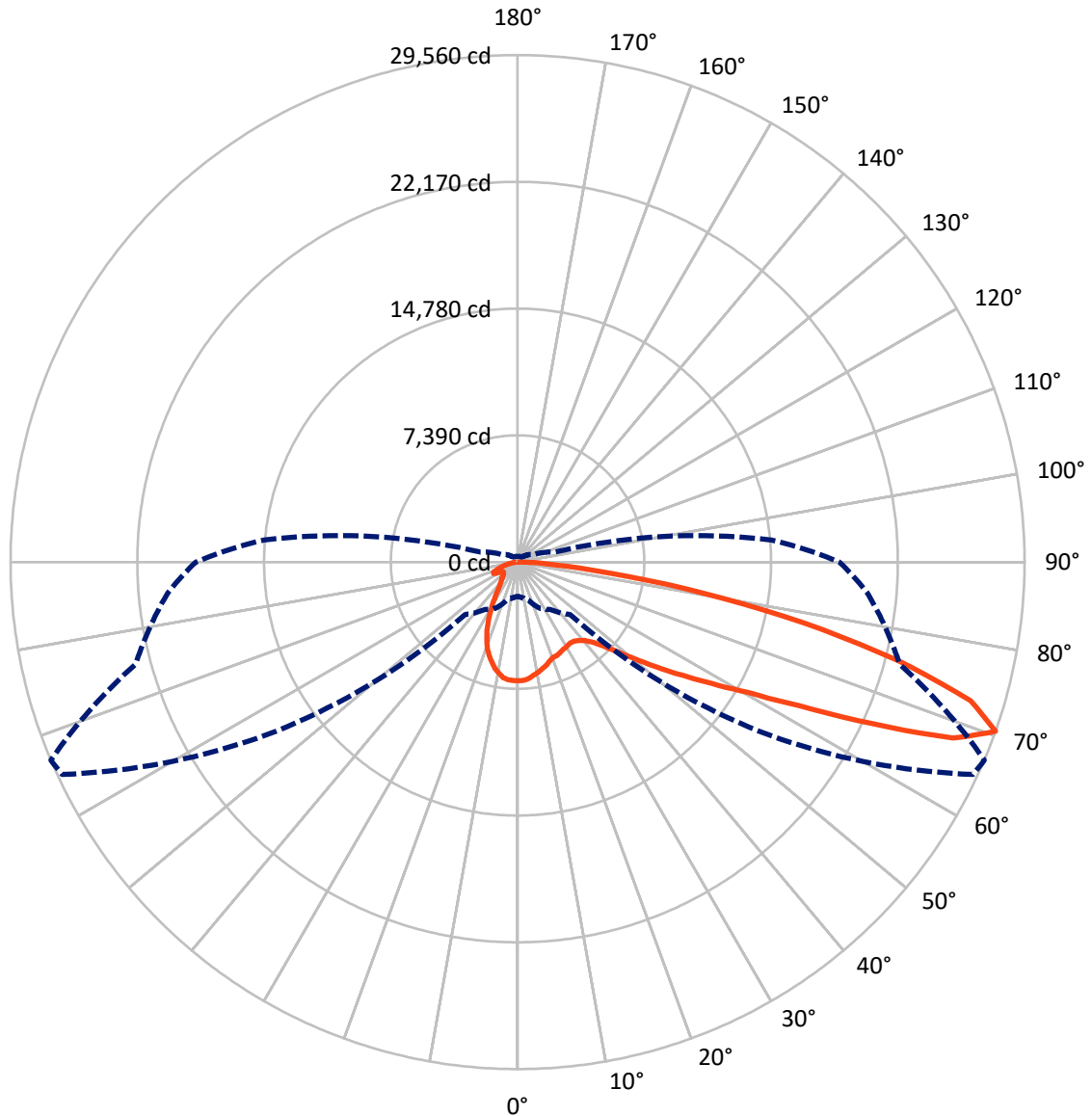
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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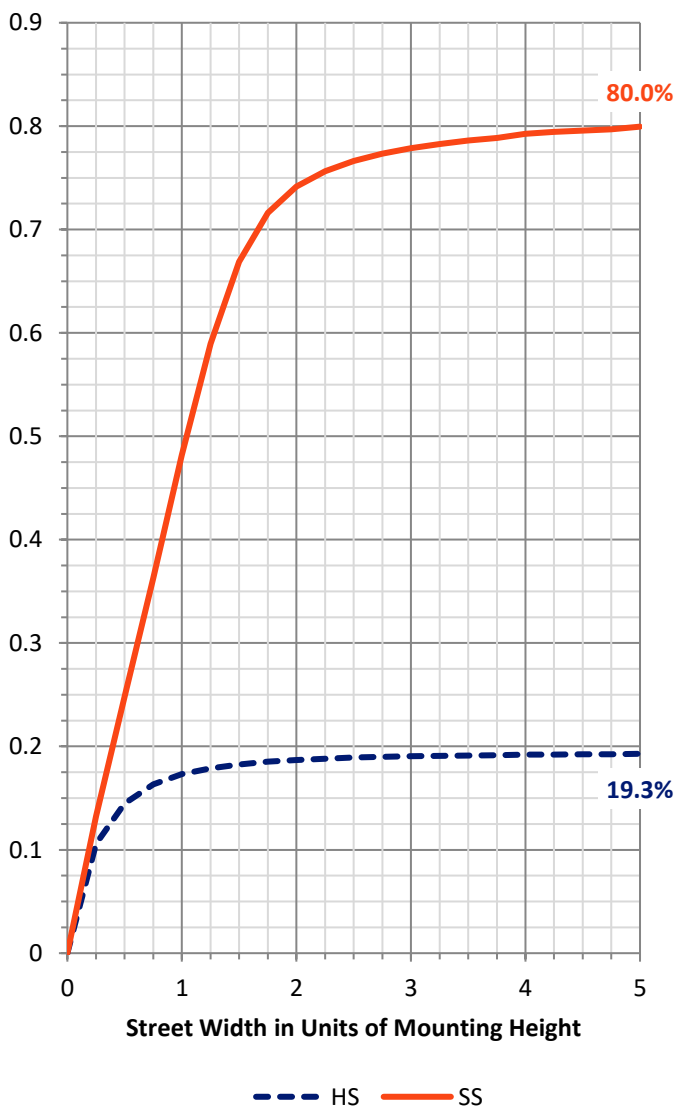
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5809.6	0.0	5809.6
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	24020.0	0.0	24020.0
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	29829.6	0.0	29829.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	602.5	2.0
10°-20°	1443.0	4.8
20°-30°	1948.7	6.5
30°-40°	2607.5	8.7
40°-50°	3834.3	12.9
50°-60°	5976.7	20.0
60°-70°	7362.2	24.7
70°-80°	5202.1	17.4
80°-90°	852.6	2.9
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°	29829.6	100.0
0°-180°	29829.6	100.0

**Coefficient of Utilization**



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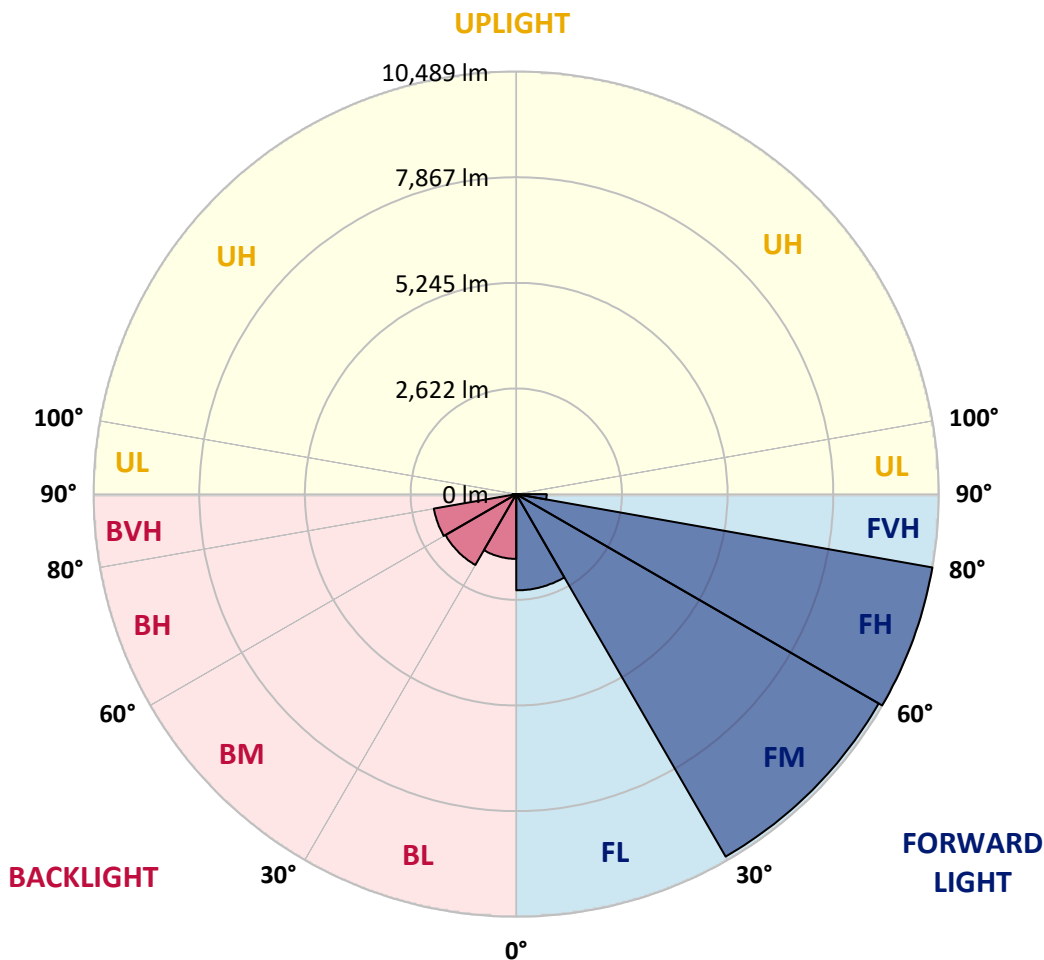
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2387.6	8.0			
FM	(30°-60°)	10389.0	34.8			
FH	(60°-80°)	10489.1	35.2			G4/12000
FVH	(80°-90°)	754.3	2.5			G5
BL	(0°-30°)	1606.6	5.4	B3/2500		
BM	(30°-60°)	2029.4	6.8	B2/2500		
BH	(60°-80°)	2075.3	7.0	B3/2500		G3/2500
BVH	(80°-90°)	98.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6905.5	6905.5	6905.5	6905.5	6905.5	6905.5	6905.5	6905.5	6905.5	6905.5	6905.5
2.5°	6429.9	6502.6	6529.0	6568.6	6671.0	6746.9	6793.2	6846.0	6908.8	6961.6	6994.6
5°	5980.8	6020.4	6083.1	6126.1	6254.9	6459.6	6598.3	6822.9	6816.3	6898.8	7024.3
7.5°	5544.8	5584.5	5614.2	5700.1	5885.0	6069.9	6324.2	6687.5	6661.1	6852.6	7047.5
10°	5274.0	5244.3	5254.2	5399.5	5544.8	5752.9	6073.2	6443.1	6538.9	6836.1	7113.5
12.5°	5019.7	4986.7	5066.0	5158.4	5336.8	5525.0	5908.1	6241.7	6387.0	6776.7	7143.2
15°	4861.2	4838.1	4937.2	4976.8	5188.2	5412.7	5683.5	6089.7	6248.3	6704.0	7097.0
17.5°	4772.1	4791.9	4828.2	4914.1	5049.5	5241.0	5538.2	5987.4	6056.7	6614.8	7087.1
20°	4788.6	4811.7	4815.0	4851.3	4943.8	5092.4	5396.2	5878.4	5924.6	6598.3	7113.5
22.5°	4920.7	4887.6	4900.9	4877.7	4904.2	5019.7	5287.2	5733.1	5911.4	6459.6	7057.4
25°	5118.8	5072.6	5066.0	4986.7	4937.2	4970.2	5267.4	5696.8	5812.3	6416.7	7054.1
27.5°	5468.9	5399.5	5399.5	5280.6	5079.2	5026.4	5211.3	5637.3	5739.7	6377.1	6978.1
30°	5805.7	5805.7	5809.0	5640.6	5416.0	5155.1	5234.4	5614.2	5680.2	6258.2	6875.7
32.5°	6215.2	6205.3	6188.8	6106.3	5759.5	5369.8	5346.7	5584.5	5617.5	6218.5	6846.0
35°	6614.8	6588.4	6717.2	6644.6	6291.2	5789.2	5462.3	5597.7	5670.3	6159.1	6753.5
37.5°	6915.4	6931.9	7199.4	7245.6	6941.8	6264.8	5789.2	5729.8	5799.1	6245.0	6753.5
40°	7305.1	7371.1	7622.1	7777.3	7592.4	6892.2	6307.7	5951.0	6000.6	6436.5	6898.8
42.5°	7816.9	7873.1	8193.4	8394.9	8342.0	7691.4	6819.6	6413.4	6373.8	6756.8	7116.8
45°	8493.9	8503.8	8827.5	9104.9	9213.9	8527.0	7632.0	6997.9	6964.9	7308.4	7516.4
47.5°	9299.7	9289.8	9491.3	9788.5	10082.4	9524.3	8566.6	7886.3	7767.4	8097.6	8180.2
50°	10079.1	10036.2	10082.4	10462.2	11026.9	10772.6	9702.6	8972.8	8853.9	9035.5	9177.5
52.5°	10508.4	10561.3	10435.8	10937.8	12030.9	12248.8	11208.6	10270.7	10168.3	10257.5	10505.1
55°	10207.9	10316.9	10234.3	10709.9	12470.1	14048.7	13157.0	11773.3	11641.2	11608.2	12014.4
57.5°	8929.9	9128.0	9144.5	9897.5	12318.2	15442.3	15898.1	13546.7	13348.6	13011.7	13431.1
60°	6855.9	7054.1	7206.0	8097.6	11017.0	16274.5	19075.0	16069.8	15415.9	14544.1	14795.0
62.5°	4805.1	4940.5	5092.4	5640.6	8493.9	15785.8	21822.7	19623.2	18417.8	16159.0	16472.7
65°	3500.6	3606.3	3761.5	4085.1	5217.9	13061.2	23097.4	23843.8	22701.1	18213.1	18173.5
67.5°	2635.4	2701.4	2906.2	3424.7	3616.2	8067.9	21776.5	28302.1	27377.4	20495.1	19540.7
70°	1994.7	2050.8	2242.4	2952.4	3378.4	4326.2	17179.4	29296.2	29560.4	23054.5	20458.8
72.5°	1373.8	1436.6	1651.2	2460.3	3216.6	3431.3	10782.5	26614.6	27615.2	24108.0	19474.6
75°	842.1	885.1	1010.6	1865.9	3193.5	3355.3	5934.5	21809.5	22869.6	22275.1	17037.4
77.5°	594.4	591.1	614.3	1093.1	2767.5	3375.1	3659.1	15980.6	17011.0	16416.6	11561.9
80°	432.6	435.9	459.0	653.9	1879.1	3431.3	2883.1	10703.3	11010.4	8560.0	4560.7
82.5°	260.9	274.1	330.2	442.5	1129.4	3097.7	2665.1	5947.7	5564.7	2747.7	1254.9
85°	138.7	138.7	194.8	280.7	601.0	2311.7	2566.0	2830.2	2371.2	852.0	465.6
87.5°	33.0	33.0	56.1	112.3	241.1	1106.3	1750.3	1126.1	901.6	287.3	191.5
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°	6905.5	6905.5	6905.5	6905.5	6905.5	6905.5	6905.5	6905.5	6905.5	6905.5	6905.5
2.5°	6981.4	6941.8	6991.3	6892.2	6813.0	6816.3	6694.1	6687.5	6671.0	6585.1	6614.8
5°	7060.7	7027.6	6971.5	6862.5	6687.5	6512.5	6406.8	6271.4	6215.2	6185.5	6198.7
7.5°	7136.6	7077.2	6915.4	6763.4	6492.6	6162.4	5970.9	5789.2	5558.0	5531.6	5485.4
10°	7156.4	7030.9	6822.9	6499.3	6139.3	5772.7	5336.8	4999.9	4821.6	4682.9	4630.1
12.5°	7126.7	7073.9	6674.3	6258.2	5713.3	5138.6	4630.1	4154.5	3824.3	3652.5	3606.3
15°	7123.4	7030.9	6509.2	5891.6	5194.8	4445.1	3721.9	3150.6	2803.8	2661.8	2661.8
17.5°	7126.7	6905.5	6314.3	5521.7	4583.8	3570.0	2774.1	2305.1	2113.6	2093.8	2110.3
20°	7060.7	6813.0	6109.6	5085.8	3817.6	2681.6	2014.5	1823.0	1823.0	1849.4	1859.3
22.5°	7001.2	6674.3	5785.9	4547.5	3038.3	1941.8	1638.0	1581.9	1644.6	1690.9	1710.7
25°	6918.7	6558.7	5455.7	3989.4	2311.7	1565.4	1423.4	1436.6	1496.0	1578.6	1572.0
27.5°	6799.8	6357.2	5062.7	3342.1	1720.6	1350.7	1314.4	1321.0	1383.7	1420.1	1413.5
30°	6664.4	6152.5	4699.4	2698.1	1363.9	1238.4	1235.1	1251.6	1261.5	1281.4	1278.1
32.5°	6492.6	5881.7	4313.0	2097.1	1228.5	1175.7	1162.5	1152.6	1162.5	1159.2	1149.3
35°	6370.5	5736.4	3920.0	1598.4	1152.6	1119.5	1109.6	1093.1	1079.9	1060.1	1056.8
37.5°	6337.4	5591.1	3507.2	1304.5	1093.1	1076.6	1043.6	1013.9	997.3	987.4	980.8
40°	6317.6	5495.3	3104.3	1146.0	1043.6	1027.1	987.4	947.8	931.3	921.4	924.7
42.5°	6387.0	5442.5	2694.8	1066.7	1000.6	970.9	928.0	881.8	878.5	871.9	881.8
45°	6631.3	5508.5	2315.0	1010.6	957.7	908.2	852.0	828.9	825.6	819.0	825.6
47.5°	7186.2	5673.6	1991.4	974.2	911.5	868.5	809.1	776.1	772.8	769.5	769.5
50°	7952.3	6182.2	1720.6	931.3	881.8	822.3	766.2	729.8	723.2	710.0	710.0
52.5°	9154.4	7037.6	1558.8	908.2	828.9	779.4	719.9	680.3	663.8	650.6	650.6
55°	10508.4	8097.6	1529.0	868.5	772.8	726.5	673.7	634.1	617.6	601.0	594.4
57.5°	12050.7	9501.2	1740.4	842.1	733.1	673.7	614.3	577.9	564.7	548.2	541.6
60°	13487.3	10901.4	2397.6	802.5	696.8	624.2	564.7	528.4	511.9	495.4	495.4
62.5°	15148.4	12635.2	3510.5	802.5	663.8	571.3	511.9	485.5	475.6	459.0	455.7
65°	17113.4	14428.5	4322.9	852.0	653.9	525.1	462.3	435.9	426.0	416.1	412.8
67.5°	18609.4	15458.8	3718.6	984.1	696.8	485.5	412.8	396.3	389.7	379.8	373.2
70°	18767.9	14831.4	2242.4	1063.4	739.8	445.8	369.9	353.4	353.4	343.5	336.9
72.5°	17344.5	13160.3	1509.2	947.8	670.4	399.6	326.9	313.7	307.1	300.5	297.2
75°	14514.3	11162.3	1192.2	756.3	515.2	330.2	284.0	270.8	260.9	257.6	251.0
77.5°	9748.9	7255.5	881.8	591.1	379.8	267.5	237.8	224.6	214.7	211.4	201.5
80°	3745.0	2764.2	568.0	429.3	267.5	211.4	188.2	175.0	168.4	158.5	151.9
82.5°	1103.0	895.0	317.0	264.2	171.7	145.3	135.4	125.5	115.6	105.7	102.4
85°	455.7	409.5	194.8	138.7	105.7	85.9	79.3	69.4	59.4	52.8	46.2
87.5°	211.4	175.0	89.2	52.8	36.3	19.8	9.9	3.3	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)