

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: P480251

Luminaire Tested: **IFLD-L-SA7D-827-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480251  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-827-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (112) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

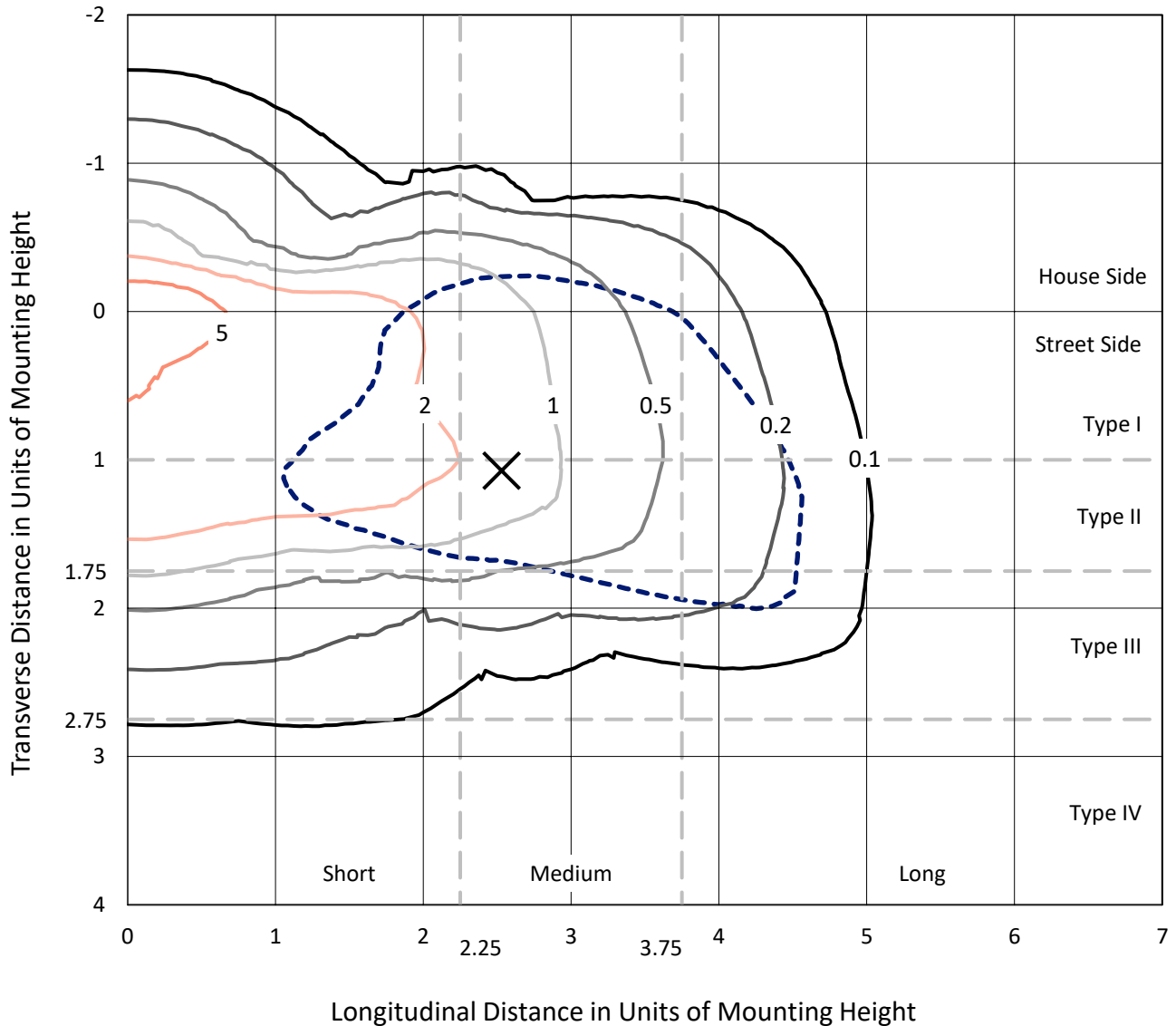
Lumens per Lamp: N/A  
Luminaire Lumens: 35752 lumens  
Efficiency: N/A  
Efficacy: 84.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6  
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

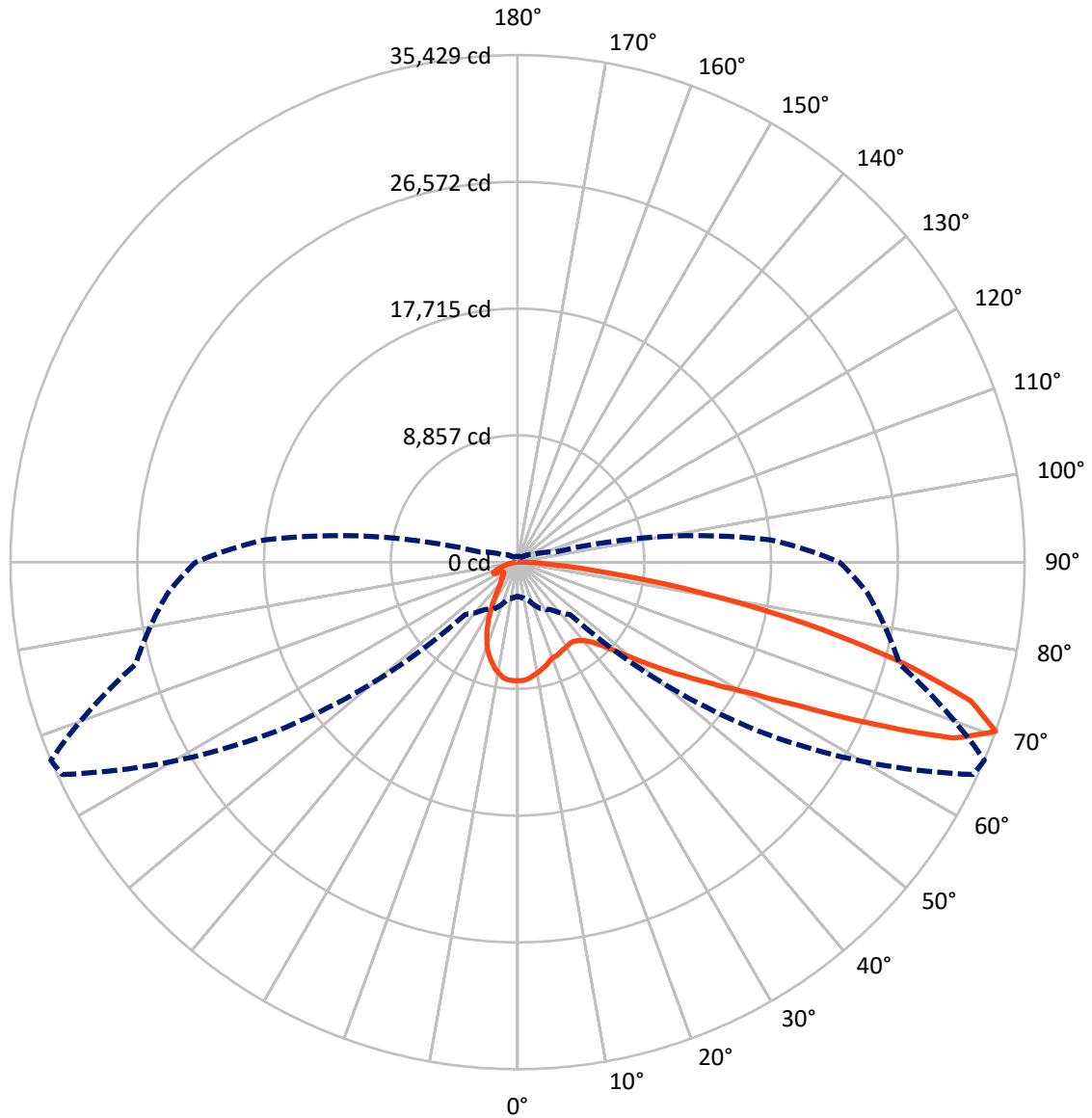
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.3 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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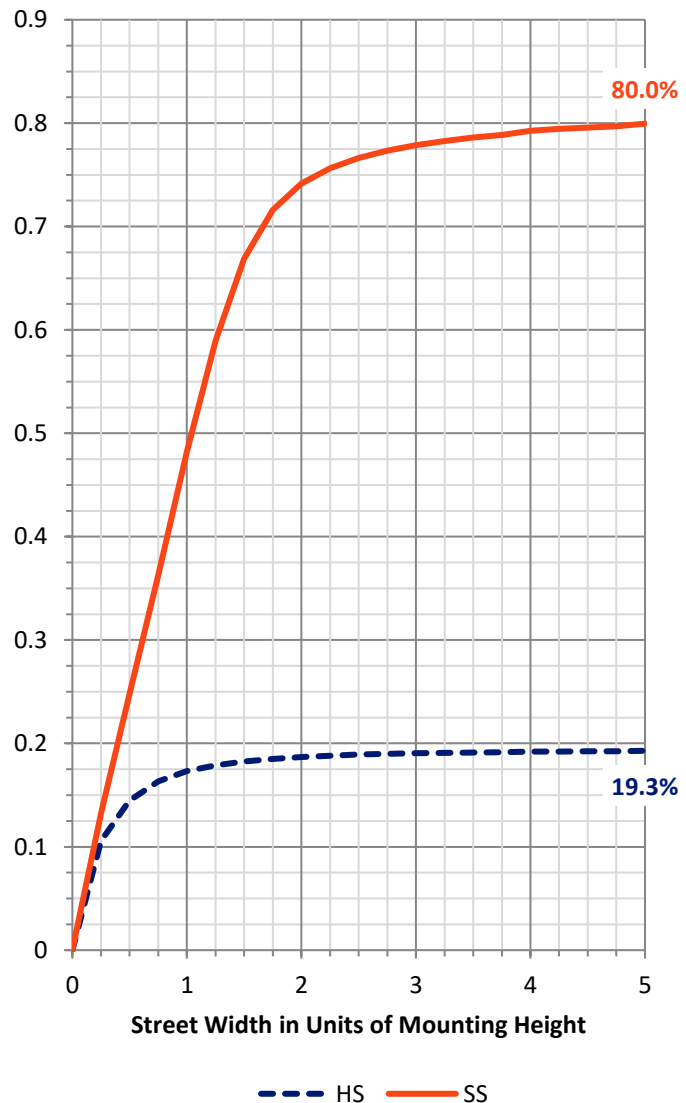
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6963.0	0.0	6963.0
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	28789.0	0.0	28789.0
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	35752.0	0.0	35752.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	722.1	2.0
10°-20°	1729.5	4.8
20°-30°	2335.6	6.5
30°-40°	3125.2	8.7
40°-50°	4595.5	12.9
50°-60°	7163.3	20.0
60°-70°	8824.0	24.7
70°-80°	6234.9	17.4
80°-90°	1021.9	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°	35752.0	100.0
0°-180°	35752.0	100.0

**Coefficient of Utilization**

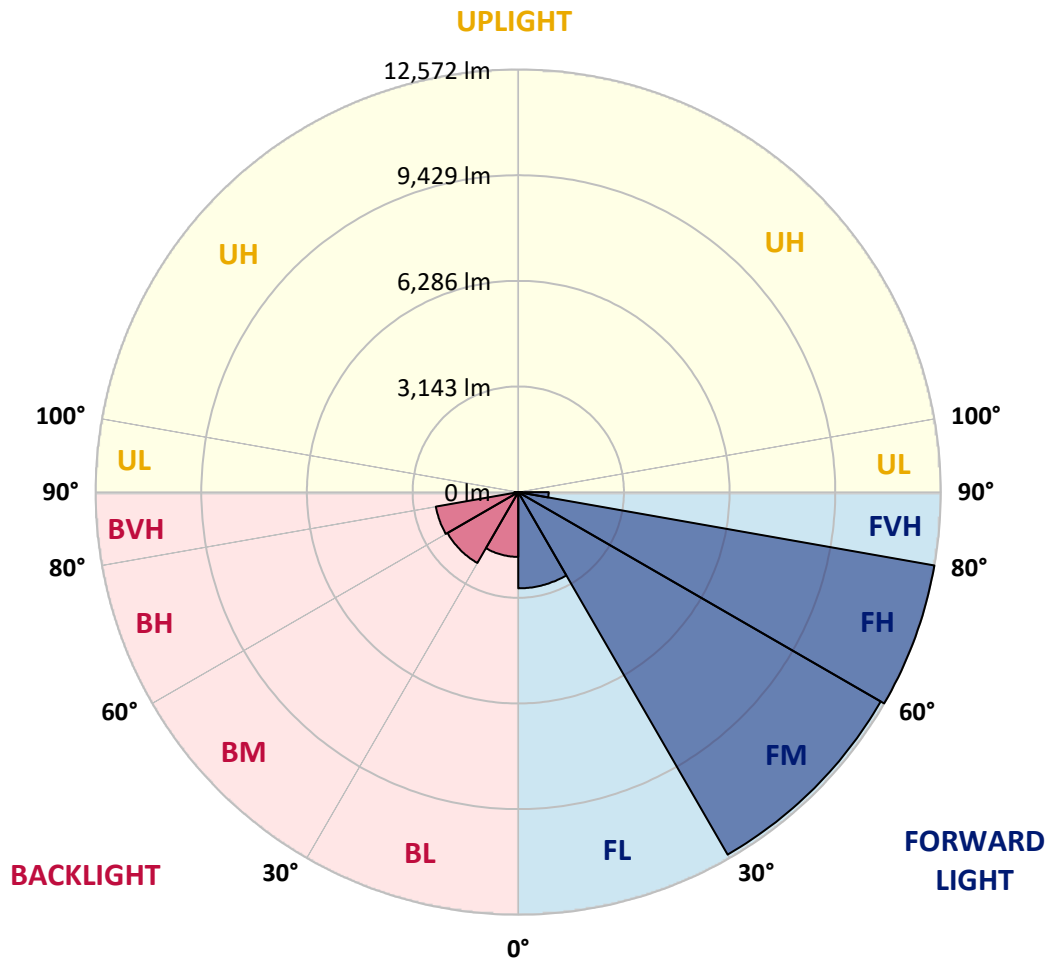


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2861.7	8.0			
FM (30°-60°)	12451.6	34.8			
FH (60°-80°)	12571.6	35.2			G5
FVH (80°-90°)	904.0	2.5			G5
BL (0°-30°)	1925.5	5.4	B3/2500		
BM (30°-60°)	2432.3	6.8	B2/2500		
BH (60°-80°)	2487.3	7.0	B3/2500		G3/2500
BVH (80°-90°)	117.9	0.3			G2/225
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°	8276.5	8276.5	8276.5	8276.5	8276.5	8276.5	8276.5	8276.5	8276.5	8276.5	8276.5
2.5°	7706.5	7793.6	7825.2	7872.7	7995.4	8086.5	8141.9	8205.2	8280.4	8343.8	8383.3
5°	7168.2	7215.7	7290.9	7342.4	7496.7	7742.1	7908.4	8177.5	8169.6	8268.6	8419.0
7.5°	6645.7	6693.2	6728.8	6831.8	7053.4	7275.1	7579.8	8015.2	7983.6	8213.1	8446.7
10°	6321.2	6285.5	6297.4	6471.6	6645.7	6895.1	7279.0	7722.3	7837.1	8193.4	8525.8
12.5°	6016.4	5976.8	6071.8	6182.6	6396.4	6622.0	7081.1	7480.9	7655.0	8122.1	8561.5
15°	5826.4	5798.7	5917.4	5964.9	6218.2	6487.4	6812.0	7298.8	7488.8	8035.0	8506.0
17.5°	5719.5	5743.3	5786.8	5889.7	6052.0	6281.6	6637.8	7176.1	7259.2	7928.2	8494.2
20°	5739.3	5767.0	5771.0	5814.5	5925.3	6103.5	6467.6	7045.5	7100.9	7908.4	8525.8
22.5°	5897.6	5858.0	5873.9	5846.2	5877.8	6016.4	6337.0	6871.3	7085.1	7742.1	8458.5
25°	6135.1	6079.7	6071.8	5976.8	5917.4	5957.0	6313.2	6827.8	6966.3	7690.7	8454.6
27.5°	6554.7	6471.6	6471.6	6329.1	6087.6	6024.3	6245.9	6756.5	6879.3	7643.2	8363.6
30°	6958.4	6958.4	6962.4	6760.5	6491.4	6178.7	6273.7	6728.8	6808.0	7500.7	8240.9
32.5°	7449.2	7437.3	7417.6	7318.6	6903.0	6435.9	6408.2	6693.2	6732.8	7453.2	8205.2
35°	7928.2	7896.5	8050.9	7963.8	7540.3	6938.6	6546.8	6709.0	6796.1	7381.9	8094.4
37.5°	8288.3	8308.1	8628.7	8684.2	8320.0	7508.6	6938.6	6867.4	6950.5	7484.8	8094.4
40°	8755.4	8834.6	9135.4	9321.4	9099.8	8260.6	7560.1	7132.6	7191.9	7714.4	8268.6
42.5°	9368.9	9436.2	9820.1	10061.6	9998.3	9218.5	8173.6	7686.7	7639.2	8098.4	8529.8
45°	10180.3	10192.2	10580.1	10912.6	11043.2	10219.9	9147.3	8387.3	8347.7	8759.4	9008.7
47.5°	11146.1	11134.3	11375.7	11731.9	12084.2	11415.3	10267.4	9452.0	9309.5	9705.4	9804.3
50°	12080.2	12028.8	12084.2	12539.4	13216.2	12911.5	11629.0	10754.3	10611.8	10829.5	10999.7
52.5°	12594.8	12658.1	12507.7	13109.4	14419.5	14680.7	13433.9	12309.8	12187.1	12294.0	12590.8
55°	12234.6	12365.2	12266.3	12836.3	14945.9	16837.9	15769.2	14110.8	13952.4	13912.9	14399.7
57.5°	10702.8	10940.3	10960.1	11862.6	14763.9	18508.3	19054.5	16236.3	15998.8	15595.1	16097.8
60°	8217.1	8454.6	8636.7	9705.4	13204.4	19505.7	22862.2	19260.3	18476.6	17431.7	17732.5
62.5°	5759.1	5921.4	6103.5	6760.5	10180.3	18919.9	26155.4	23519.3	22074.6	19367.2	19743.2
65°	4195.6	4322.3	4508.3	4896.2	6253.9	15654.4	27683.2	28577.8	27208.3	21829.2	21781.7
67.5°	3158.6	3237.8	3483.2	4104.6	4334.2	9669.7	26100.0	33921.3	32813.0	24564.2	23420.3
70°	2390.7	2458.0	2687.6	3538.6	4049.2	5185.2	20590.3	35112.7	35429.3	27631.8	24520.7
72.5°	1646.6	1721.8	1979.1	2948.8	3855.2	4112.5	12923.3	31898.7	33098.0	28894.4	23341.2
75°	1009.3	1060.8	1211.2	2236.3	3827.5	4021.5	7112.8	26139.6	27410.1	26697.7	20420.1
77.5°	712.5	708.5	736.2	1310.1	3316.9	4045.2	4385.6	19153.4	20388.4	19675.9	13857.5
80°	518.5	522.5	550.2	783.7	2252.2	4112.5	3455.5	12828.3	13196.4	10259.5	5466.2
82.5°	312.7	328.5	395.8	530.4	1353.7	3712.7	3194.2	7128.6	6669.5	3293.2	1504.1
85°	166.2	166.2	233.5	336.4	720.4	2770.7	3075.5	3392.1	2841.9	1021.2	558.1
87.5°	39.6	39.6	67.3	134.6	288.9	1326.0	2097.8	1349.7	1080.6	344.4	229.6
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°	8276.5	8276.5	8276.5	8276.5	8276.5	8276.5	8276.5	8276.5	8276.5	8276.5	8276.5
2.5°	8367.5	8320.0	8379.4	8260.6	8165.6	8169.6	8023.2	8015.2	7995.4	7892.5	7928.2
5°	8462.5	8422.9	8355.6	8225.0	8015.2	7805.5	7678.8	7516.5	7449.2	7413.6	7429.4
7.5°	8553.5	8482.3	8288.3	8106.3	7781.7	7385.9	7156.3	6938.6	6661.6	6629.9	6574.5
10°	8577.3	8426.9	8177.5	7789.6	7358.2	6918.8	6396.4	5992.6	5778.9	5612.6	5549.3
12.5°	8541.7	8478.3	7999.4	7500.7	6847.6	6158.9	5549.3	4979.3	4583.5	4377.7	4322.3
15°	8537.7	8426.9	7801.5	7061.3	6226.2	5327.7	4460.8	3776.1	3360.5	3190.3	3190.3
17.5°	8541.7	8276.5	7568.0	6618.0	5493.9	4278.8	3324.8	2762.8	2533.2	2509.5	2529.3
20°	8462.5	8165.6	7322.6	6095.5	4575.6	3214.0	2414.5	2184.9	2184.9	2216.6	2228.4
22.5°	8391.3	7999.4	6934.7	5450.4	3641.5	2327.4	1963.2	1895.9	1971.2	2026.6	2050.3
25°	8292.3	7860.9	6538.8	4781.4	2770.7	1876.2	1706.0	1721.8	1793.0	1892.0	1884.1
27.5°	8149.8	7619.4	6067.8	4005.6	2062.2	1618.9	1575.3	1583.3	1658.5	1702.0	1694.1
30°	7987.5	7374.0	5632.4	3233.8	1634.7	1484.3	1480.3	1500.1	1512.0	1535.8	1531.8
32.5°	7781.7	7049.5	5169.3	2513.4	1472.4	1409.1	1393.3	1381.4	1393.3	1389.3	1377.4
35°	7635.3	6875.3	4698.3	1915.7	1381.4	1341.8	1329.9	1310.1	1294.3	1270.6	1266.6
37.5°	7595.7	6701.1	4203.5	1563.5	1310.1	1290.4	1250.8	1215.1	1195.4	1183.5	1175.6
40°	7571.9	6586.3	3720.7	1373.5	1250.8	1231.0	1183.5	1136.0	1116.2	1104.3	1108.3
42.5°	7655.0	6523.0	3229.8	1278.5	1199.3	1163.7	1112.2	1056.8	1052.9	1044.9	1056.8
45°	7947.9	6602.2	2774.7	1211.2	1147.9	1088.5	1021.2	993.5	989.5	981.6	989.5
47.5°	8612.9	6800.1	2386.8	1167.7	1092.4	1041.0	969.7	930.2	926.2	922.2	922.2
50°	9531.2	7409.6	2062.2	1116.2	1056.8	985.6	918.3	874.7	866.8	851.0	851.0
52.5°	10972.0	8434.8	1868.2	1088.5	993.5	934.1	862.9	815.4	795.6	779.8	779.8
55°	12594.8	9705.4	1832.6	1041.0	926.2	870.8	807.5	760.0	740.2	720.4	712.5
57.5°	14443.3	11387.6	2085.9	1009.3	878.7	807.5	736.2	692.7	676.8	657.1	649.1
60°	16165.1	13065.8	2873.6	961.8	835.2	748.1	676.8	633.3	613.5	593.7	593.7
62.5°	18156.0	15143.8	4207.5	961.8	795.6	684.8	613.5	581.8	570.0	550.2	546.2
65°	20511.1	17293.1	5181.2	1021.2	783.7	629.3	554.1	522.5	510.6	498.7	494.8
67.5°	22304.1	18528.1	4456.9	1179.5	835.2	581.8	494.8	475.0	467.1	455.2	447.3
70°	22494.1	17776.0	2687.6	1274.5	886.6	534.3	443.3	423.5	423.5	411.6	403.7
72.5°	20788.2	15773.2	1808.9	1136.0	803.5	478.9	391.9	376.0	368.1	360.2	356.2
75°	17396.0	13378.5	1428.9	906.4	617.5	395.8	340.4	324.6	312.7	308.7	300.8
77.5°	11684.4	8696.0	1056.8	708.5	455.2	320.6	285.0	269.2	257.3	253.3	241.4
80°	4488.5	3313.0	680.8	514.6	320.6	253.3	225.6	209.8	201.9	190.0	182.1
82.5°	1322.0	1072.7	380.0	316.7	205.8	174.2	162.3	150.4	138.5	126.7	122.7
85°	546.2	490.8	233.5	166.2	126.7	102.9	95.0	83.1	71.2	63.3	55.4
87.5°	253.3	209.8	106.9	63.3	43.5	23.7	11.9	4.0	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)