

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: P480054

Luminaire Tested: **IFLD-L-SA7B-730-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480054
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-730-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

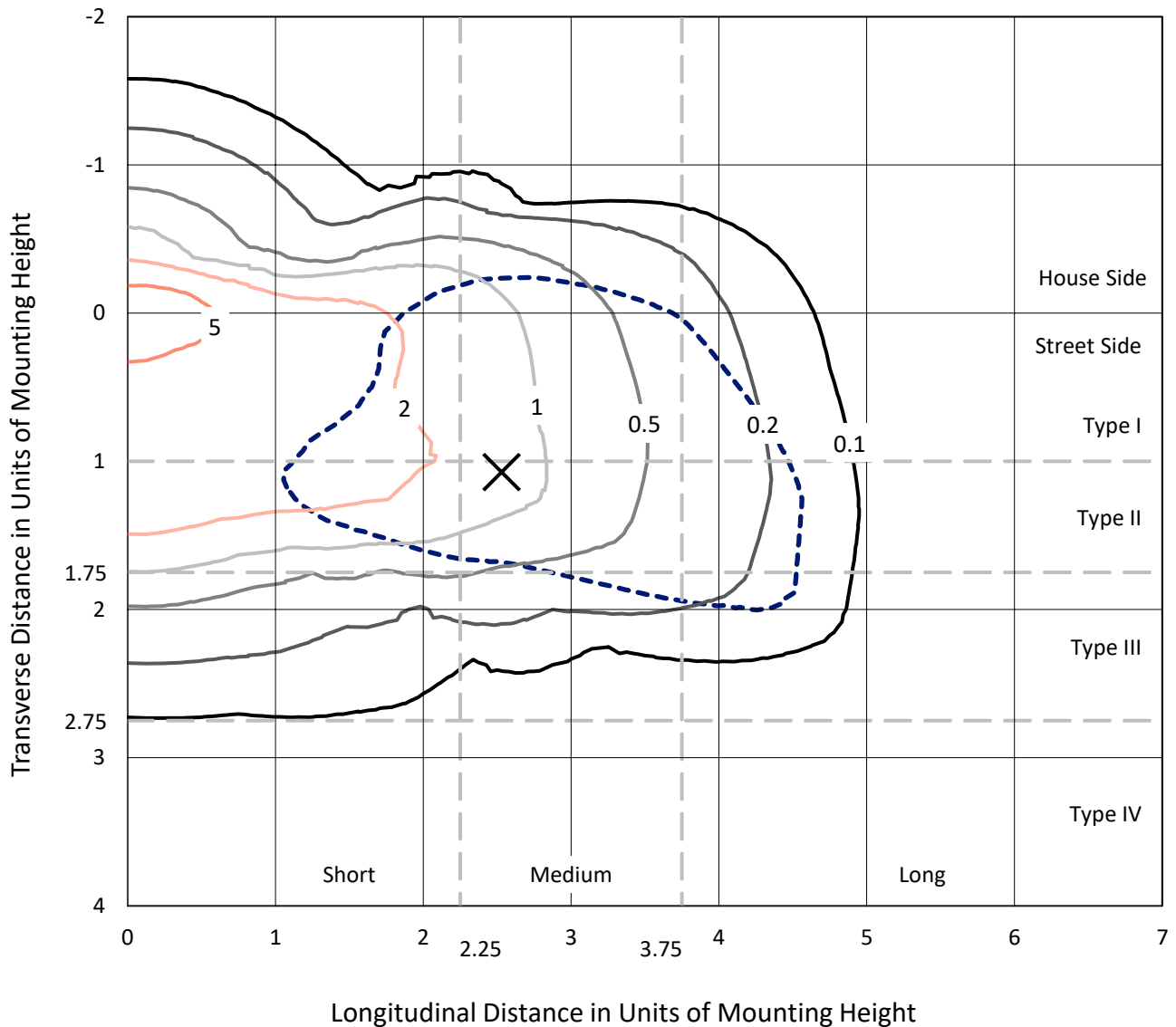
Lumens per Lamp: N/A
Luminaire Lumens: 32332.9 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 281
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

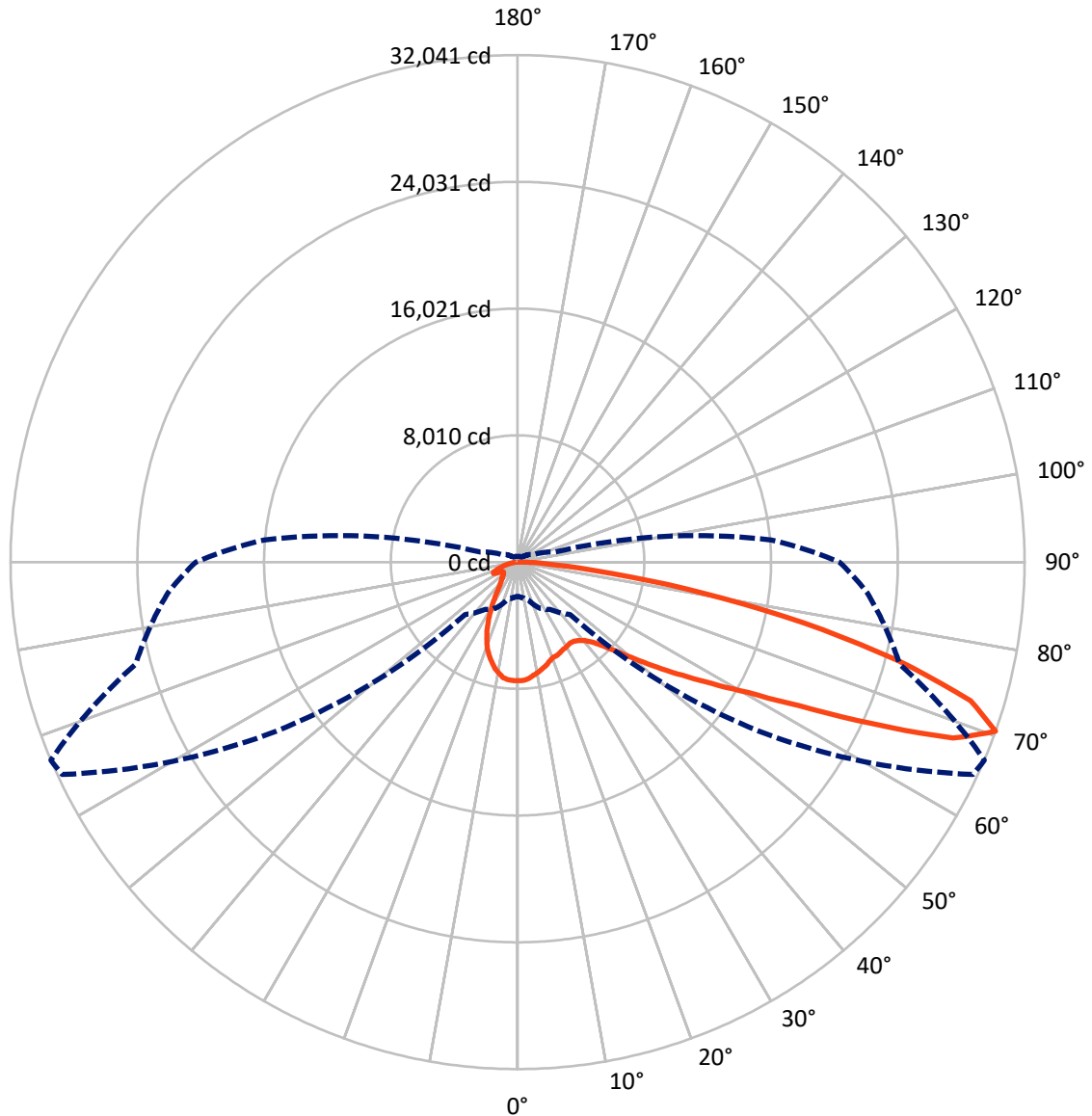
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.4 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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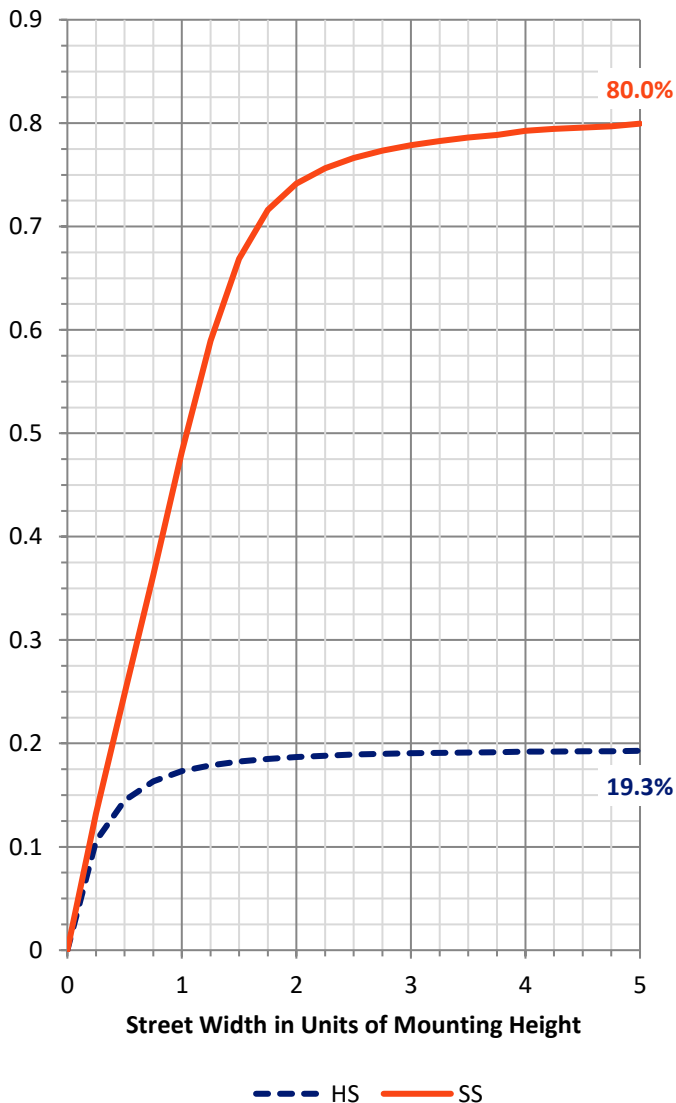
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6297.1	0.0	6297.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	26035.8	0.0	26035.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	32332.9	0.0	32332.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	653.1	2.0
10°-20°	1564.1	4.8
20°-30°	2112.2	6.5
30°-40°	2826.3	8.7
40°-50°	4156.0	12.9
50°-60°	6478.2	20.0
60°-70°	7980.1	24.7
70°-80°	5638.7	17.4
80°-90°	924.2	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°	32332.9	100.0
0°-180°	32332.9	100.0



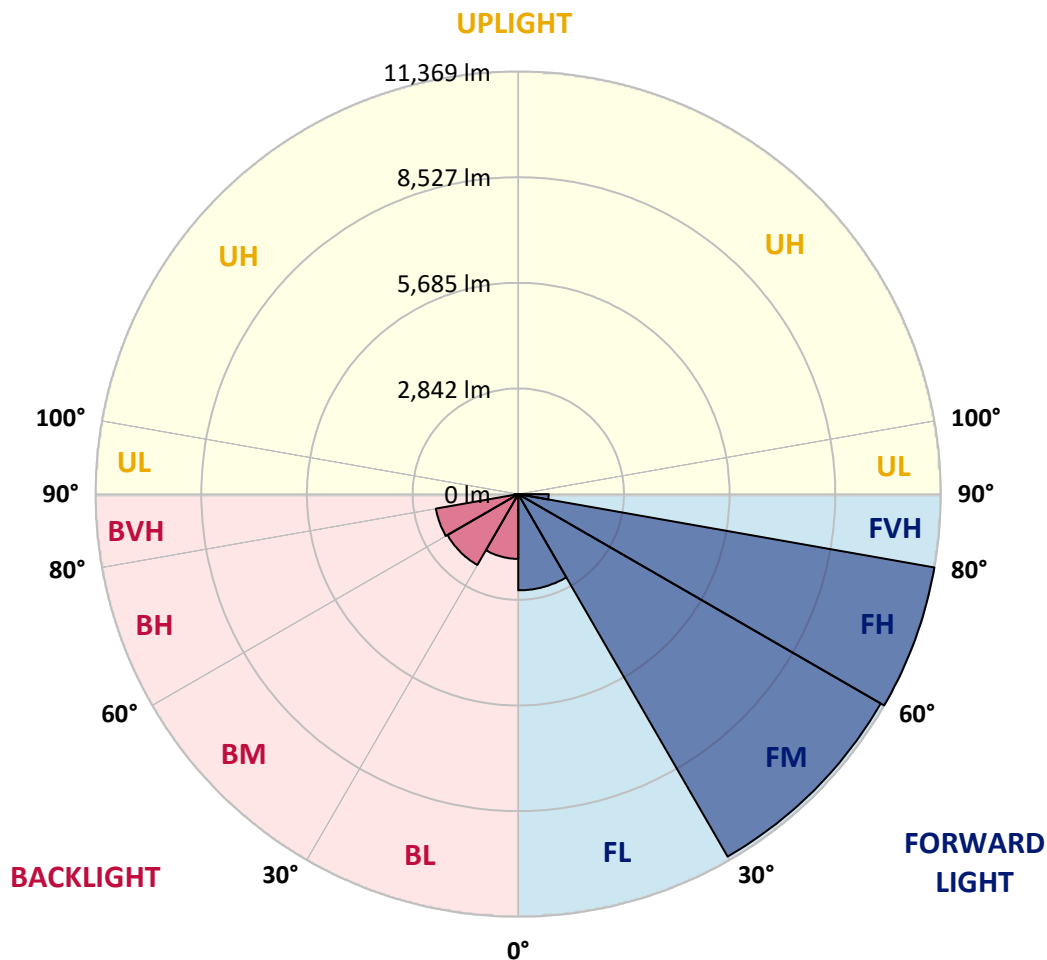
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2588.0	8.0			
FM (30°-60°)	11260.9	34.8			
FH (60°-80°)	11369.3	35.2			G4/12000
FVH (80°-90°)	817.6	2.5			G5
BL (0°-30°)	1741.4	5.4	B3/2500		
BM (30°-60°)	2199.7	6.8	B2/2500		
BH (60°-80°)	2249.4	7.0	B3/2500		G3/2500
BVH (80°-90°)	106.6	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°	7485.0	7485.0	7485.0	7485.0	7485.0	7485.0	7485.0	7485.0	7485.0	7485.0	7485.0
2.5°	6969.5	7048.3	7076.9	7119.9	7230.8	7313.2	7363.3	7420.5	7488.6	7545.8	7581.6
5°	6482.7	6525.6	6593.7	6640.2	6779.8	7001.7	7152.1	7395.5	7388.3	7477.8	7613.8
7.5°	6010.2	6053.1	6085.3	6178.4	6378.9	6579.3	6855.0	7248.7	7220.1	7427.7	7638.9
10°	5716.6	5684.4	5695.2	5852.7	6010.2	6235.7	6582.9	6983.8	7087.6	7409.8	7710.5
12.5°	5441.0	5405.2	5491.1	5591.4	5784.7	5988.7	6403.9	6765.5	6923.0	7345.4	7742.7
15°	5269.2	5244.1	5351.5	5394.5	5623.6	5867.0	6160.5	6600.8	6772.6	7266.6	7692.6
17.5°	5172.5	5194.0	5233.4	5326.5	5473.2	5680.8	6003.0	6489.8	6565.0	7170.0	7681.9
20°	5190.4	5215.5	5219.1	5258.5	5358.7	5519.8	5849.1	6371.7	6421.8	7152.1	7710.5
22.5°	5333.6	5297.8	5312.1	5287.1	5315.7	5441.0	5731.0	6214.2	6407.5	7001.7	7649.6
25°	5548.4	5498.3	5491.1	5405.2	5351.5	5387.3	5709.5	6174.8	6300.1	6955.2	7646.1
27.5°	5927.8	5852.7	5852.7	5723.8	5505.4	5448.2	5648.6	6110.4	6221.4	6912.2	7563.7
30°	6293.0	6293.0	6296.5	6114.0	5870.6	5587.8	5673.7	6085.3	6156.9	6783.4	7452.8
32.5°	6736.8	6726.1	6708.2	6618.7	6242.8	5820.5	5795.4	6053.1	6088.9	6740.4	7420.5
35°	7170.0	7141.3	7280.9	7202.2	6819.2	6275.1	5920.7	6067.4	6146.2	6676.0	7320.3
37.5°	7495.7	7513.6	7803.6	7853.7	7524.4	6790.5	6275.1	6210.6	6285.8	6769.1	7320.3
40°	7918.1	7989.7	8261.8	8430.0	8229.5	7470.7	6837.1	6450.5	6504.2	6976.7	7477.8
42.5°	8472.9	8533.8	8881.0	9099.4	9042.1	8336.9	7391.9	6951.6	6908.7	7323.9	7714.1
45°	9206.8	9217.5	9568.3	9869.0	9987.1	9242.6	8272.5	7585.2	7549.4	7921.7	8147.2
47.5°	10080.2	10069.5	10287.8	10610.0	10928.6	10323.6	9285.5	8548.1	8419.3	8777.2	8866.7
50°	10925.0	10878.5	10928.6	11340.2	11952.3	11676.7	10516.9	9725.8	9596.9	9793.8	9947.8
52.5°	11390.3	11447.6	11311.6	11855.7	13040.5	13276.8	12149.2	11132.6	11021.6	11118.3	11386.8
55°	11064.6	11182.7	11093.2	11608.7	13516.6	15227.7	14261.2	12761.3	12618.1	12582.3	13022.6
57.5°	9679.3	9894.1	9912.0	10728.1	13352.0	16738.3	17232.3	14683.6	14468.8	14103.7	14558.3
60°	7431.3	7646.1	7810.7	8777.2	11941.6	17640.3	20675.9	17418.4	16709.6	15764.6	16036.7
62.5°	5208.3	5355.1	5519.8	6114.0	9206.8	17110.6	23654.1	21270.1	19963.5	17515.1	17855.1
65°	3794.4	3908.9	4077.2	4428.0	5655.8	14157.4	25035.8	25844.8	24606.3	19741.6	19698.6
67.5°	2856.5	2928.1	3150.1	3712.1	3919.7	8745.0	23604.0	30677.3	29675.0	22215.1	21180.6
70°	2162.1	2222.9	2430.6	3200.2	3661.9	4689.3	18621.2	31754.8	32041.1	24989.3	22175.7
72.5°	1489.1	1557.1	1789.8	2666.8	3486.5	3719.2	11687.4	28848.1	29932.7	26131.2	21109.0
75°	912.8	959.3	1095.4	2022.5	3461.5	3636.9	6432.6	23639.8	24788.8	24144.5	18467.2
77.5°	644.3	640.8	665.8	1184.9	2999.7	3658.4	3966.2	17321.8	18438.6	17794.3	12532.2
80°	468.9	472.5	497.6	708.8	2036.8	3719.2	3125.0	11601.5	11934.4	9278.4	4943.4
82.5°	282.8	297.1	358.0	479.7	1224.2	3357.7	2888.7	6446.9	6031.7	2978.2	1360.3
85°	150.3	150.3	211.2	304.3	651.5	2505.7	2781.4	3067.7	2570.2	923.5	504.7
87.5°	35.8	35.8	60.9	121.7	261.3	1199.2	1897.2	1220.6	977.2	311.4	207.6
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°	7485.0	7485.0	7485.0	7485.0	7485.0	7485.0	7485.0	7485.0	7485.0	7485.0	7485.0
2.5°	7567.3	7524.4	7578.0	7470.7	7384.7	7388.3	7255.9	7248.7	7230.8	7137.8	7170.0
5°	7653.2	7617.4	7556.6	7438.4	7248.7	7059.0	6944.5	6797.7	6736.8	6704.6	6718.9
7.5°	7735.5	7671.1	7495.7	7331.1	7037.5	6679.6	6471.9	6275.1	6024.5	5995.9	5945.7
10°	7757.0	7621.0	7395.5	7044.7	6654.5	6257.2	5784.7	5419.5	5226.2	5075.9	5018.6
12.5°	7724.8	7667.5	7234.4	6783.4	6192.7	5569.9	5018.6	4503.2	4145.2	3959.1	3908.9
15°	7721.2	7621.0	7055.4	6386.0	5630.7	4818.2	4034.2	3415.0	3039.1	2885.2	2885.2
17.5°	7724.8	7485.0	6844.2	5985.1	4968.5	3869.6	3006.9	2498.6	2291.0	2269.5	2287.4
20°	7653.2	7384.7	6622.3	5512.6	4138.0	2906.6	2183.6	1975.9	1975.9	2004.6	2015.3
22.5°	7588.8	7234.4	6271.5	4929.1	3293.2	2104.8	1775.5	1714.6	1782.6	1832.8	1854.2
25°	7499.3	7109.1	5913.5	4324.2	2505.7	1696.7	1542.8	1557.1	1621.6	1711.1	1703.9
27.5°	7370.4	6890.8	5487.6	3622.6	1865.0	1464.1	1424.7	1431.8	1499.9	1539.2	1532.1
30°	7223.7	6668.8	5093.8	2924.5	1478.4	1342.4	1338.8	1356.7	1367.4	1388.9	1385.3
32.5°	7037.5	6375.3	4675.0	2273.1	1331.6	1274.3	1260.0	1249.3	1260.0	1256.4	1245.7
35°	6905.1	6217.8	4249.0	1732.5	1249.3	1213.5	1202.8	1184.9	1170.5	1149.1	1145.5
37.5°	6869.3	6060.3	3801.6	1413.9	1184.9	1167.0	1131.2	1098.9	1081.0	1070.3	1063.1
40°	6847.8	5956.5	3364.8	1242.1	1131.2	1113.3	1070.3	1027.3	1009.5	998.7	1002.3
42.5°	6923.0	5899.2	2921.0	1156.2	1084.6	1052.4	1005.9	955.8	952.2	945.0	955.8
45°	7187.9	5970.8	2509.3	1095.4	1038.1	984.4	923.5	898.5	894.9	887.7	894.9
47.5°	7789.2	6149.8	2158.5	1056.0	988.0	941.4	877.0	841.2	837.6	834.1	834.1
50°	8619.7	6701.0	1865.0	1009.5	955.8	891.3	830.5	791.1	783.9	769.6	769.6
52.5°	9922.7	7628.2	1689.6	984.4	898.5	844.8	780.4	737.4	719.5	705.2	705.2
55°	11390.3	8777.2	1657.4	941.4	837.6	787.5	730.2	687.3	669.4	651.5	644.3
57.5°	13062.0	10298.6	1886.5	912.8	794.7	730.2	665.8	626.4	612.1	594.2	587.1
60°	14619.1	11816.3	2598.8	869.8	755.3	676.5	612.1	572.7	554.8	536.9	536.9
62.5°	16419.7	13695.6	3805.1	869.8	719.5	619.3	554.8	526.2	515.5	497.6	494.0
65°	18549.6	15639.3	4685.7	923.5	708.8	569.2	501.1	472.5	461.8	451.0	447.5
67.5°	20171.1	16756.2	4030.6	1066.7	755.3	526.2	447.5	429.6	422.4	411.7	404.5
70°	20343.0	16076.1	2430.6	1152.6	801.8	483.2	400.9	383.0	383.0	372.3	365.1
72.5°	18800.1	14264.8	1635.9	1027.3	726.7	433.1	354.4	340.1	332.9	325.7	322.2
75°	15732.4	12099.1	1292.2	819.7	558.4	358.0	307.8	293.5	282.8	279.2	272.1
77.5°	10567.0	7864.4	955.8	640.8	411.7	289.9	257.7	243.4	232.7	229.1	218.4
80°	4059.3	2996.1	615.7	465.3	289.9	229.1	204.0	189.7	182.6	171.8	164.7
82.5°	1195.6	970.1	343.6	286.4	186.1	157.5	146.8	136.0	125.3	114.5	111.0
85°	494.0	443.9	211.2	150.3	114.5	93.1	85.9	75.2	64.4	57.3	50.1
87.5°	229.1	189.7	96.6	57.3	39.4	21.5	10.7	3.6	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)