

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: P480293

Luminaire Tested: **IFLD-L-SA8B-830-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480293
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-830-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

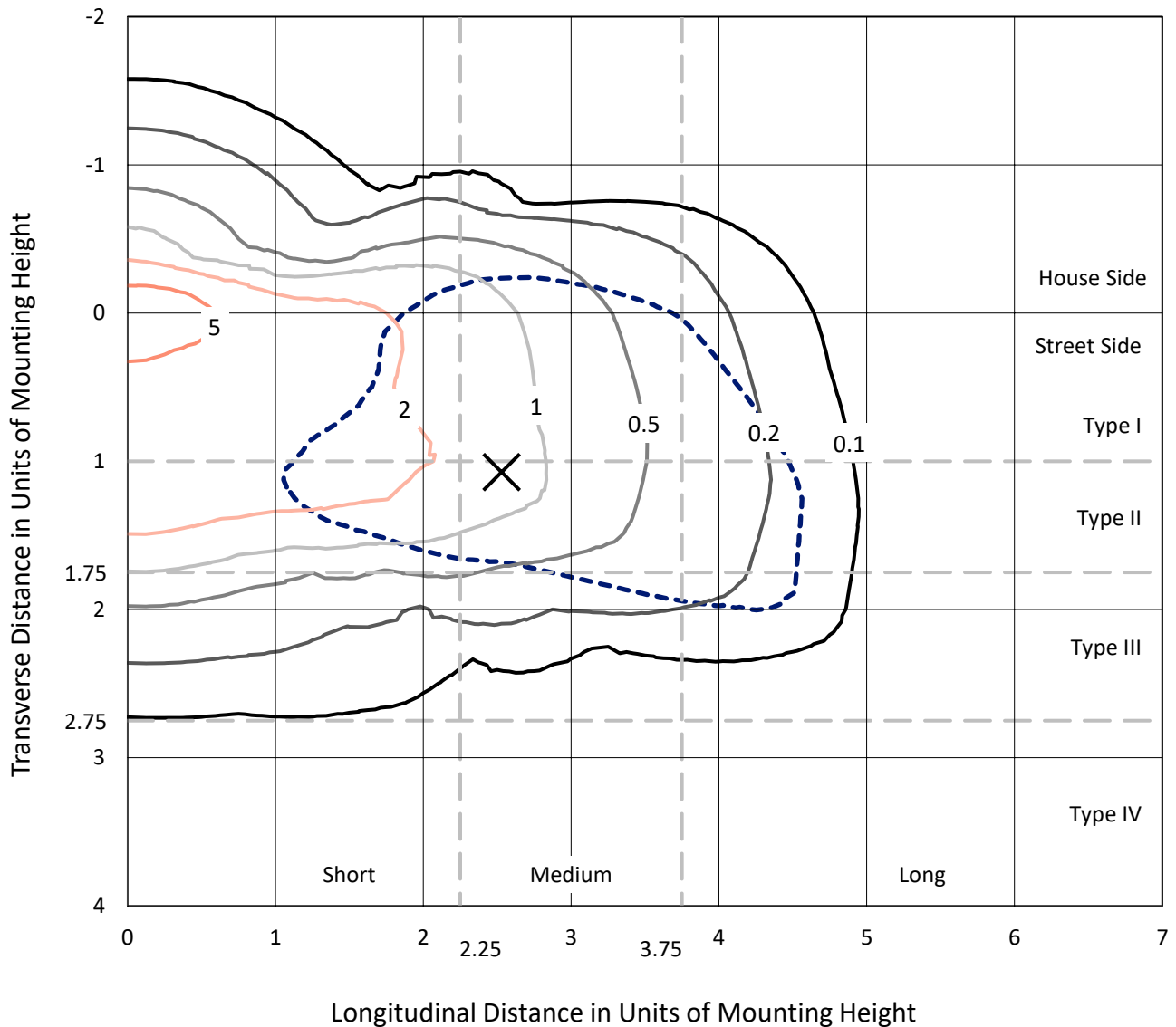
Lumens per Lamp: N/A
Luminaire Lumens: 32244 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

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

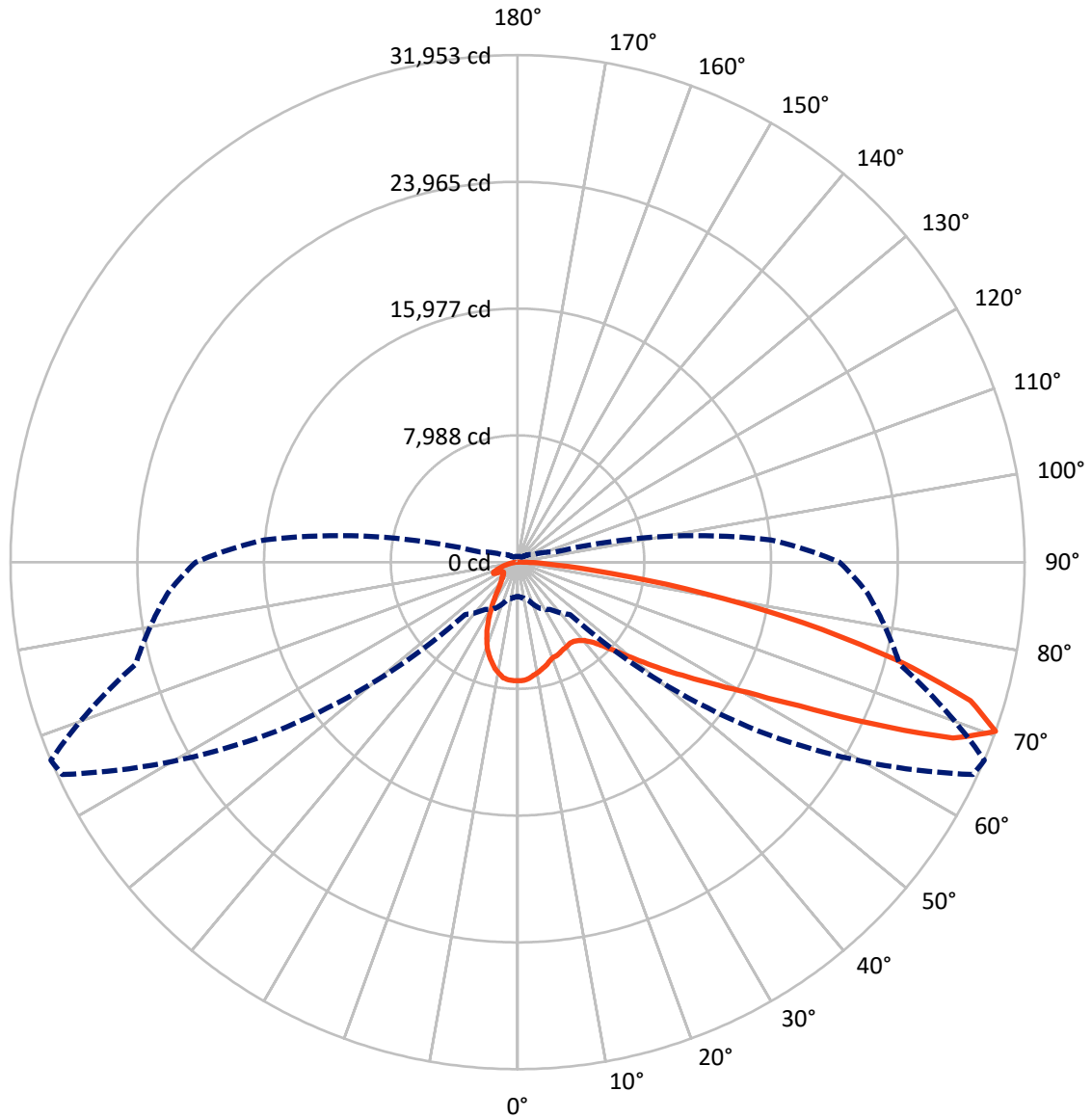
✕ Max cd
 - - - 1/2 Max cd



Based on 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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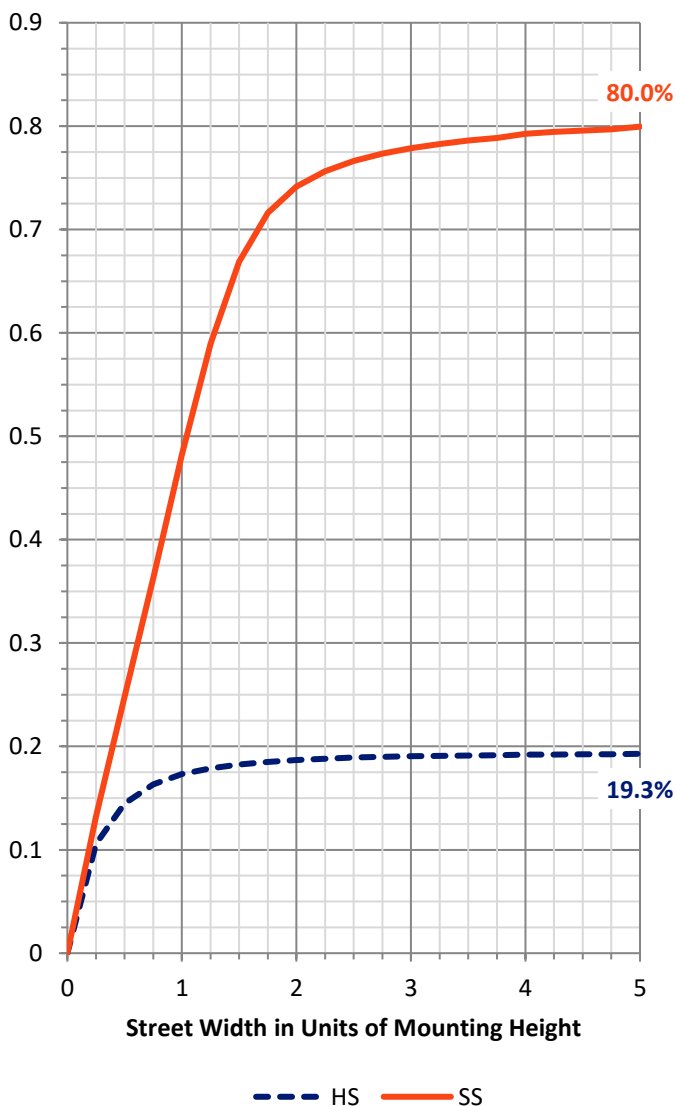
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6279.8	0.0	6279.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	25964.2	0.0	25964.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	32244.0	0.0	32244.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	651.3	2.0
10°-20°	1559.8	4.8
20°-30°	2106.4	6.5
30°-40°	2818.6	8.7
40°-50°	4144.6	12.9
50°-60°	6460.4	20.0
60°-70°	7958.2	24.7
70°-80°	5623.2	17.4
80°-90°	921.7	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°	32244.0	100.0
0°-180°	32244.0	100.0

Coefficient of Utilization

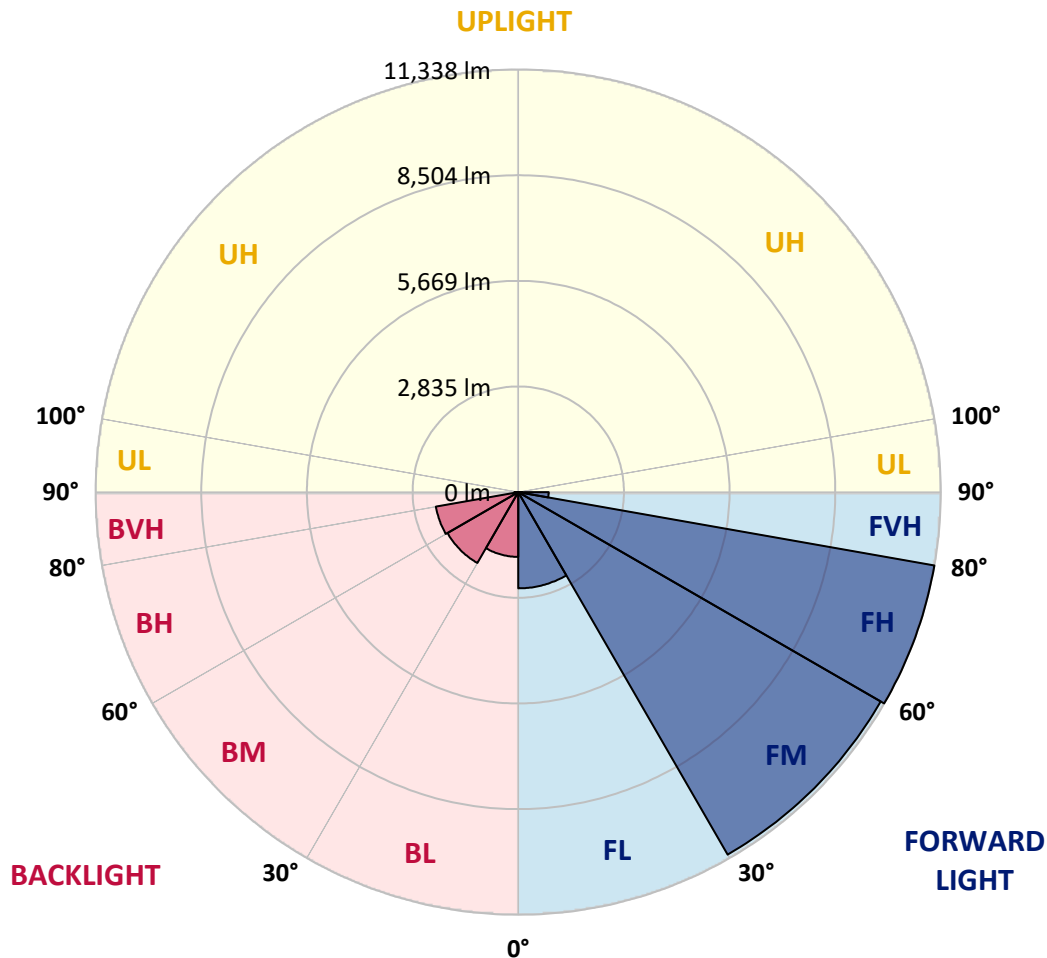


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2580.9	8.0			
FM (30°-60°)	11229.9	34.8			
FH (60°-80°)	11338.1	35.2			G4/12000
FVH (80°-90°)	815.3	2.5			G5
BL (0°-30°)	1736.6	5.4	B3/2500		
BM (30°-60°)	2193.7	6.8	B2/2500		
BH (60°-80°)	2243.2	7.0	B3/2500		G3/2500
BVH (80°-90°)	106.3	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°	7464.4	7464.4	7464.4	7464.4	7464.4	7464.4	7464.4	7464.4	7464.4	7464.4	7464.4
2.5°	6950.3	7028.9	7057.4	7100.3	7210.9	7293.0	7343.0	7400.1	7468.0	7525.1	7560.8
5°	6464.9	6507.7	6575.5	6621.9	6761.1	6982.5	7132.4	7375.1	7368.0	7457.3	7592.9
7.5°	5993.6	6036.5	6068.6	6161.4	6361.3	6561.2	6836.1	7228.8	7200.2	7407.3	7617.9
10°	5700.9	5668.8	5679.5	5836.6	5993.6	6218.5	6564.8	6964.6	7068.1	7389.4	7689.3
12.5°	5426.1	5390.4	5476.0	5576.0	5768.7	5972.2	6386.3	6746.9	6903.9	7325.2	7721.4
15°	5254.7	5229.7	5336.8	5379.6	5608.1	5850.9	6143.6	6582.7	6754.0	7246.6	7671.4
17.5°	5158.3	5179.7	5219.0	5311.8	5458.2	5665.2	5986.5	6472.0	6547.0	7150.3	7660.7
20°	5176.2	5201.2	5204.7	5244.0	5343.9	5504.6	5833.0	6354.2	6404.2	7132.4	7689.3
22.5°	5319.0	5283.3	5297.5	5272.6	5301.1	5426.1	5715.2	6197.1	6389.9	6982.5	7628.6
25°	5533.1	5483.2	5476.0	5390.4	5336.8	5372.5	5693.8	6157.9	6282.8	6936.1	7625.0
27.5°	5911.5	5836.6	5836.6	5708.1	5490.3	5433.2	5633.1	6093.6	6204.3	6893.2	7542.9
30°	6275.7	6275.7	6279.2	6097.2	5854.4	5572.4	5658.1	6068.6	6140.0	6764.7	7432.3
32.5°	6718.3	6707.6	6689.7	6600.5	6225.7	5804.4	5779.5	6036.5	6072.2	6721.9	7400.1
35°	7150.3	7121.7	7260.9	7182.4	6800.4	6257.8	5904.4	6050.8	6129.3	6657.6	7300.2
37.5°	7475.1	7492.9	7782.1	7832.1	7503.7	6771.9	6257.8	6193.6	6268.5	6750.4	7300.2
40°	7896.3	7967.7	8239.0	8406.8	8206.9	7450.1	6818.3	6432.7	6486.3	6957.5	7457.3
42.5°	8449.6	8510.3	8856.6	9074.4	9017.2	8314.0	7371.6	6932.5	6889.7	7303.8	7692.9
45°	9181.4	9192.2	9542.0	9841.9	9959.7	9217.1	8249.7	7564.3	7528.6	7899.9	8124.8
47.5°	10052.5	10041.8	10259.5	10580.8	10898.5	10295.2	9260.0	8524.6	8396.1	8753.1	8842.3
50°	10894.9	10848.5	10898.5	11309.0	11919.5	11644.6	10488.0	9699.1	9570.6	9766.9	9920.4
52.5°	11359.0	11416.1	11280.5	11823.1	13004.7	13240.3	12115.8	11102.0	10991.3	11087.7	11355.4
55°	11034.2	11152.0	11062.7	11576.8	13479.5	15185.8	14222.0	12726.2	12583.4	12547.7	12986.8
57.5°	9652.7	9866.8	9884.7	10698.6	13315.2	16692.2	17184.9	14643.2	14429.0	14064.9	14518.3
60°	7410.8	7625.0	7789.2	8753.1	11908.8	17591.8	20619.0	17370.5	16663.7	15721.3	15992.6
62.5°	5194.0	5340.4	5504.6	6097.2	9181.4	17063.5	23589.0	21211.6	19908.6	17466.9	17806.0
65°	3784.0	3898.2	4066.0	4415.8	5640.2	14118.4	24967.0	25773.7	24538.6	19687.3	19644.4
67.5°	2848.7	2920.1	3141.4	3701.9	3908.9	8720.9	23539.1	30592.9	29593.4	22154.0	21122.3
70°	2156.1	2216.8	2423.9	3191.4	3651.9	4676.4	18569.9	31667.4	31953.0	24920.6	22114.7
72.5°	1485.0	1552.9	1784.9	2659.5	3477.0	3709.0	11655.3	28768.8	29850.4	26059.3	21050.9
75°	910.3	956.7	1092.3	2016.9	3452.0	3626.9	6414.9	23574.8	24720.7	24078.1	18416.4
77.5°	642.6	639.0	664.0	1181.6	2991.5	3648.3	3955.3	17274.1	18387.9	17745.3	12497.8
80°	467.6	471.2	496.2	706.8	2031.2	3709.0	3116.4	11569.6	11901.6	9252.8	4929.9
82.5°	282.0	296.3	357.0	478.3	1220.9	3348.4	2880.8	6429.2	6015.1	2970.0	1356.5
85°	149.9	149.9	210.6	303.4	649.7	2498.8	2773.7	3059.3	2563.1	921.0	503.3
87.5°	35.7	35.7	60.7	121.4	260.6	1195.9	1892.0	1217.3	974.5	310.6	207.0
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°	7464.4	7464.4	7464.4	7464.4	7464.4	7464.4	7464.4	7464.4	7464.4	7464.4	7464.4
2.5°	7546.5	7503.7	7557.2	7450.1	7364.4	7368.0	7235.9	7228.8	7210.9	7118.1	7150.3
5°	7632.2	7596.5	7535.8	7418.0	7228.8	7039.6	6925.4	6779.0	6718.3	6686.2	6700.5
7.5°	7714.3	7650.0	7475.1	7310.9	7018.2	6661.2	6454.1	6257.8	6007.9	5979.4	5929.4
10°	7735.7	7600.0	7375.1	7025.3	6636.2	6240.0	5768.7	5404.6	5211.9	5061.9	5004.8
12.5°	7703.6	7646.4	7214.5	6764.7	6175.7	5554.6	5004.8	4490.8	4133.8	3948.2	3898.2
15°	7700.0	7600.0	7036.0	6368.5	5615.2	4804.9	4023.1	3405.6	3030.7	2877.2	2877.2
17.5°	7703.6	7464.4	6825.4	5968.7	4954.8	3858.9	2998.6	2491.7	2284.7	2263.2	2281.1
20°	7632.2	7364.4	6604.1	5497.4	4126.7	2898.7	2177.6	1970.5	1970.5	1999.1	2009.8
22.5°	7567.9	7214.5	6254.2	4915.6	3284.2	2099.0	1770.6	1709.9	1777.7	1827.7	1849.1
25°	7478.7	7089.6	5897.3	4312.3	2498.8	1692.1	1538.6	1552.9	1617.1	1706.4	1699.2
27.5°	7350.2	6871.8	5472.5	3612.6	1859.9	1460.0	1420.8	1427.9	1495.7	1535.0	1527.9
30°	7203.8	6650.5	5079.8	2916.5	1474.3	1338.7	1335.1	1352.9	1363.7	1385.1	1381.5
32.5°	7018.2	6357.8	4662.1	2266.8	1328.0	1270.8	1256.6	1245.8	1256.6	1253.0	1242.3
35°	6886.1	6200.7	4237.3	1727.8	1245.8	1210.2	1199.4	1181.6	1167.3	1145.9	1142.3
37.5°	6850.4	6043.6	3791.1	1410.1	1181.6	1163.7	1128.0	1095.9	1078.1	1067.4	1060.2
40°	6829.0	5940.1	3355.6	1238.7	1128.0	1110.2	1067.4	1024.5	1006.7	996.0	999.5
42.5°	6903.9	5883.0	2912.9	1153.0	1081.6	1049.5	1003.1	953.1	949.6	942.4	953.1
45°	7168.1	5954.4	2502.4	1092.3	1035.2	981.7	921.0	896.0	892.4	885.3	892.4
47.5°	7767.8	6132.9	2152.6	1053.1	985.3	938.8	874.6	838.9	835.3	831.8	831.8
50°	8596.0	6682.6	1859.9	1006.7	953.1	888.9	828.2	788.9	781.8	767.5	767.5
52.5°	9895.4	7607.2	1684.9	981.7	896.0	842.5	778.2	735.4	717.5	703.2	703.2
55°	11359.0	8753.1	1652.8	938.8	835.3	785.3	728.2	685.4	667.5	649.7	642.6
57.5°	13026.1	10270.2	1881.3	910.3	792.5	728.2	664.0	624.7	610.4	592.6	585.4
60°	14578.9	11783.8	2591.7	867.5	753.2	674.7	610.4	571.2	553.3	535.5	535.5
62.5°	16374.5	13657.9	3794.7	867.5	717.5	617.6	553.3	524.8	514.0	496.2	492.6
65°	18498.6	15596.3	4672.8	921.0	706.8	567.6	499.8	471.2	460.5	449.8	446.2
67.5°	20115.7	16710.1	4019.6	1063.8	753.2	524.8	446.2	428.4	421.2	410.5	403.4
70°	20287.0	16031.8	2423.9	1149.5	799.6	481.9	399.8	382.0	382.0	371.3	364.1
72.5°	18748.4	14225.5	1631.4	1024.5	724.7	431.9	353.4	339.1	332.0	324.8	321.3
75°	15689.1	12065.8	1288.7	817.5	556.9	357.0	307.0	292.7	282.0	278.4	271.3
77.5°	10538.0	7842.8	953.1	639.0	410.5	289.2	257.0	242.7	232.0	228.5	217.8
80°	4048.1	2987.9	614.0	464.1	289.2	228.5	203.5	189.2	182.1	171.3	164.2
82.5°	1192.3	967.4	342.7	285.6	185.6	157.1	146.4	135.7	124.9	114.2	110.7
85°	492.6	442.7	210.6	149.9	114.2	92.8	85.7	75.0	64.3	57.1	50.0
87.5°	228.5	189.2	96.4	57.1	39.3	21.4	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)