

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: P480173

Luminaire Tested: **IFLD-L-SA7D-750-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480173
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-750-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

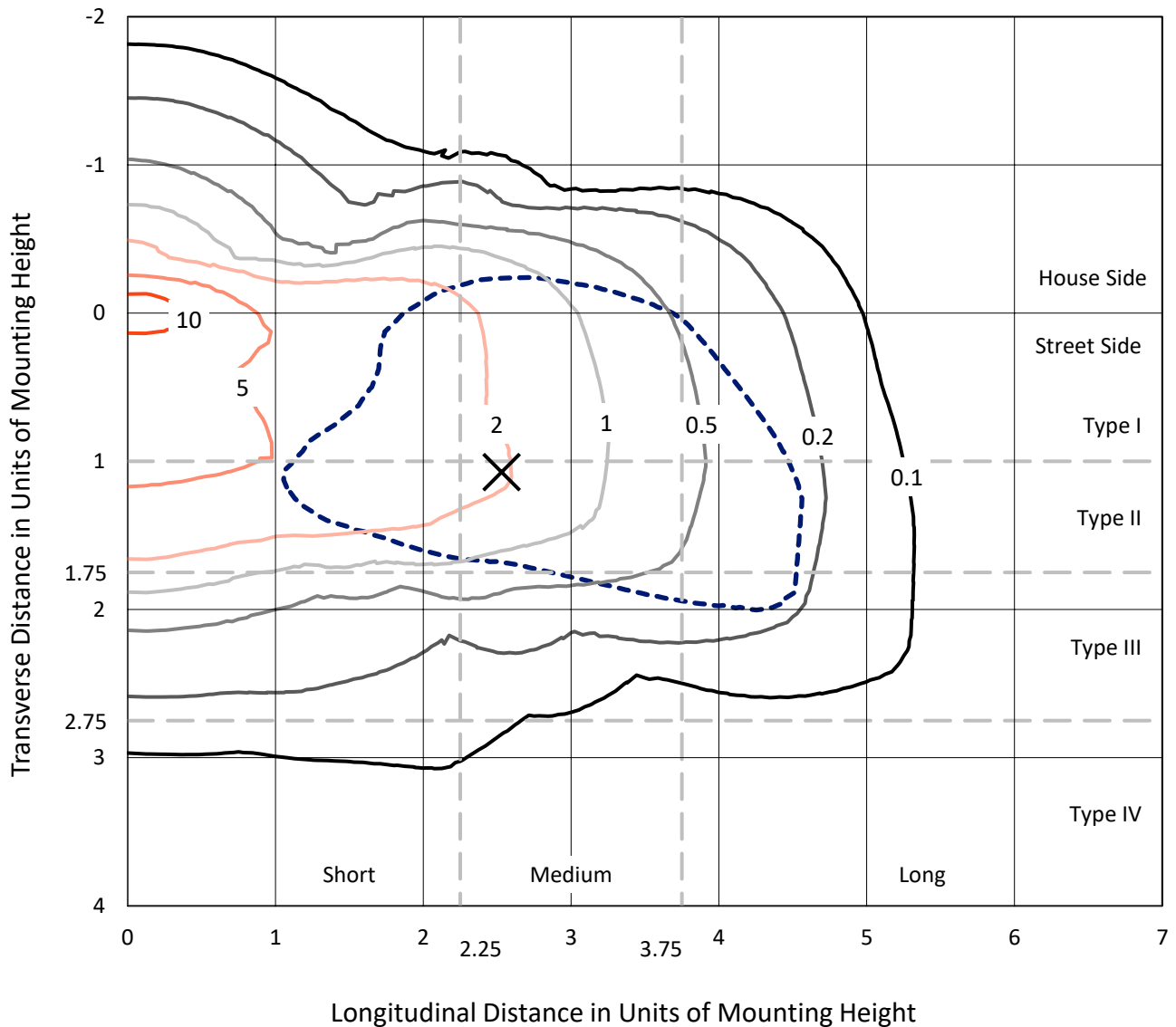
Lumens per Lamp: N/A
Luminaire Lumens: 49749.3 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

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

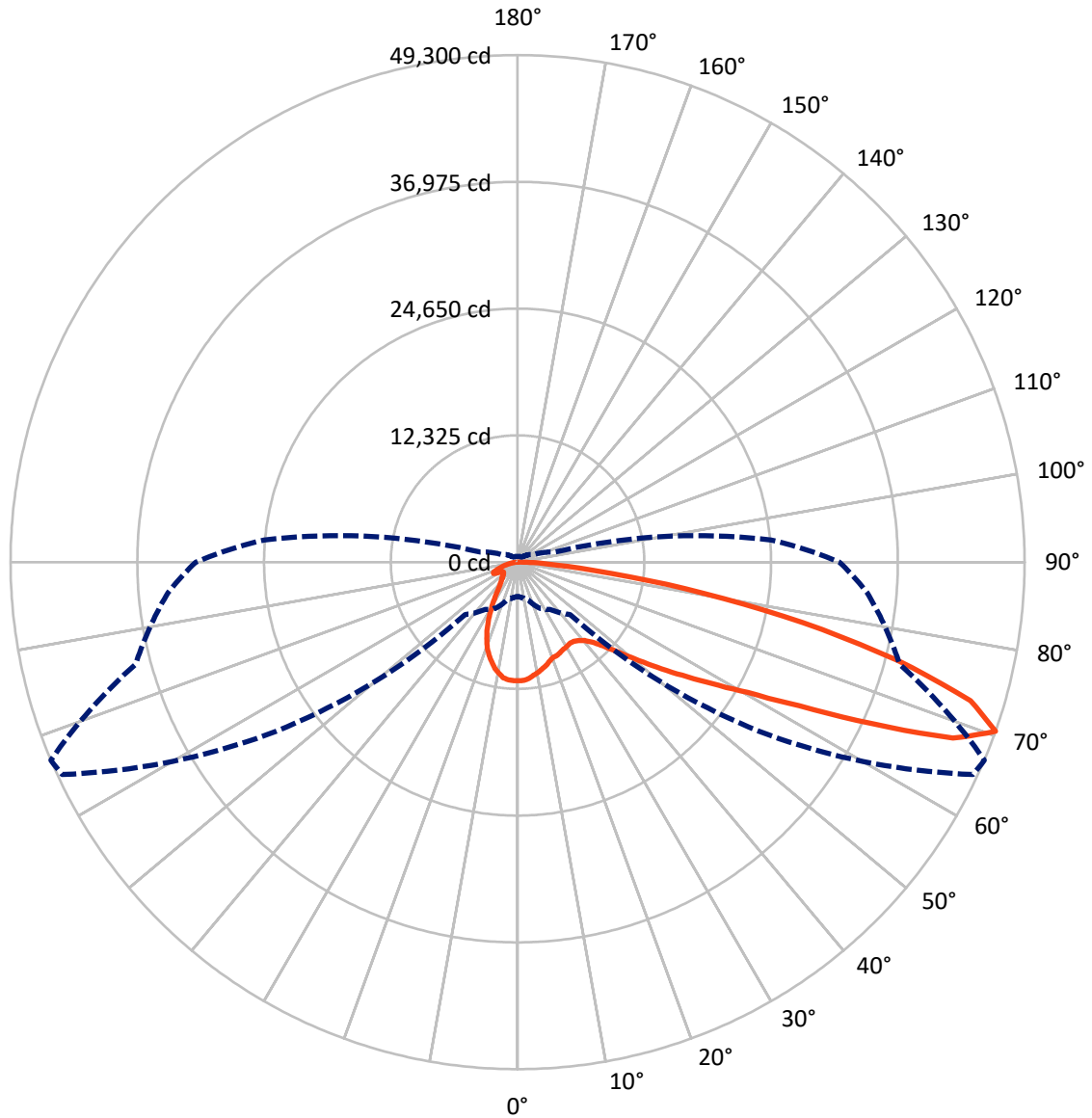
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.9 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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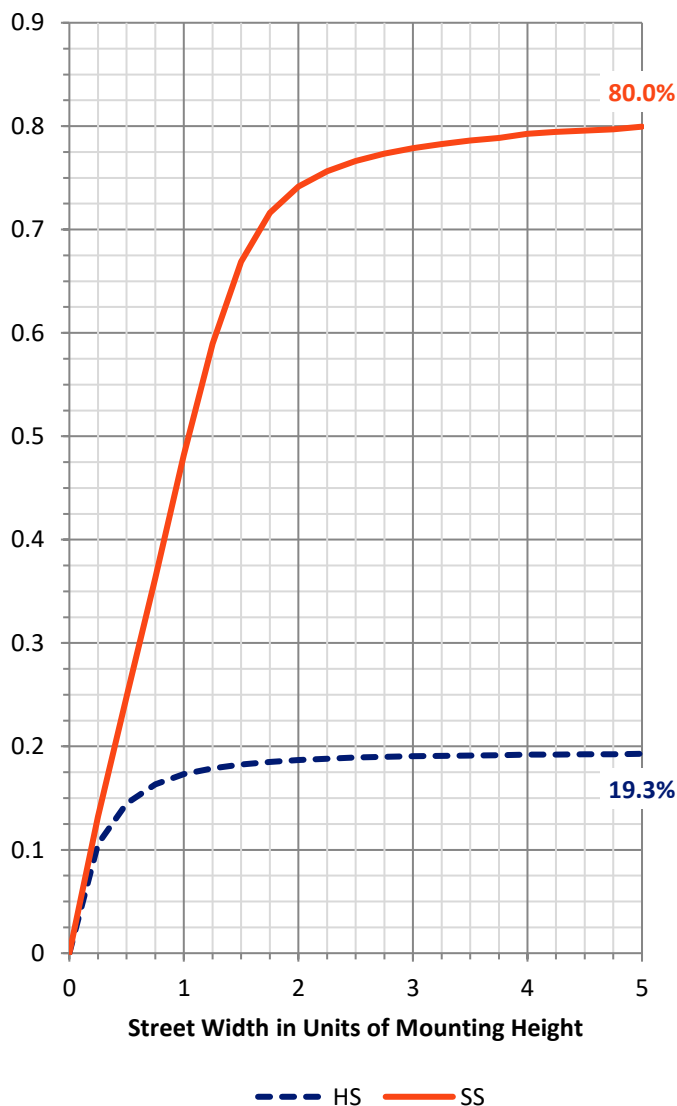
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9689.1	0.0	9689.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	40060.2	0.0	40060.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	49749.3	0.0	49749.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1004.9	2.0
10°-20°	2406.6	4.8
20°-30°	3250.0	6.5
30°-40°	4348.7	8.7
40°-50°	6394.7	12.9
50°-60°	9967.8	20.0
60°-70°	12278.6	24.7
70°-80°	8676.0	17.4
80°-90°	1422.0	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°	49749.3	100.0
0°-180°	49749.3	100.0

Coefficient of Utilization

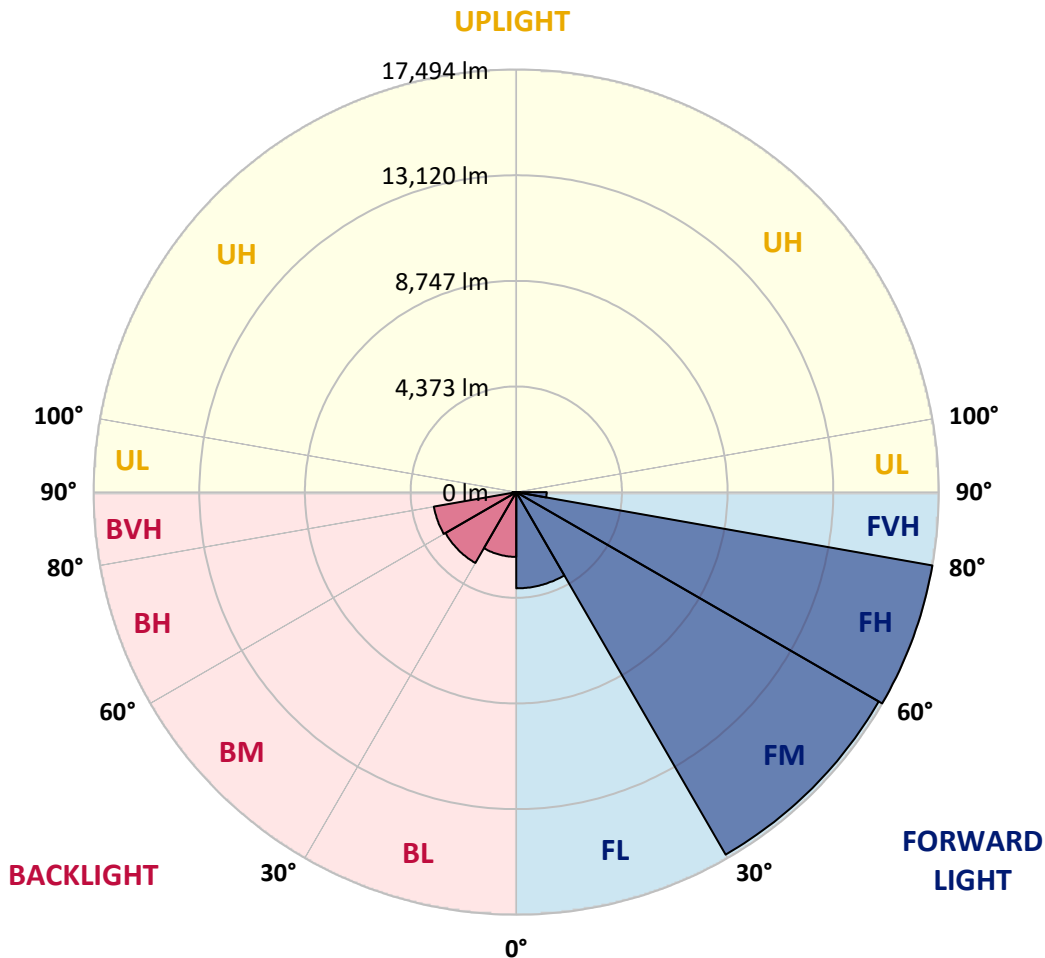


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3982.1	8.0			
FM (30°-60°)	17326.6	34.8			
FH (60°-80°)	17493.5	35.2			G5
FVH (80°-90°)	1258.0	2.5			G5
BL (0°-30°)	2679.4	5.4	B4/5000		
BM (30°-60°)	3384.6	6.8	B3/5000		
BH (60°-80°)	3461.1	7.0	B4/5000		G4/5000
BVH (80°-90°)	164.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	11516.8	11516.8	11516.8	11516.8	11516.8	11516.8	11516.8	11516.8	11516.8	11516.8	11516.8
2.5°	10723.7	10844.9	10888.9	10955.0	11125.8	11252.4	11329.5	11417.7	11522.3	11610.4	11665.5
5°	9974.6	10040.7	10145.4	10217.0	10431.8	10773.3	11004.6	11379.1	11368.1	11505.8	11715.1
7.5°	9247.6	9313.7	9363.3	9506.5	9814.9	10123.3	10547.4	11153.3	11109.2	11428.7	11753.6
10°	8796.0	8746.4	8762.9	9005.3	9247.6	9594.6	10128.8	10745.7	10905.4	11401.1	11863.8
12.5°	8371.9	8316.8	8449.0	8603.2	8900.6	9214.5	9853.5	10409.7	10652.1	11302.0	11913.4
15°	8107.5	8068.9	8234.2	8300.3	8652.8	9027.3	9478.9	10156.4	10420.8	11180.8	11836.3
17.5°	7958.8	7991.8	8052.4	8195.6	8421.4	8740.9	9236.6	9985.6	10101.3	11032.1	11819.7
20°	7986.3	8024.9	8030.4	8091.0	8245.2	8493.0	8999.7	9803.9	9881.0	11004.6	11863.8
22.5°	8206.6	8151.5	8173.6	8135.0	8179.1	8371.9	8818.0	9561.5	9859.0	10773.3	11770.2
25°	8537.1	8460.0	8449.0	8316.8	8234.2	8289.2	8784.9	9501.0	9693.7	10701.7	11764.7
27.5°	9120.9	9005.3	9005.3	8807.0	8471.0	8382.9	8691.3	9401.8	9572.6	10635.6	11638.0
30°	9682.7	9682.7	9688.2	9407.3	9032.8	8597.7	8729.9	9363.3	9473.4	10437.3	11467.2
32.5°	10365.7	10349.2	10321.6	10183.9	9605.6	8955.7	8917.1	9313.7	9368.8	10371.2	11417.7
35°	11032.1	10988.1	11202.9	11081.7	10492.4	9655.2	9109.9	9335.7	9456.9	10272.0	11263.4
37.5°	11533.3	11560.9	12007.0	12084.1	11577.4	10448.3	9655.2	9556.0	9671.7	10415.2	11263.4
40°	12183.3	12293.4	12712.0	12970.9	12662.4	11494.8	10519.9	9925.1	10007.7	10734.7	11505.8
42.5°	13037.0	13130.6	13664.8	14000.8	13912.7	12827.7	11373.6	10696.1	10630.1	11269.0	11869.3
45°	14166.1	14182.6	14722.3	15185.0	15366.8	14221.1	12728.5	11671.0	11615.9	12188.8	12535.8
47.5°	15510.0	15493.4	15829.4	16325.1	16815.3	15884.5	14287.2	13152.6	12954.3	13505.1	13642.8
50°	16809.8	16738.2	16815.3	17448.7	18390.5	17966.4	16181.9	14964.7	14766.4	15069.3	15306.2
52.5°	17525.8	17613.9	17404.6	18241.8	20064.9	20428.4	18693.5	17129.3	16958.5	17107.2	17520.3
55°	17024.6	17206.4	17068.7	17861.8	20797.4	23430.2	21943.1	19635.3	19415.0	19359.9	20037.4
57.5°	14893.1	15223.6	15251.1	16506.9	20544.1	25754.5	26514.5	22593.0	22262.5	21700.7	22400.2
60°	11434.2	11764.7	12018.0	13505.1	18374.0	27142.4	31813.0	26800.9	25710.4	24256.3	24674.9
62.5°	8013.8	8239.7	8493.0	9407.3	14166.1	26327.3	36395.5	32727.3	30717.0	26949.7	27472.9
65°	5838.3	6014.5	6273.4	6813.1	8702.3	21783.3	38521.5	39766.3	37860.6	30375.5	30309.4
67.5°	4395.2	4505.4	4846.9	5711.6	6031.0	13455.6	36318.4	47201.8	45659.7	34181.4	32589.6
70°	3326.7	3420.3	3739.8	4924.0	5634.5	7215.2	28651.6	48859.7	49300.3	38449.9	34120.8
72.5°	2291.2	2395.9	2753.9	4103.3	5364.6	5722.6	17983.0	44387.4	46056.2	40206.9	32479.5
75°	1404.5	1476.1	1685.4	3111.9	5326.0	5595.9	9897.5	36373.5	38141.5	37150.1	28414.7
77.5°	991.4	985.9	1024.5	1823.1	4615.5	5629.0	6102.6	26652.2	28370.7	27379.3	19282.8
80°	721.5	727.0	765.6	1090.5	3133.9	5722.6	4808.3	17850.8	18363.0	14276.2	7606.3
82.5°	435.1	457.1	550.8	738.0	1883.7	5166.3	4444.8	9919.5	9280.6	4582.5	2093.0
85°	231.3	231.3	325.0	468.2	1002.4	3855.5	4279.6	4720.2	3954.6	1421.0	776.6
87.5°	55.1	55.1	93.6	187.3	402.1	1845.1	2919.1	1878.2	1503.6	479.2	319.5
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°	11516.8	11516.8	11516.8	11516.8	11516.8	11516.8	11516.8	11516.8	11516.8	11516.8	11516.8
2.5°	11643.5	11577.4	11660.0	11494.8	11362.6	11368.1	11164.3	11153.3	11125.8	10982.6	11032.1
5°	11775.7	11720.6	11627.0	11445.2	11153.3	10861.4	10685.1	10459.3	10365.7	10316.1	10338.1
7.5°	11902.4	11803.2	11533.3	11280.0	10828.3	10277.6	9958.1	9655.2	9269.6	9225.6	9148.5
10°	11935.4	11726.1	11379.1	10839.3	10239.0	9627.6	8900.6	8338.8	8041.4	7810.1	7721.9
12.5°	11885.8	11797.7	11131.3	10437.3	9528.5	8570.1	7721.9	6928.8	6378.0	6091.6	6014.5
15°	11880.3	11726.1	10855.9	9825.9	8663.8	7413.5	6207.3	5254.4	4676.1	4439.3	4439.3
17.5°	11885.8	11516.8	10530.9	9209.0	7644.8	5953.9	4626.6	3844.4	3525.0	3491.9	3519.5
20°	11775.7	11362.6	10189.4	8482.0	6367.0	4472.3	3359.8	3040.3	3040.3	3084.4	3100.9
22.5°	11676.5	11131.3	9649.7	7584.2	5067.2	3238.6	2731.9	2638.2	2742.9	2820.0	2853.0
25°	11538.8	10938.5	9098.9	6653.4	3855.5	2610.7	2373.9	2395.9	2495.0	2632.7	2621.7
27.5°	11340.6	10602.5	8443.5	5573.9	2869.6	2252.7	2192.1	2203.1	2307.8	2368.4	2357.3
30°	11114.7	10261.0	7837.6	4499.9	2274.7	2065.4	2059.9	2087.5	2104.0	2137.0	2131.5
32.5°	10828.3	9809.4	7193.2	3497.5	2048.9	1960.8	1938.7	1922.2	1938.7	1933.2	1916.7
35°	10624.5	9567.0	6537.8	2665.8	1922.2	1867.1	1850.6	1823.1	1801.1	1768.0	1762.5
37.5°	10569.5	9324.7	5849.3	2175.6	1823.1	1795.5	1740.5	1690.9	1663.4	1646.8	1635.8
40°	10536.4	9165.0	5177.3	1911.2	1740.5	1712.9	1646.8	1580.7	1553.2	1536.7	1542.2
42.5°	10652.1	9076.9	4494.4	1779.0	1668.9	1619.3	1547.7	1470.6	1465.1	1454.1	1470.6
45°	11059.7	9187.0	3861.0	1685.4	1597.3	1514.6	1421.0	1382.5	1376.9	1365.9	1376.9
47.5°	11985.0	9462.4	3321.2	1624.8	1520.2	1448.6	1349.4	1294.3	1288.8	1283.3	1283.3
50°	13262.8	10310.6	2869.6	1553.2	1470.6	1371.4	1277.8	1217.2	1206.2	1184.2	1184.2
52.5°	15267.6	11737.1	2599.7	1514.6	1382.5	1299.8	1200.7	1134.6	1107.1	1085.0	1085.0
55°	17525.8	13505.1	2550.1	1448.6	1288.8	1211.7	1123.6	1057.5	1030.0	1002.4	991.4
57.5°	20098.0	15845.9	2902.6	1404.5	1222.7	1123.6	1024.5	963.9	941.8	914.3	903.3
60°	22493.9	18181.2	3998.7	1338.4	1162.1	1041.0	941.8	881.2	853.7	826.2	826.2
62.5°	25264.3	21072.8	5854.8	1338.4	1107.1	952.8	853.7	809.6	793.1	765.6	760.1
65°	28541.4	24063.6	7209.7	1421.0	1090.5	875.7	771.1	727.0	710.5	694.0	688.5
67.5°	31036.4	25782.0	6201.8	1641.3	1162.1	809.6	688.5	660.9	649.9	633.4	622.4
70°	31300.8	24735.5	3739.8	1773.5	1233.7	743.6	616.9	589.3	589.3	572.8	561.8
72.5°	28927.0	21948.6	2517.1	1580.7	1118.1	666.4	545.3	523.2	512.2	501.2	495.7
75°	24206.8	18616.4	1988.3	1261.3	859.2	550.8	473.7	451.6	435.1	429.6	418.6
77.5°	16259.0	12100.6	1470.6	985.9	633.4	446.1	396.6	374.5	358.0	352.5	336.0
80°	6245.8	4610.0	947.3	716.0	446.1	352.5	313.9	291.9	280.9	264.4	253.4
82.5°	1839.6	1492.6	528.7	440.6	286.4	242.3	225.8	209.3	192.8	176.2	170.7
85°	760.1	683.0	325.0	231.3	176.2	143.2	132.2	115.7	99.1	88.1	77.1
87.5°	352.5	291.9	148.7	88.1	60.6	33.0	16.5	5.5	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)