

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: P480553

Luminaire Tested: **IFLD-S-SA6D-750-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480553
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-750-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

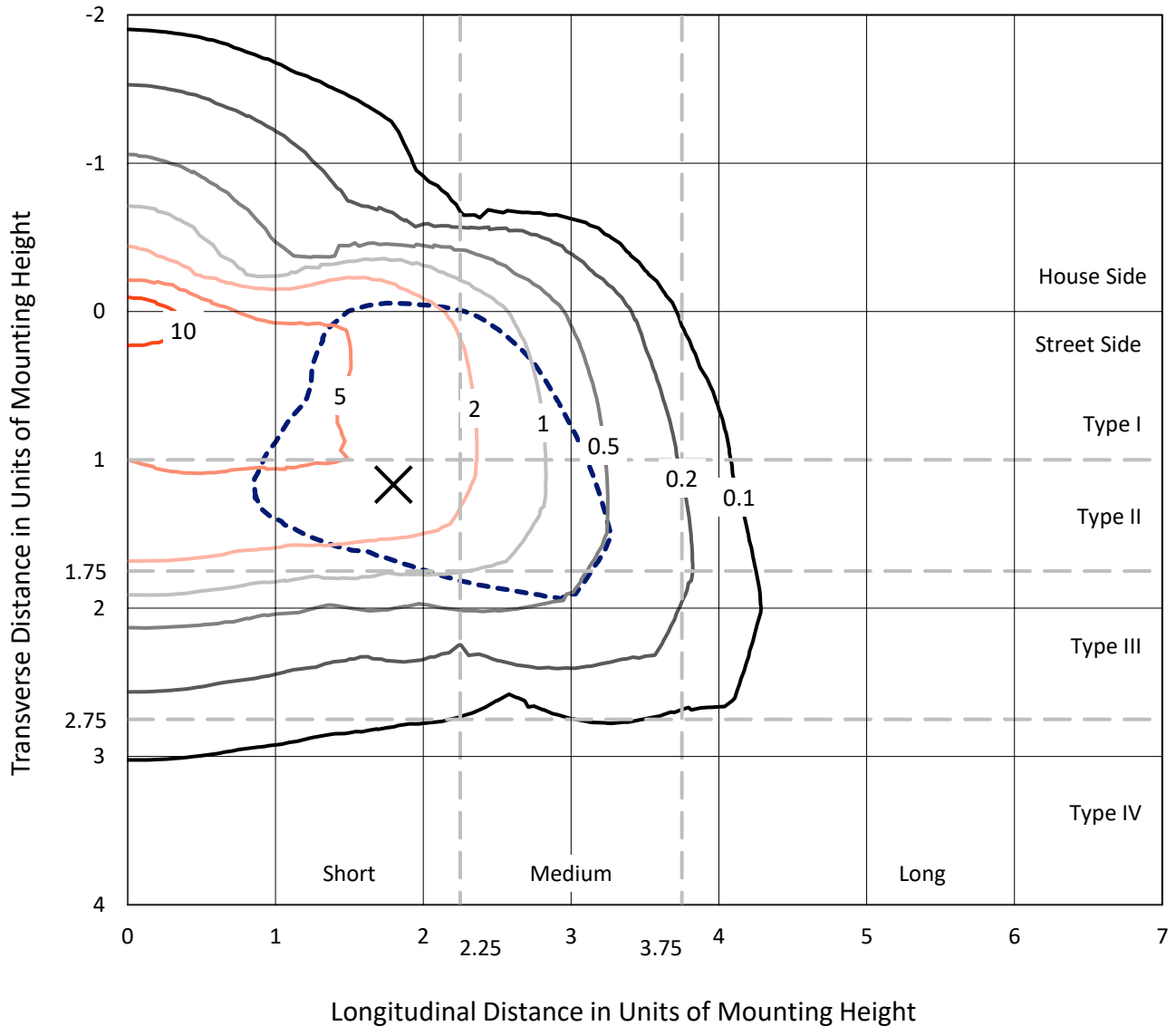
Lumens per Lamp: N/A
Luminaire Lumens: 46148.1 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2
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

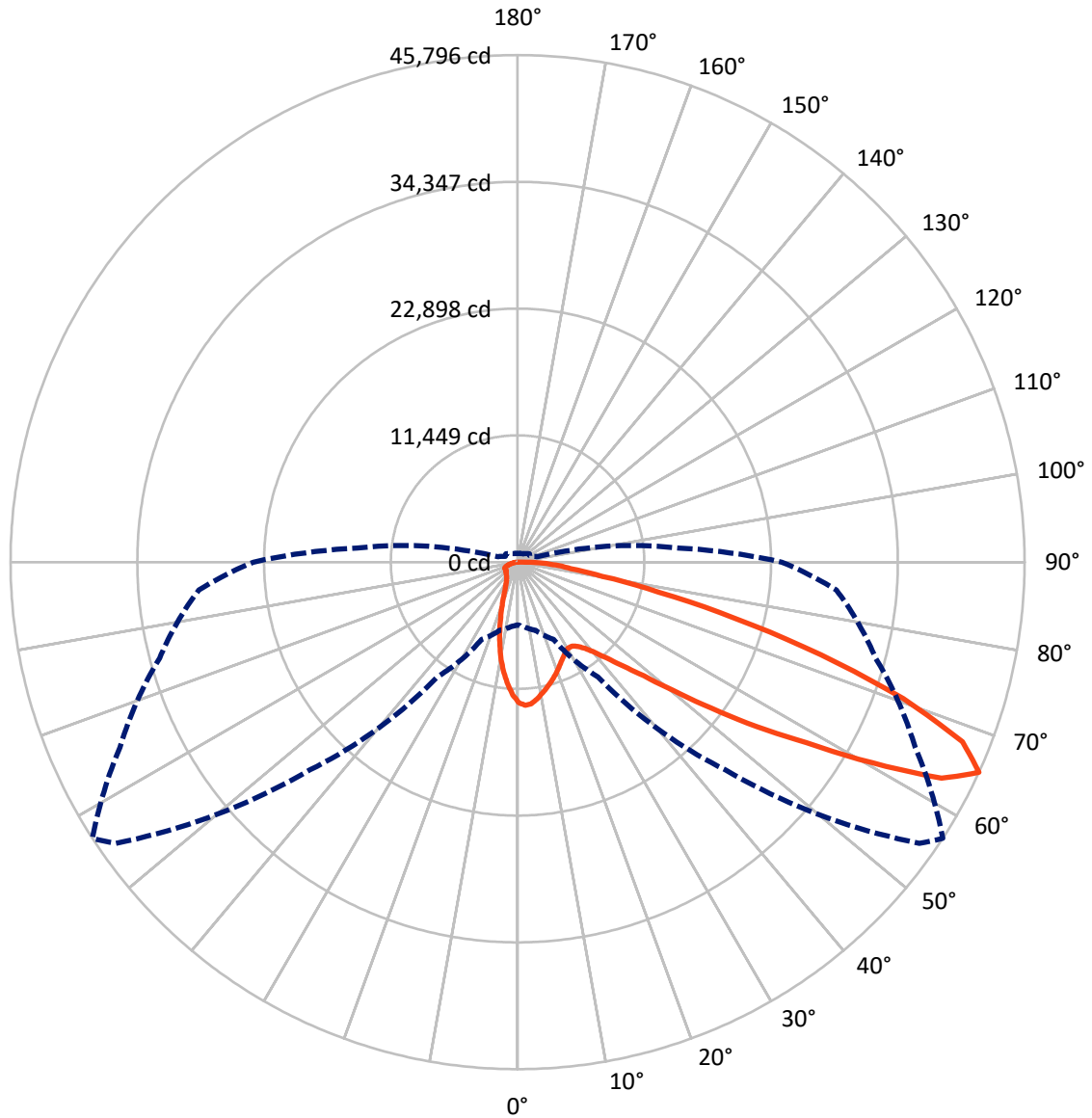
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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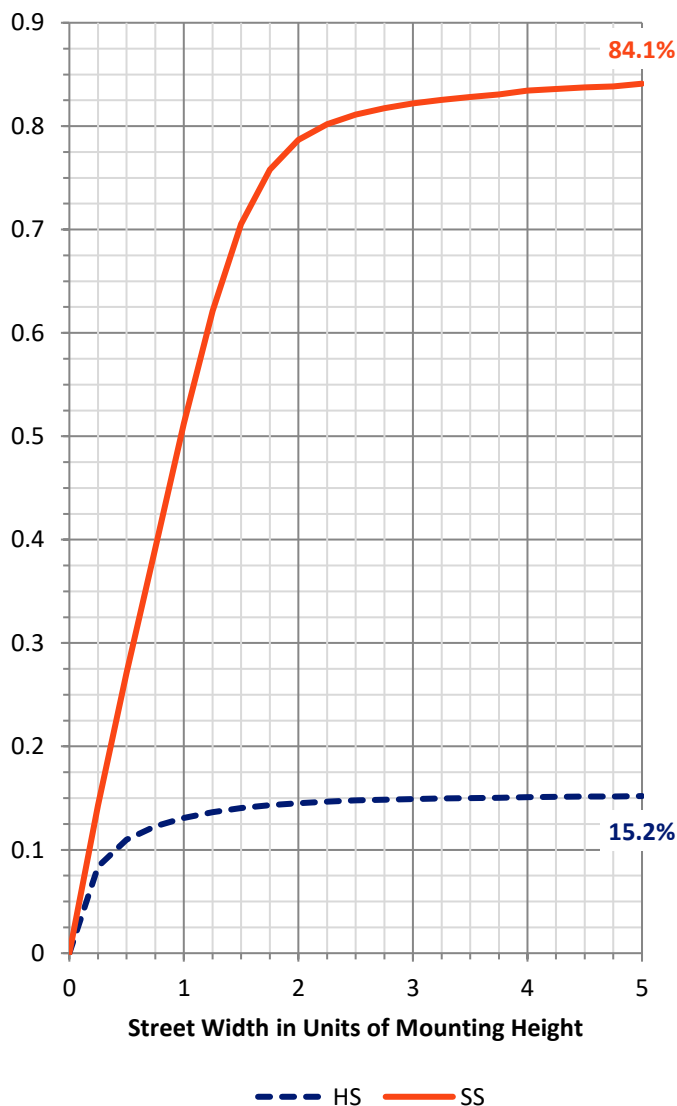
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7077.2	0.0	7077.2
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	39070.8	0.0	39070.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	46148.1	0.0	46148.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1062.7	2.3
10°-20°	2287.1	5.0
20°-30°	2957.0	6.4
30°-40°	3979.2	8.6
40°-50°	6344.9	13.7
50°-60°	11206.7	24.3
60°-70°	12328.9	26.7
70°-80°	5157.4	11.2
80°-90°	824.2	1.8
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°	46148.1	100.0
0°-180°	46148.1	100.0

Coefficient of Utilization

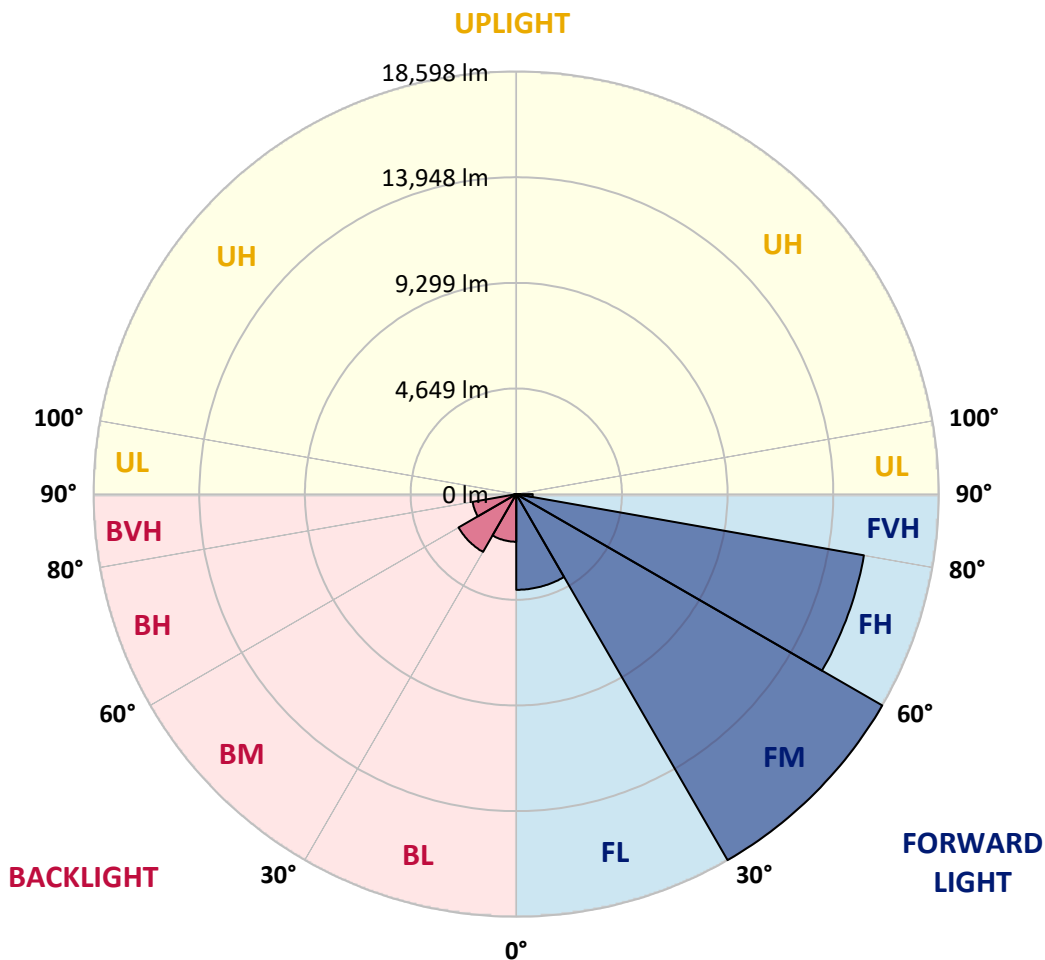


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4210.8	9.1			
FM (30°-60°)	18597.6	40.3			
FH (60°-80°)	15534.8	33.7			G5
FVH (80°-90°)	727.6	1.6			G4/750
BL (0°-30°)	2095.9	4.5	B3/2500		
BM (30°-60°)	2933.2	6.4	B3/5000		
BH (60°-80°)	1951.4	4.2	B3/2500		G3/2500
BVH (80°-90°)	96.7	0.2			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	12690.1	12690.1	12690.1	12690.1	12690.1	12690.1	12690.1	12690.1	12690.1	12690.1	12690.1
2.5°	13032.8	13053.5	13053.5	13095.1	12954.9	13022.4	13012.0	12949.7	12970.4	12861.4	12752.4
5°	12664.1	12648.5	12731.6	12742.0	12851.0	12882.2	12908.1	12866.6	12877.0	12638.1	12534.3
7.5°	11719.1	11713.9	11854.1	11973.5	12202.0	12414.9	12555.1	12513.5	12570.6	12420.1	12176.0
10°	10597.6	10717.0	10862.4	10981.8	11402.4	11672.4	12035.8	12072.2	12290.3	12253.9	11812.6
12.5°	9756.4	9808.3	9917.4	10260.0	10644.3	11090.8	11610.1	11656.8	11869.7	11973.5	11589.3
15°	9065.8	9112.5	9252.7	9507.2	9938.1	10467.7	11127.2	11246.6	11672.4	11708.7	11298.5
17.5°	8562.2	8598.5	8692.0	8946.4	9299.5	9979.7	10602.7	10815.6	11376.4	11552.9	10997.4
20°	8364.8	8287.0	8338.9	8499.8	8852.9	9377.4	10182.2	10369.1	11085.6	11433.5	10711.8
22.5°	8276.6	8209.1	8240.2	8229.8	8510.2	8884.1	9730.4	9927.7	10810.4	11293.3	10457.4
25°	8344.1	8344.1	8312.9	8287.0	8318.1	8562.2	9242.4	9548.7	10441.8	11173.9	10197.7
27.5°	8707.5	8567.3	8582.9	8473.9	8442.7	8442.7	9024.3	9206.0	10322.4	11106.4	9984.9
30°	8941.2	9008.7	9013.9	8852.9	8692.0	8401.2	8821.8	8998.3	10223.7	11189.5	9860.2
32.5°	9538.3	9507.2	9418.9	9387.7	9148.9	8821.8	8920.4	9039.9	10166.6	11376.4	9896.6
35°	10135.4	10119.9	10125.0	10109.5	9860.2	9377.4	9185.2	9346.2	10270.4	11703.5	10021.2
37.5°	10753.3	10794.9	10971.4	10971.4	10706.6	10182.2	9927.7	9881.0	10649.5	12238.3	10317.2
40°	11371.2	11475.1	11698.3	12051.4	11677.6	11189.5	10779.3	10706.6	11106.4	12954.9	11028.5
42.5°	11963.1	12134.5	12575.8	13100.3	12975.6	12487.6	11942.4	11859.3	12046.2	14019.3	12020.2
45°	12721.2	12866.6	13562.4	14367.2	14538.5	14107.6	13468.9	13401.4	13391.0	15577.0	13385.8
47.5°	13873.9	14029.7	14725.5	15535.5	16065.1	16132.6	15416.0	15343.3	15094.1	17679.9	15384.9
50°	15317.4	15571.8	16158.5	17103.5	17872.0	18593.7	18391.2	18178.4	17690.3	20125.5	17918.7
52.5°	16371.4	16683.0	17477.4	18687.2	20042.4	21189.9	21916.8	21916.8	20795.3	22809.9	20966.6
55°	16651.8	16838.7	17840.9	19590.7	21911.6	24814.2	26335.5	26221.3	24492.2	25634.5	24513.0
57.5°	15535.5	15779.5	16994.5	18827.4	22893.0	28204.7	30723.0	30749.0	28531.9	28916.1	28012.6
60°	12461.6	12539.5	13972.6	16423.3	21948.0	30935.9	36715.0	36813.6	33127.1	31839.4	29793.6
62.5°	8614.1	8863.3	9943.3	12092.9	18183.5	30629.6	42494.0	42982.1	36808.4	33381.5	30074.0
65°	5670.0	5820.6	6397.0	7705.4	12658.9	26548.4	44290.6	45796.4	39622.7	33469.8	28900.5
67.5°	4112.3	4138.3	4309.6	4984.6	7606.8	19092.2	41221.9	43345.6	40676.7	32732.5	26148.6
70°	3323.1	3343.9	3406.2	3837.1	4911.9	11947.6	33620.4	36948.6	37514.6	29238.0	21060.1
72.5°	2700.0	2726.0	2803.9	3208.9	4050.0	6646.2	24585.7	28640.9	30515.3	21631.3	13998.5
75°	2123.7	2144.4	2331.4	2731.2	3806.0	4564.1	16309.1	20281.3	20535.7	12643.3	6552.7
77.5°	1453.9	1490.2	1718.7	2315.8	3582.7	3992.9	10166.6	12991.2	11656.8	4948.3	2253.5
80°	924.2	976.2	1111.2	1755.0	3167.3	3811.2	6324.3	7757.3	5104.1	1692.7	1085.2
82.5°	545.2	597.1	732.1	1137.1	2487.1	3536.0	4455.0	4854.8	2393.7	867.1	654.2
85°	301.2	337.5	441.3	685.4	1459.0	3141.4	3567.1	3484.1	1370.8	462.1	410.2
87.5°	98.7	114.2	161.0	275.2	602.3	1479.8	2139.2	2009.4	711.3	212.9	161.0
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°	12690.1	12690.1	12690.1	12690.1	12690.1	12690.1	12690.1	12690.1	12690.1	12690.1	12690.1
2.5°	12679.7	12664.1	12430.4	12253.9	11952.7	11703.5	11604.9	11469.9	11464.7	11366.0	11340.1
5°	12373.3	12212.4	11854.1	11511.4	10976.6	10618.3	10291.2	10062.7	9969.3	9766.8	9720.0
7.5°	11978.7	11765.8	11215.4	10571.6	9943.3	9382.5	8873.7	8364.8	8079.3	7980.6	7871.6
10°	11568.5	11194.7	10379.5	9657.7	8780.2	7918.3	7118.7	6402.1	6012.7	5737.5	5618.1
12.5°	11241.4	10742.9	9704.5	8624.5	7466.6	6313.9	5384.4	4631.6	4190.2	3982.5	3889.1
15°	10872.7	10213.3	8967.2	7601.6	6158.1	4849.6	3941.0	3349.1	3172.5	3073.9	3058.3
17.5°	10483.3	9720.0	8167.5	6594.3	4880.8	3650.2	3063.5	2824.6	2746.7	2705.2	2684.4
20°	10119.9	9278.7	7347.2	5472.7	3821.6	2928.5	2653.3	2528.7	2523.5	2544.2	2539.1
22.5°	9605.8	8702.3	6537.1	4434.3	3053.1	2549.4	2372.9	2341.7	2372.9	2398.9	2409.2
25°	9315.0	8229.8	5633.7	3520.4	2523.5	2263.9	2206.7	2196.4	2243.1	2274.2	2269.0
27.5°	9013.9	7741.8	4792.5	2819.4	2211.9	2061.4	2051.0	2061.4	2108.1	2154.8	2149.6
30°	8780.2	7352.3	4003.3	2357.3	1973.1	1916.0	1905.6	1916.0	1941.9	1947.1	1947.1
32.5°	8588.1	6890.2	3333.5	2045.8	1827.7	1781.0	1791.4	1786.2	1791.4	1796.5	1801.7
35°	8473.9	6615.0	2783.1	1853.7	1708.3	1671.9	1666.7	1651.2	1656.4	1661.5	1656.4
37.5°	8717.9	6480.0	2346.9	1718.7	1625.2	1594.0	1583.7	1573.3	1557.7	1557.7	1557.7
40°	9086.6	6407.3	2082.1	1630.4	1562.9	1526.5	1495.4	1485.0	1485.0	1490.2	1495.4
42.5°	9818.7	6526.8	1900.4	1562.9	1485.0	1443.5	1412.3	1417.5	1433.1	1448.7	1438.3
45°	10877.9	6890.2	1817.3	1511.0	1438.3	1381.2	1360.4	1355.2	1370.8	1396.7	1417.5
47.5°	12264.3	7456.2	1786.2	1464.2	1407.1	1329.2	1303.3	1318.9	1339.6	1376.0	1360.4
50°	14533.3	8728.3	1812.1	1422.7	1360.4	1303.3	1272.1	1256.5	1272.1	1298.1	1308.5
52.5°	17498.2	11038.9	1910.8	1401.9	1329.2	1282.5	1230.6	1204.6	1220.2	1241.0	1241.0
55°	21044.5	14195.8	2186.0	1376.0	1277.3	1251.4	1194.2	1142.3	1152.7	1152.7	1147.5
57.5°	24170.3	16579.1	2513.1	1339.6	1246.2	1209.8	1137.1	1074.8	1064.4	1069.6	1074.8
60°	25572.2	17212.6	2668.9	1329.2	1246.2	1157.9	1059.2	996.9	981.4	971.0	971.0
62.5°	25328.2	16117.0	2352.1	1282.5	1277.3	1116.4	986.5	919.0	898.3	877.5	882.7
65°	23853.6	14554.1	1853.7	1220.2	1282.5	1090.4	913.9	846.4	810.0	784.0	778.8
67.5°	21158.8	12425.3	1469.4	1173.5	1230.6	1043.7	851.5	773.7	742.5	716.5	706.2
70°	16553.2	9740.8	1277.3	1111.2	1106.0	929.4	778.8	711.3	664.6	633.5	633.5
72.5°	10732.6	6158.1	1095.6	986.5	955.4	778.8	675.0	633.5	597.1	571.2	571.2
75°	4860.0	2861.0	882.7	825.6	778.8	623.1	571.2	550.4	519.2	493.3	493.3
77.5°	1744.6	1220.2	659.4	649.0	581.5	482.9	462.1	446.5	425.8	399.8	399.8
80°	976.2	773.7	493.3	472.5	405.0	358.3	332.3	332.3	321.9	306.3	301.2
82.5°	617.9	503.7	363.5	316.7	264.8	238.8	228.5	223.3	218.1	197.3	192.1
85°	389.4	342.7	238.8	186.9	155.8	119.4	114.2	109.0	98.7	88.3	88.3
87.5°	176.5	197.3	93.5	57.1	41.5	26.0	15.6	5.2	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)