

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: P480412

Luminaire Tested: **IFLD-L-SA8D-727-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480412
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-727-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

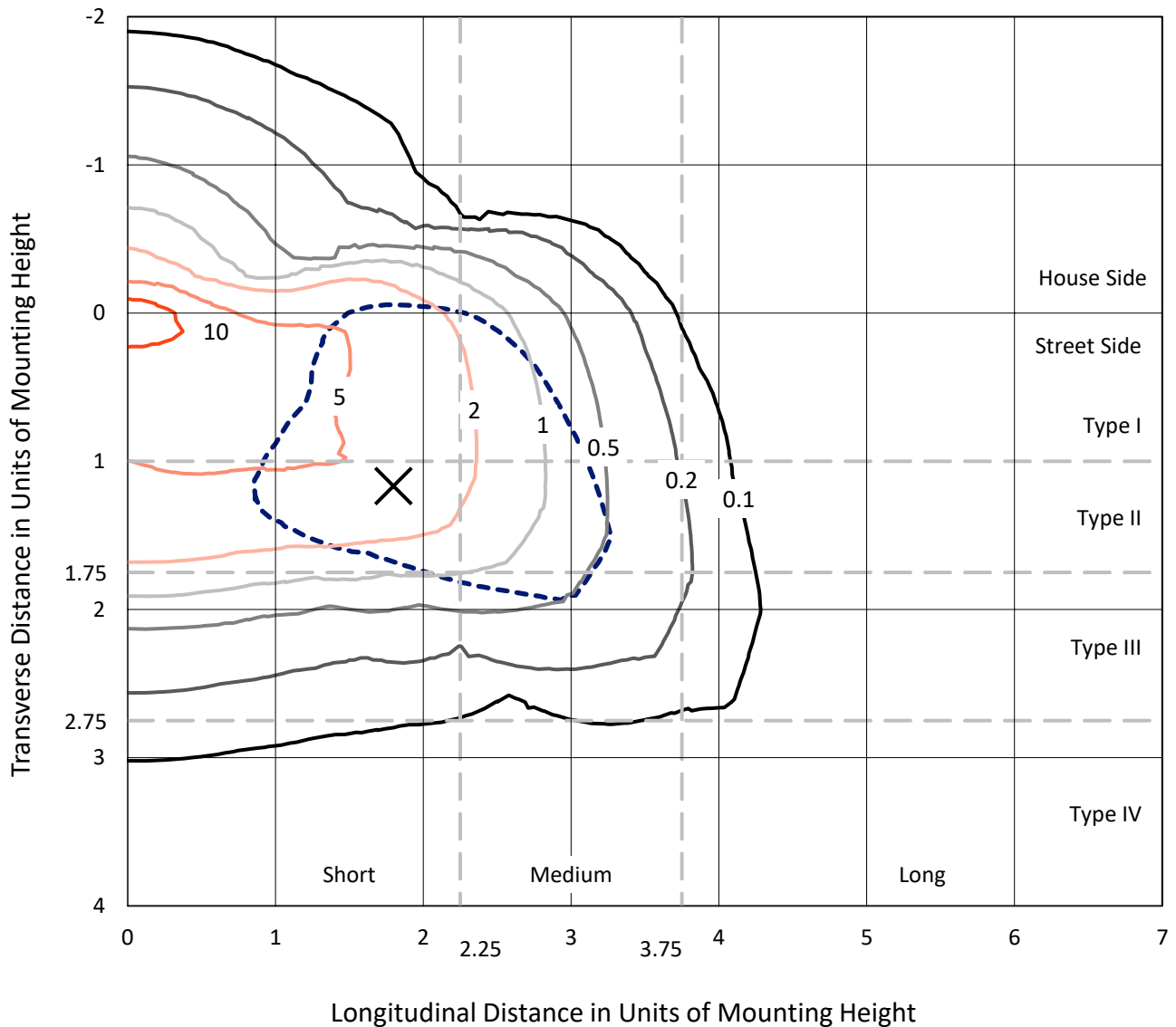
Lumens per Lamp: N/A
Luminaire Lumens: 46002.9 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3
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

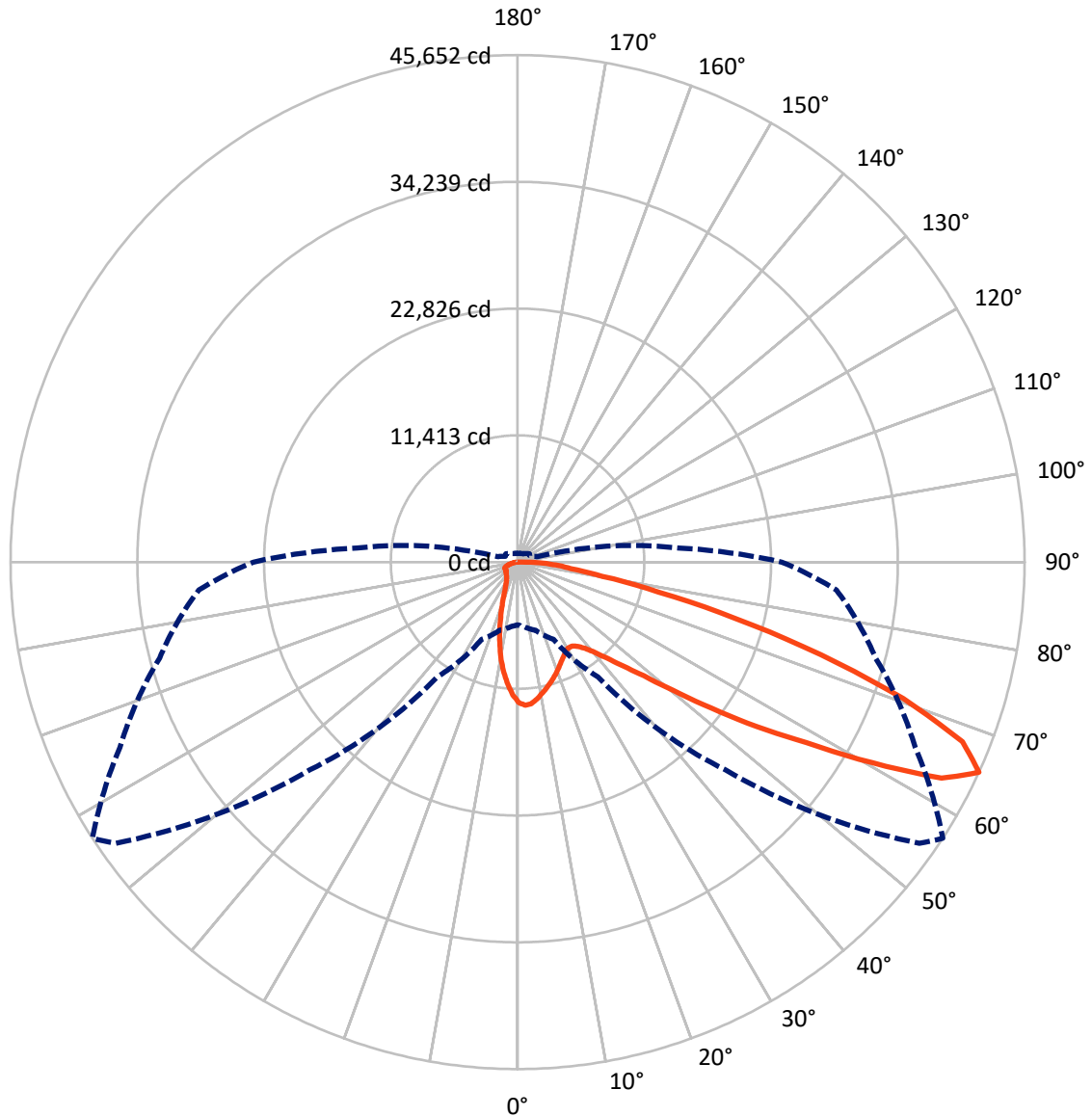
× Max cd
 - - - 1/2 Max cd



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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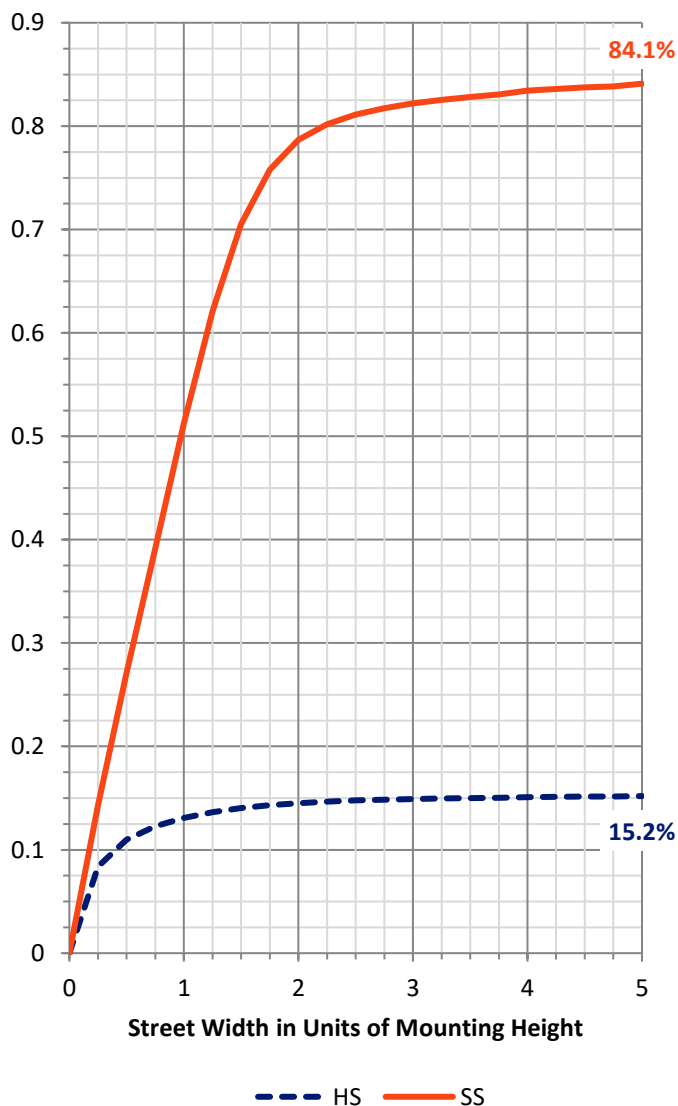
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7055.0	0.0	7055.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	38947.9	0.0	38947.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	46002.9	0.0	46002.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1059.3	2.3
10°-20°	2279.9	5.0
20°-30°	2947.7	6.4
30°-40°	3966.6	8.6
40°-50°	6325.0	13.7
50°-60°	11171.4	24.3
60°-70°	12290.1	26.7
70°-80°	5141.1	11.2
80°-90°	821.7	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°	46002.9	100.0
0°-180°	46002.9	100.0

Coefficient of Utilization



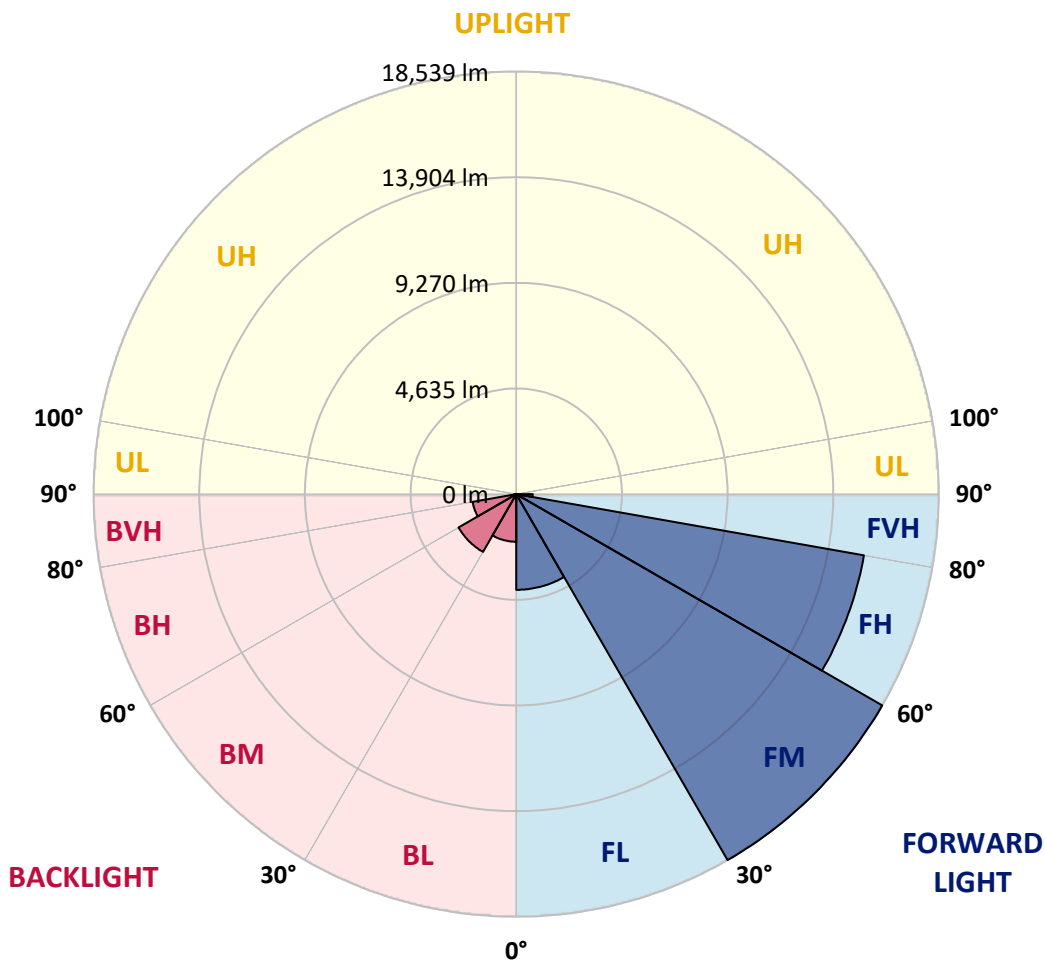
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4197.6	9.1			
FM (30°-60°)	18539.1	40.3			
FH (60°-80°)	15486.0	33.7			G5
FVH (80°-90°)	725.3	1.6			G4/750
BL (0°-30°)	2089.3	4.5	B3/2500		
BM (30°-60°)	2924.0	6.4	B3/5000		
BH (60°-80°)	1945.3	4.2	B3/2500		G3/2500
BVH (80°-90°)	96.4	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°	12650.1	12650.1	12650.1	12650.1	12650.1	12650.1	12650.1	12650.1	12650.1	12650.1	12650.1
2.5°	12991.8	13012.5	13012.5	13053.9	12914.1	12981.4	12971.1	12908.9	12929.6	12821.0	12712.3
5°	12624.3	12608.7	12691.6	12701.9	12810.6	12841.7	12867.5	12826.1	12836.5	12598.4	12494.9
7.5°	11682.2	11677.1	11816.8	11935.9	12163.6	12375.8	12515.6	12474.2	12531.1	12381.0	12137.7
10°	10564.2	10683.3	10828.2	10947.2	11366.5	11635.6	11998.0	12034.2	12251.6	12215.4	11775.4
12.5°	9725.7	9777.5	9886.2	10227.8	10610.8	11055.9	11573.5	11620.1	11832.3	11935.9	11552.8
15°	9037.3	9083.9	9223.6	9477.3	9906.9	10434.8	11092.2	11211.2	11635.6	11671.9	11263.0
17.5°	8535.2	8571.5	8664.6	8918.2	9270.2	9948.3	10569.4	10781.6	11340.6	11516.6	10962.8
20°	8338.5	8260.9	8312.7	8473.1	8825.1	9347.9	10150.1	10336.5	11050.8	11397.6	10678.1
22.5°	8250.5	8183.3	8214.3	8204.0	8483.5	8856.1	9699.8	9896.5	10776.4	11257.8	10424.5
25°	8317.8	8317.8	8286.8	8260.9	8292.0	8535.2	9213.3	9518.7	10408.9	11138.8	10165.7
27.5°	8680.2	8540.4	8555.9	8447.2	8416.2	8416.2	8995.9	9177.0	10289.9	11071.5	9953.4
30°	8913.1	8980.4	8985.5	8825.1	8664.6	8374.8	8794.0	8970.0	10191.5	11154.3	9829.2
32.5°	9508.3	9477.3	9389.3	9358.2	9120.1	8794.0	8892.4	9011.4	10134.6	11340.6	9865.5
35°	10103.6	10088.0	10093.2	10077.7	9829.2	9347.9	9156.3	9316.8	10238.1	11666.7	9989.7
37.5°	10719.5	10760.9	10936.9	10936.9	10672.9	10150.1	9896.5	9849.9	10616.0	12199.8	10284.7
40°	11335.4	11439.0	11661.5	12013.5	11640.8	11154.3	10745.4	10672.9	11071.5	12914.1	10993.8
42.5°	11925.5	12096.3	12536.3	13059.0	12934.8	12448.3	11904.8	11822.0	12008.3	13975.2	11982.4
45°	12681.2	12826.1	13519.7	14322.0	14492.8	14063.2	13426.5	13359.3	13348.9	15528.0	13343.7
47.5°	13830.3	13985.6	14679.1	15486.6	16014.5	16081.8	15367.5	15295.1	15046.6	17624.3	15336.5
50°	15269.2	15522.8	16107.7	17049.7	17815.8	18535.3	18333.4	18121.2	17634.6	20062.2	17862.4
52.5°	16319.9	16630.5	17422.4	18628.4	19979.4	21123.3	21847.9	21847.9	20729.9	22738.2	20900.7
55°	16599.4	16785.8	17784.7	19529.0	21842.7	24736.1	26252.7	26138.8	24415.2	25553.9	24435.9
57.5°	15486.6	15729.9	16941.0	18768.2	22821.0	28116.0	30626.4	30652.3	28442.1	28825.1	27924.5
60°	12422.4	12500.0	13928.6	16371.7	21879.0	30838.6	36599.5	36697.8	33022.9	31739.2	29699.9
62.5°	8587.0	8835.4	9912.0	12054.9	18126.4	30533.2	42360.4	42846.9	36692.7	33276.5	29979.4
65°	5652.2	5802.3	6376.8	7681.2	12619.1	26464.9	44151.3	45652.3	39498.1	33364.5	28809.6
67.5°	4099.4	4125.3	4296.1	4969.0	7582.8	19032.2	41092.3	43209.3	40548.8	32629.5	26066.3
70°	3312.6	3333.3	3395.5	3825.1	4896.5	11910.0	33514.6	36832.4	37396.6	29146.1	20993.9
72.5°	2691.5	2717.4	2795.0	3198.8	4037.3	6625.3	24508.4	28550.8	30419.4	21563.2	13954.5
75°	2117.0	2137.7	2324.0	2722.6	3794.0	4549.7	16257.8	20217.5	20471.1	12603.6	6532.1
77.5°	1449.3	1485.5	1713.3	2308.5	3571.4	3980.3	10134.6	12950.4	11620.1	4932.7	2246.4
80°	921.3	973.1	1107.7	1749.5	3157.4	3799.2	6304.4	7732.9	5088.0	1687.4	1081.8
82.5°	543.5	595.2	729.8	1133.5	2479.3	3524.9	4441.0	4839.6	2386.1	864.4	652.2
85°	300.2	336.4	440.0	683.2	1454.5	3131.5	3555.9	3473.1	1366.5	460.7	408.9
87.5°	98.3	113.9	160.5	274.3	600.4	1475.2	2132.5	2003.1	709.1	212.2	160.5
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°	12650.1	12650.1	12650.1	12650.1	12650.1	12650.1	12650.1	12650.1	12650.1	12650.1	12650.1
2.5°	12639.8	12624.3	12391.3	12215.4	11915.2	11666.7	11568.4	11433.8	11428.6	11330.3	11304.4
5°	12334.4	12174.0	11816.8	11475.2	10942.1	10584.9	10258.8	10031.1	9937.9	9736.1	9689.5
7.5°	11941.0	11728.8	11180.2	10538.3	9912.0	9353.0	8845.8	8338.5	8053.9	7955.5	7846.8
10°	11532.1	11159.5	10346.8	9627.4	8752.6	7893.4	7096.3	6382.0	5993.8	5719.5	5600.4
12.5°	11206.0	10709.1	9673.9	8597.3	7443.1	6294.0	5367.5	4617.0	4177.0	3970.0	3876.8
15°	10838.5	10181.2	8939.0	7577.7	6138.7	4834.4	3928.6	3338.5	3162.5	3064.2	3048.7
17.5°	10450.3	9689.5	8141.8	6573.5	4865.4	3638.7	3053.8	2815.7	2738.1	2696.7	2676.0
20°	10088.0	9249.5	7324.0	5455.5	3809.5	2919.3	2644.9	2520.7	2515.5	2536.2	2531.1
22.5°	9575.6	8675.0	6516.6	4420.3	3043.5	2541.4	2365.4	2334.4	2365.4	2391.3	2401.7
25°	9285.7	8204.0	5616.0	3509.3	2515.5	2256.7	2199.8	2189.4	2236.0	2267.1	2261.9
27.5°	8985.5	7717.4	4777.4	2810.6	2205.0	2054.9	2044.5	2054.9	2101.5	2148.0	2142.9
30°	8752.6	7329.2	3990.7	2349.9	1966.9	1909.9	1899.6	1909.9	1935.8	1941.0	1941.0
32.5°	8561.1	6868.6	3323.0	2039.3	1822.0	1775.4	1785.7	1780.5	1785.7	1790.9	1796.1
35°	8447.2	6594.2	2774.3	1847.8	1702.9	1666.7	1661.5	1646.0	1651.1	1656.3	1651.1
37.5°	8690.5	6459.6	2339.6	1713.3	1620.1	1589.0	1578.7	1568.3	1552.8	1552.8	1552.8
40°	9058.0	6387.2	2075.6	1625.3	1558.0	1521.7	1490.7	1480.3	1480.3	1485.5	1490.7
42.5°	9787.8	6506.2	1894.4	1558.0	1480.3	1438.9	1407.9	1413.0	1428.6	1444.1	1433.8
45°	10843.7	6868.6	1811.6	1506.2	1433.8	1376.8	1356.1	1350.9	1366.5	1392.3	1413.0
47.5°	12225.7	7432.7	1780.5	1459.6	1402.7	1325.1	1299.2	1314.7	1335.4	1371.6	1356.1
50°	14487.6	8700.9	1806.4	1418.2	1356.1	1299.2	1268.1	1252.6	1268.1	1294.0	1304.4
52.5°	17443.1	11004.2	1904.8	1397.5	1325.1	1278.5	1226.7	1200.8	1216.4	1237.1	1237.1
55°	20978.3	14151.2	2179.1	1371.6	1273.3	1247.4	1190.5	1138.7	1149.1	1149.1	1143.9
57.5°	24094.3	16527.0	2505.2	1335.4	1242.2	1206.0	1133.5	1071.4	1061.1	1066.3	1071.4
60°	25491.8	17158.4	2660.5	1325.1	1242.2	1154.2	1055.9	993.8	978.3	967.9	967.9
62.5°	25248.5	16066.3	2344.7	1278.5	1273.3	1112.8	983.4	916.2	895.4	874.7	879.9
65°	23778.5	14508.3	1847.8	1216.4	1278.5	1087.0	911.0	843.7	807.5	781.6	776.4
67.5°	21092.2	12386.2	1464.8	1169.8	1226.7	1040.4	848.9	771.2	740.2	714.3	703.9
70°	16501.1	9710.2	1273.3	1107.7	1102.5	926.5	776.4	709.1	662.5	631.5	631.5
72.5°	10698.8	6138.7	1092.1	983.4	952.4	776.4	672.9	631.5	595.2	569.4	569.4
75°	4844.7	2852.0	879.9	823.0	776.4	621.1	569.4	548.7	517.6	491.7	491.7
77.5°	1739.1	1216.4	657.4	647.0	579.7	481.4	460.7	445.1	424.4	398.6	398.6
80°	973.1	771.2	491.7	471.0	403.7	357.1	331.3	331.3	320.9	305.4	300.2
82.5°	615.9	502.1	362.3	315.7	264.0	238.1	227.7	222.6	217.4	196.7	191.5
85°	388.2	341.6	238.1	186.3	155.3	119.0	113.9	108.7	98.3	88.0	88.0
87.5°	176.0	196.7	93.2	56.9	41.4	25.9	15.5	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)