

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: P480099

Luminaire Tested: **IFLD-L-SA8C-735-U-SL2**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P480099
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-735-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

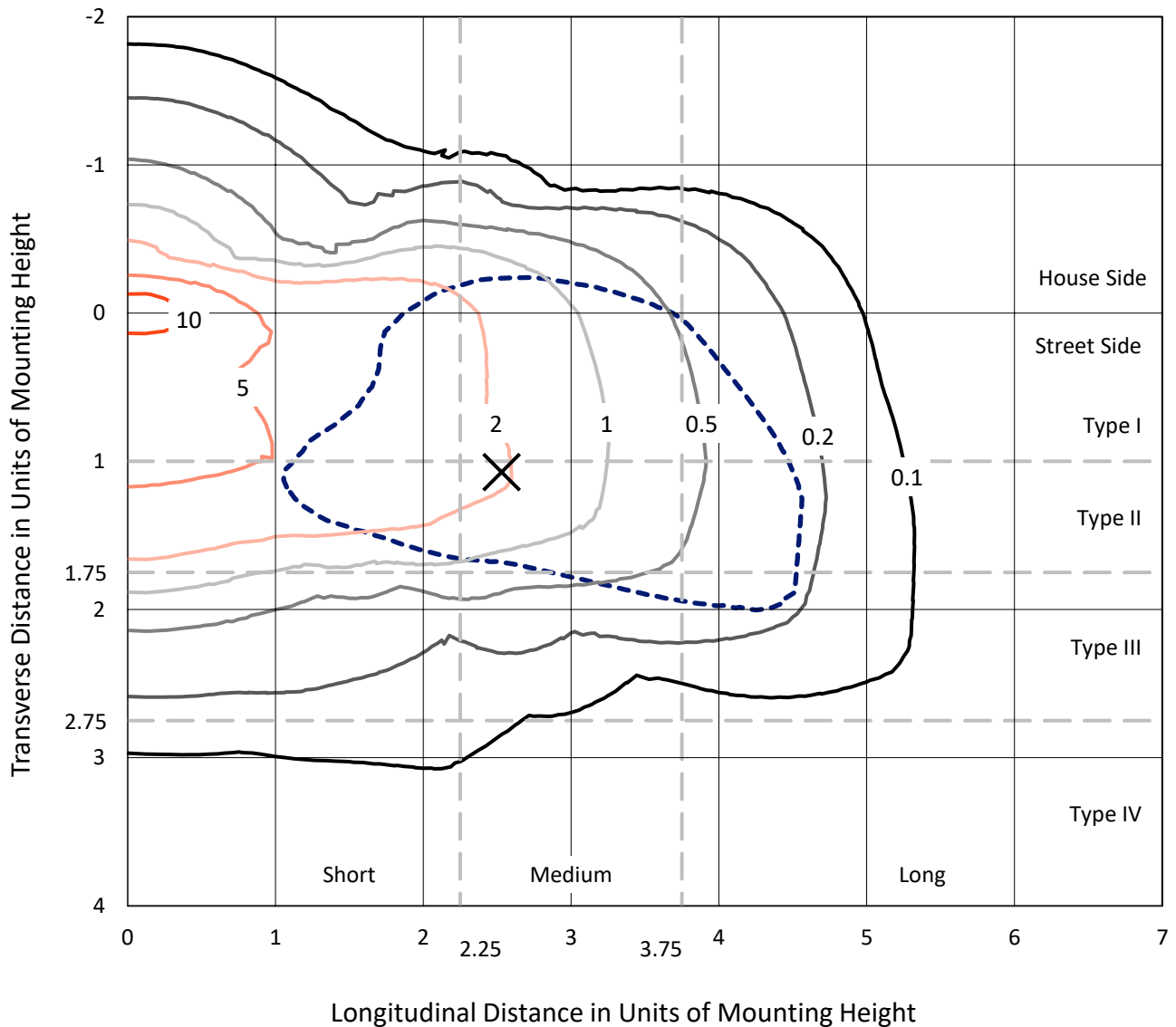
Lumens per Lamp: N/A
Luminaire Lumens: 49822.9 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 420.3
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

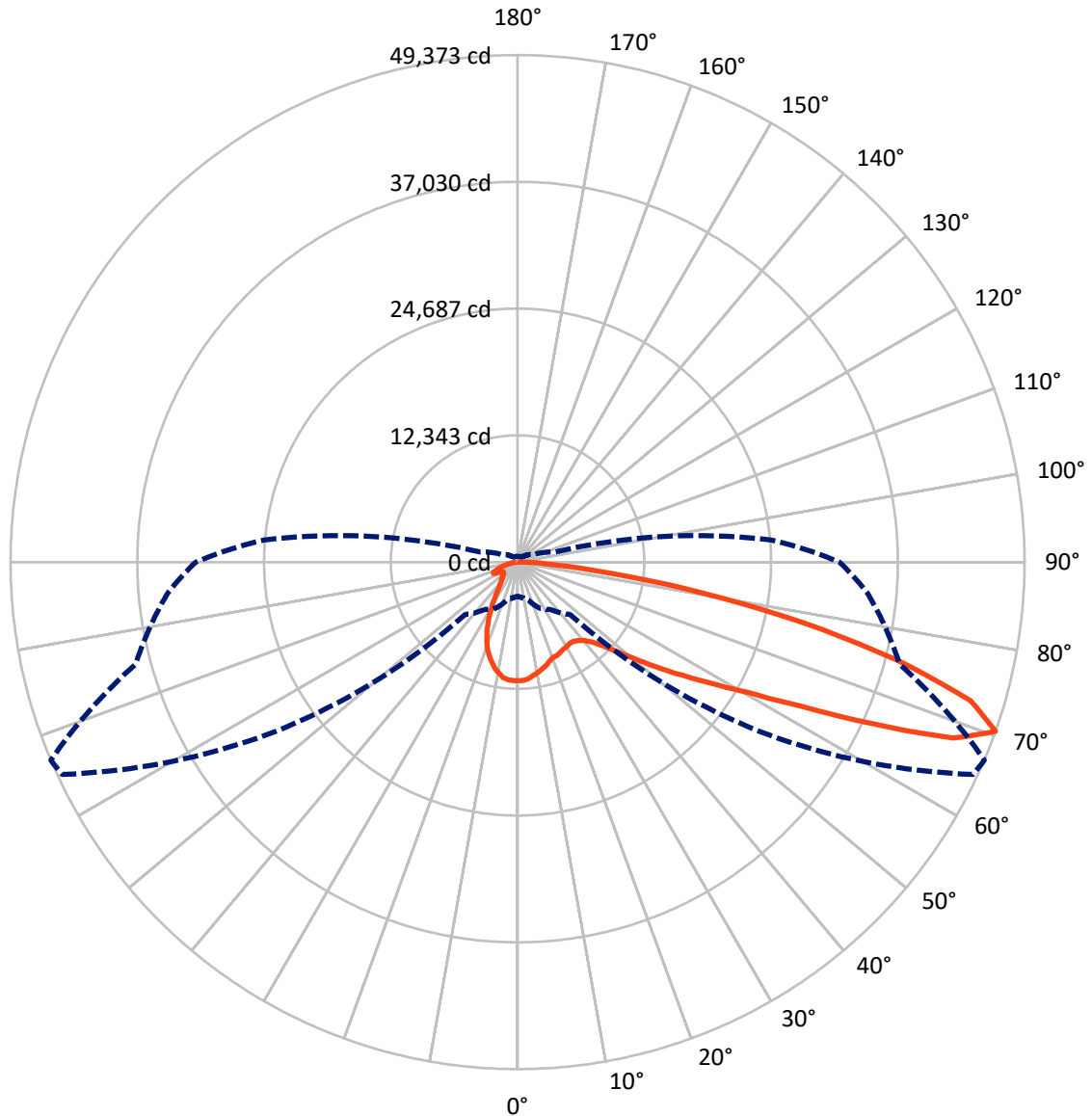
× Max cd
 - - - 1/2 Max cd



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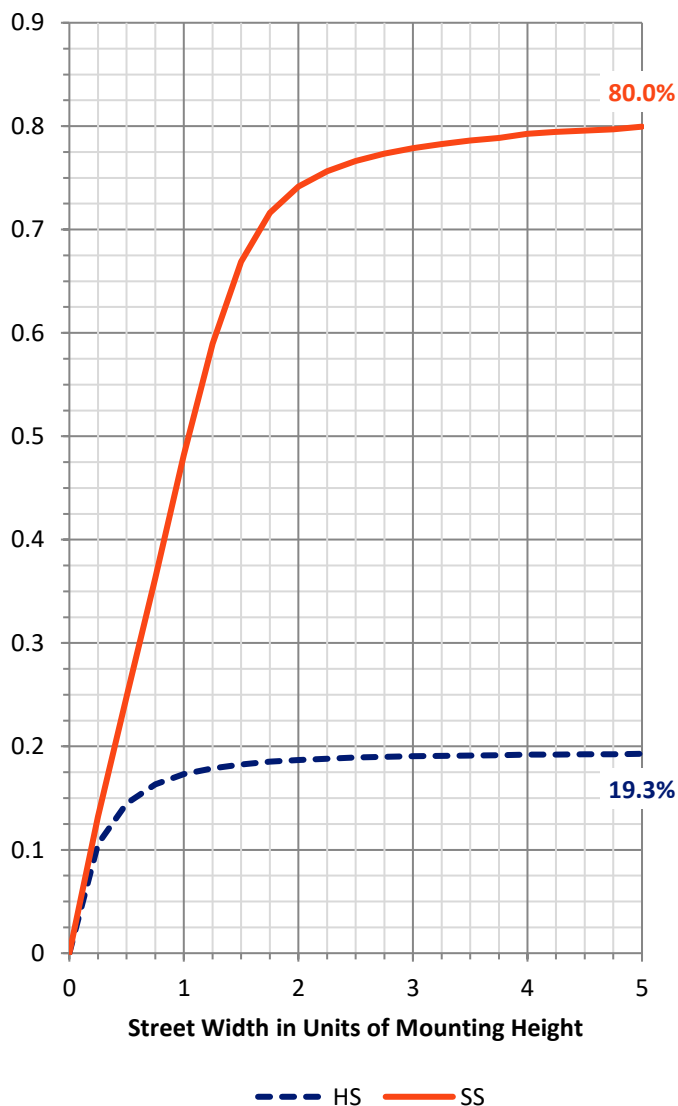
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9703.5	0.0	9703.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	40119.4	0.0	40119.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	49822.9	0.0	49822.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1006.3	2.0
10°-20°	2410.2	4.8
20°-30°	3254.8	6.5
30°-40°	4355.2	8.7
40°-50°	6404.2	12.9
50°-60°	9982.5	20.0
60°-70°	12296.8	24.7
70°-80°	8688.8	17.4
80°-90°	1424.1	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°	49822.9	100.0
0°-180°	49822.9	100.0

Coefficient of Utilization



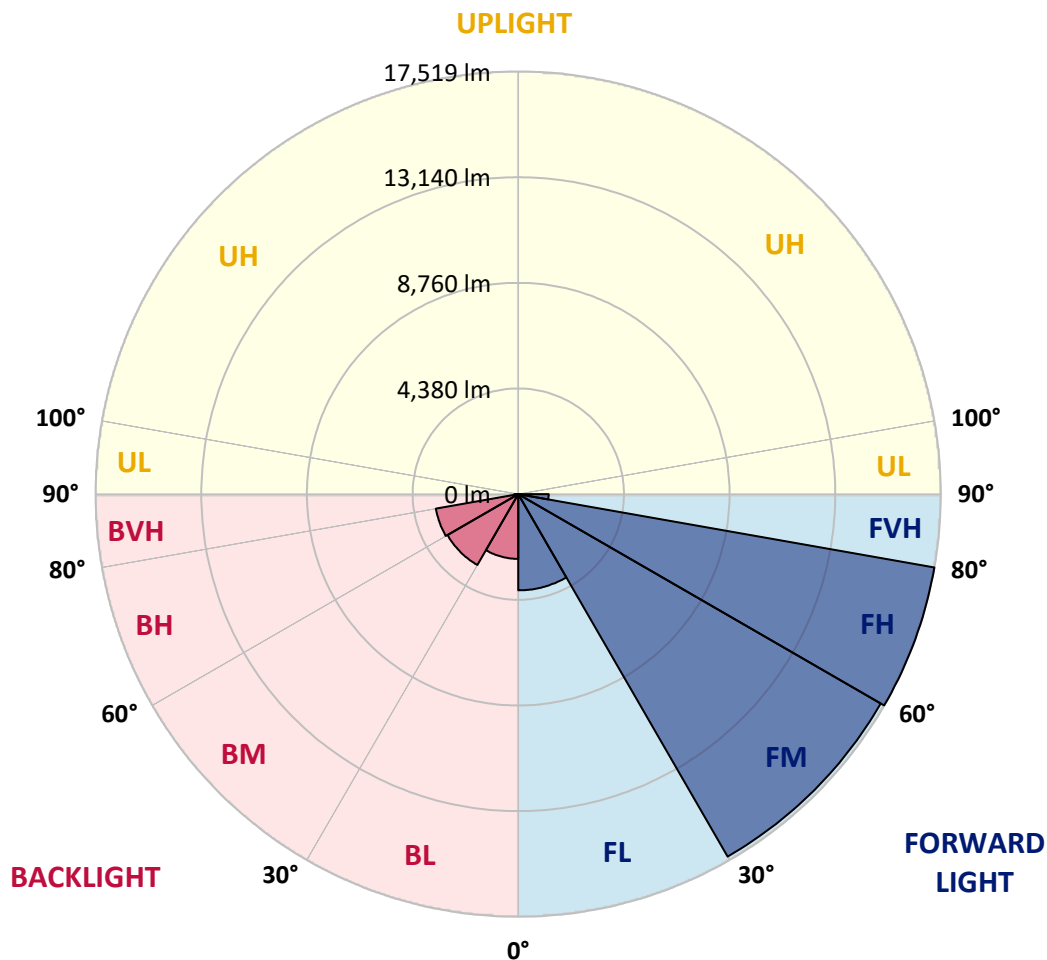
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3987.9	8.0			
FM (30°-60°)	17352.2	34.8			
FH (60°-80°)	17519.4	35.2			G5
FVH (80°-90°)	1259.8	2.5			G5
BL (0°-30°)	2683.3	5.4	B4/5000		
BM (30°-60°)	3389.6	6.8	B3/5000		
BH (60°-80°)	3466.2	7.0	B4/5000		G4/5000
BVH (80°-90°)	164.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	11533.8	11533.8	11533.8	11533.8	11533.8	11533.8	11533.8	11533.8	11533.8	11533.8	11533.8
2.5°	10739.5	10860.9	10905.0	10971.2	11142.2	11269.1	11346.3	11434.5	11539.3	11627.6	11682.8
5°	9989.4	10055.6	10160.4	10232.1	10447.2	10789.2	11020.9	11395.9	11384.9	11522.8	11732.4
7.5°	9261.3	9327.5	9377.1	9520.5	9829.4	10138.3	10563.0	11169.8	11125.7	11445.6	11771.0
10°	8809.0	8759.3	8775.9	9018.6	9261.3	9608.8	10143.8	10761.6	10921.6	11418.0	11881.3
12.5°	8384.2	8329.1	8461.5	8615.9	8913.8	9228.2	9868.0	10425.1	10667.8	11318.7	11931.0
15°	8119.5	8080.9	8246.3	8312.5	8665.5	9040.6	9492.9	10171.4	10436.2	11197.4	11853.8
17.5°	7970.5	8003.6	8064.3	8207.7	8433.9	8753.8	9250.2	10000.4	10116.2	11048.4	11837.2
20°	7998.1	8036.7	8042.2	8102.9	8257.4	8505.6	9013.0	9818.4	9895.6	11020.9	11881.3
22.5°	8218.8	8163.6	8185.7	8147.0	8191.2	8384.2	8831.0	9575.7	9873.5	10789.2	11787.6
25°	8549.7	8472.5	8461.5	8329.1	8246.3	8301.5	8797.9	9515.0	9708.1	10717.5	11782.1
27.5°	9134.4	9018.6	9018.6	8820.0	8483.5	8395.3	8704.2	9415.7	9586.7	10651.3	11655.2
30°	9697.0	9697.0	9702.5	9421.2	9046.1	8610.4	8742.8	9377.1	9487.4	10452.7	11484.2
32.5°	10381.0	10364.5	10336.9	10199.0	9619.8	8968.9	8930.3	9327.5	9382.6	10386.5	11434.5
35°	11048.4	11004.3	11219.4	11098.1	10507.9	9669.4	9123.4	9349.5	9470.9	10287.2	11280.1
37.5°	11550.4	11578.0	12024.8	12102.0	11594.5	10463.7	9669.4	9570.2	9686.0	10430.6	11280.1
40°	12201.3	12311.6	12730.8	12990.0	12681.1	11511.8	10535.4	9939.7	10022.5	10750.6	11522.8
42.5°	13056.2	13150.0	13685.1	14021.5	13933.3	12846.6	11390.4	10712.0	10645.8	11285.6	11886.9
45°	14187.0	14203.5	14744.1	15207.5	15389.5	14242.2	12747.3	11688.3	11633.1	12206.8	12554.3
47.5°	15532.9	15516.3	15852.8	16349.3	16840.2	15908.0	14308.4	13172.1	12973.5	13525.1	13663.0
50°	16834.7	16762.9	16840.2	17474.5	18417.7	17993.0	16205.8	14986.8	14788.2	15091.6	15328.8
52.5°	17551.7	17640.0	17430.4	18268.8	20094.6	20458.6	18721.1	17154.6	16983.6	17132.5	17546.2
55°	17049.8	17231.8	17093.9	17888.2	20828.2	23464.8	21975.5	19664.3	19443.7	19388.5	20067.0
57.5°	14915.1	15246.1	15273.6	16531.3	20574.5	25792.5	26553.7	22626.4	22295.4	21732.8	22433.3
60°	11451.1	11782.1	12035.8	13525.1	18401.2	27182.6	31860.1	26840.6	25748.4	24292.2	24711.4
62.5°	8025.7	8251.8	8505.6	9421.2	14187.0	26366.2	36449.3	32775.7	30762.4	26989.5	27513.5
65°	5846.9	6023.4	6282.7	6823.2	8715.2	21815.5	38578.5	39825.1	37916.6	30420.4	30354.2
67.5°	4401.7	4512.0	4854.0	5720.0	6040.0	13475.4	36372.1	47271.6	45727.2	34231.9	32637.8
70°	3331.6	3425.4	3745.3	4931.3	5642.8	7225.9	28693.9	48931.9	49373.2	38506.8	34171.3
72.5°	2294.6	2399.4	2758.0	4109.4	5372.5	5731.1	18009.5	44453.0	46124.3	40266.4	32527.5
75°	1406.6	1478.3	1687.9	3116.5	5333.9	5604.2	9912.1	36427.3	38197.9	37205.0	28456.7
77.5°	992.9	987.4	1026.0	1825.8	4622.4	5637.3	6111.7	26691.6	28412.6	27419.7	19311.3
80°	722.6	728.1	766.7	1092.2	3138.6	5731.1	4815.4	17877.2	18390.1	14297.3	7617.5
82.5°	435.8	457.8	551.6	739.1	1886.5	5174.0	4451.4	9934.2	9294.4	4589.3	2096.1
85°	231.7	231.7	325.4	468.9	1003.9	3861.2	4285.9	4727.2	3960.4	1423.1	777.7
87.5°	55.2	55.2	93.8	187.5	402.7	1847.8	2923.4	1880.9	1505.9	479.9	319.9
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°	11533.8	11533.8	11533.8	11533.8	11533.8	11533.8	11533.8	11533.8	11533.8	11533.8	11533.8
2.5°	11660.7	11594.5	11677.2	11511.8	11379.4	11384.9	11180.8	11169.8	11142.2	10998.8	11048.4
5°	11793.1	11737.9	11644.2	11462.1	11169.8	10877.4	10700.9	10474.8	10381.0	10331.4	10353.4
7.5°	11919.9	11820.7	11550.4	11296.6	10844.3	10292.7	9972.8	9669.4	9283.3	9239.2	9162.0
10°	11953.0	11743.4	11395.9	10855.4	10254.1	9641.9	8913.8	8351.1	8053.3	7821.6	7733.4
12.5°	11903.4	11815.1	11147.7	10452.7	9542.6	8582.8	7733.4	6939.1	6387.5	6100.6	6023.4
15°	11897.9	11743.4	10871.9	9840.4	8676.6	7424.5	6216.5	5262.2	4683.0	4445.8	4445.8
17.5°	11903.4	11533.8	10546.5	9222.7	7656.1	5962.7	4633.4	3850.1	3530.2	3497.1	3524.7
20°	11793.1	11379.4	10204.5	8494.6	6376.4	4478.9	3364.7	3044.8	3044.8	3088.9	3105.5
22.5°	11693.8	11147.7	9663.9	7595.5	5074.7	3243.4	2735.9	2642.1	2746.9	2824.2	2857.3
25°	11555.9	10954.7	9112.3	6663.3	3861.2	2614.6	2377.4	2399.4	2498.7	2636.6	2625.6
27.5°	11357.3	10618.2	8455.9	5582.1	2873.8	2256.0	2195.3	2206.4	2311.2	2371.9	2360.8
30°	11131.2	10276.2	7849.2	4506.5	2278.1	2068.5	2063.0	2090.5	2107.1	2140.2	2134.7
32.5°	10844.3	9823.9	7203.8	3502.6	2051.9	1963.7	1941.6	1925.1	1941.6	1936.1	1919.5
35°	10640.3	9581.2	6547.4	2669.7	1925.1	1869.9	1853.4	1825.8	1803.7	1770.6	1765.1
37.5°	10585.1	9338.5	5857.9	2178.8	1825.8	1798.2	1743.0	1693.4	1665.8	1649.3	1638.2
40°	10552.0	9178.5	5185.0	1914.0	1743.0	1715.5	1649.3	1583.1	1555.5	1538.9	1544.5
42.5°	10667.8	9090.3	4501.0	1781.6	1671.3	1621.7	1550.0	1472.8	1467.2	1456.2	1472.8
45°	11076.0	9200.6	3866.7	1687.9	1599.6	1516.9	1423.1	1384.5	1379.0	1368.0	1379.0
47.5°	12002.7	9476.4	3326.1	1627.2	1522.4	1450.7	1351.4	1296.2	1290.7	1285.2	1285.2
50°	13282.4	10325.8	2873.8	1555.5	1472.8	1373.5	1279.7	1219.0	1208.0	1185.9	1185.9
52.5°	15290.2	11754.5	2603.5	1516.9	1384.5	1301.8	1202.5	1136.3	1108.7	1086.6	1086.6
55°	17551.7	13525.1	2553.9	1450.7	1290.7	1213.5	1125.3	1059.1	1031.5	1003.9	992.9
57.5°	20127.7	15869.4	2906.9	1406.6	1224.5	1125.3	1026.0	965.3	943.2	915.6	904.6
60°	22527.1	18208.1	4004.6	1340.4	1163.9	1042.5	943.2	882.6	855.0	827.4	827.4
62.5°	25301.6	21104.0	5863.4	1340.4	1108.7	954.3	855.0	810.8	794.3	766.7	761.2
65°	28583.6	24099.1	7220.4	1423.1	1092.2	877.0	772.2	728.1	711.6	695.0	689.5
67.5°	31082.3	25820.1	6211.0	1643.8	1163.9	810.8	689.5	661.9	650.9	634.3	623.3
70°	31347.1	24772.1	3745.3	1776.1	1235.6	744.7	617.8	590.2	590.2	573.7	562.6
72.5°	28969.7	21981.0	2520.8	1583.1	1119.7	667.4	546.1	524.0	513.0	502.0	496.4
75°	24242.6	18643.9	1991.3	1263.2	860.5	551.6	474.4	452.3	435.8	430.2	419.2
77.5°	16283.1	12118.5	1472.8	987.4	634.3	446.8	397.1	375.1	358.5	353.0	336.5
80°	6255.1	4616.8	948.7	717.1	446.8	353.0	314.4	292.3	281.3	264.8	253.7
82.5°	1842.3	1494.8	529.5	441.3	286.8	242.7	226.2	209.6	193.1	176.5	171.0
85°	761.2	684.0	325.4	231.7	176.5	143.4	132.4	115.8	99.3	88.3	77.2
87.5°	353.0	292.3	148.9	88.3	60.7	33.1	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)