

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: P477095

Luminaire Tested: **IFLD-L-SA8B-760-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477095
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-760-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (128) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

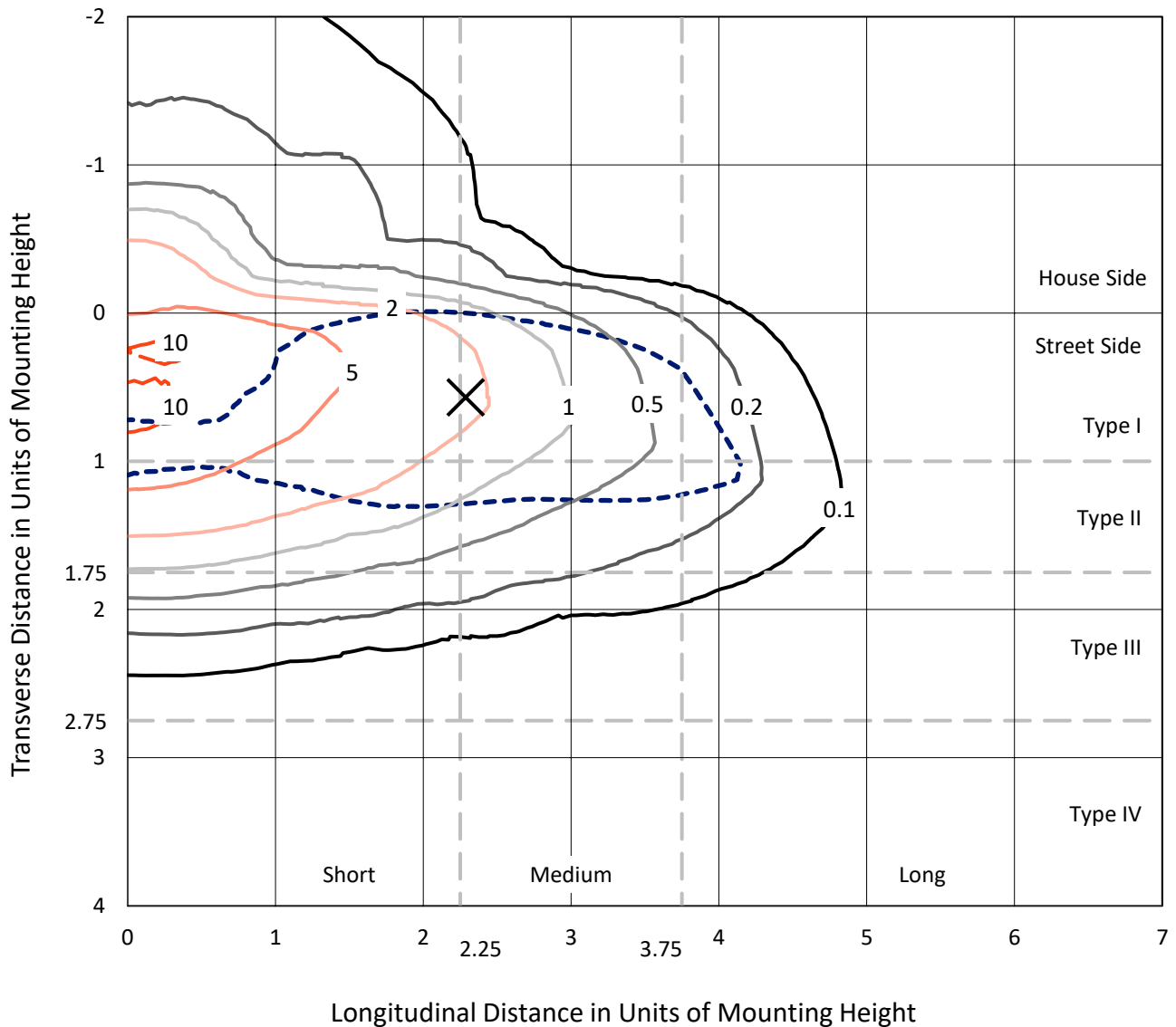
Lumens per Lamp: N/A
Luminaire Lumens: 41864.7 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

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

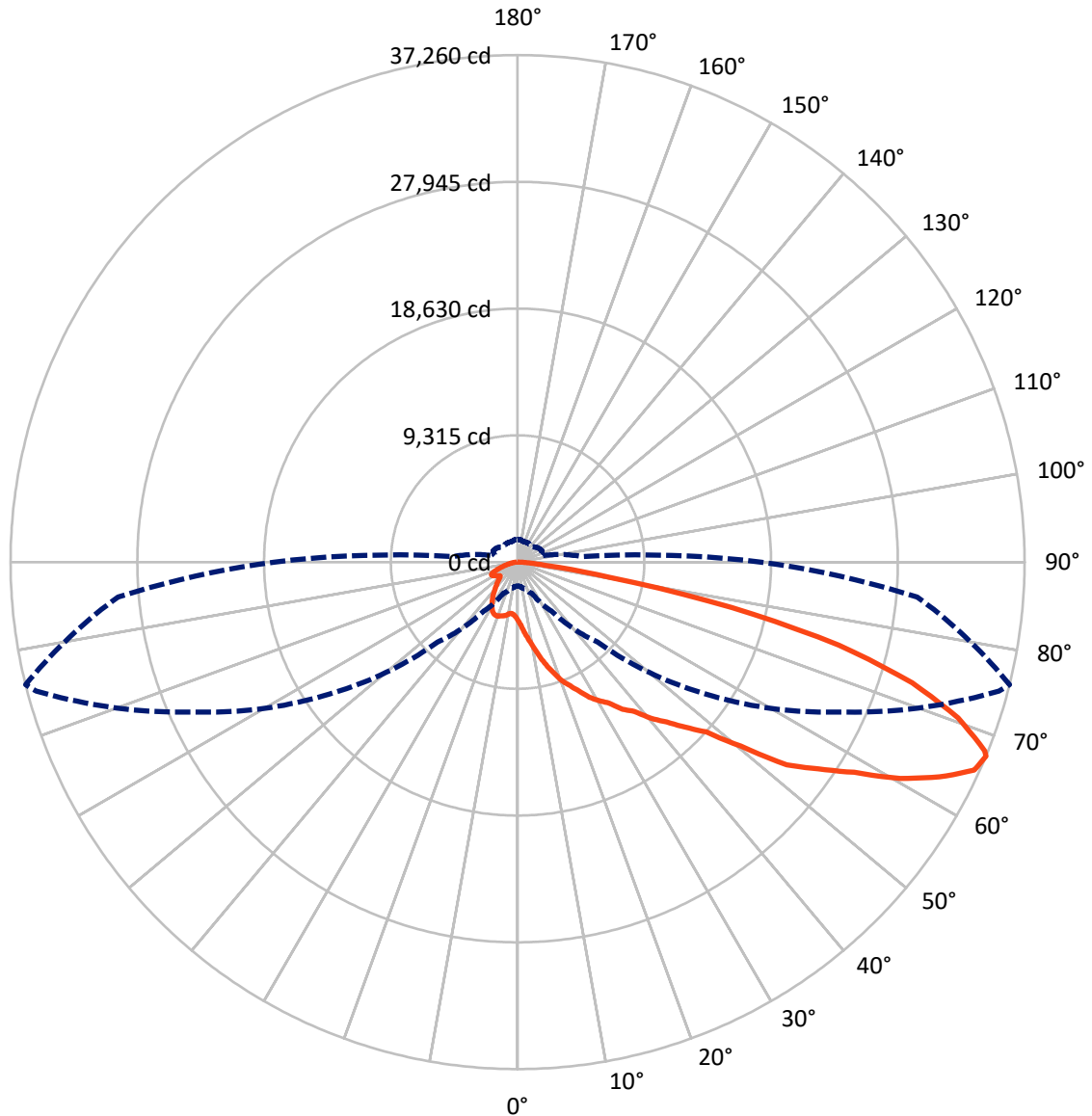
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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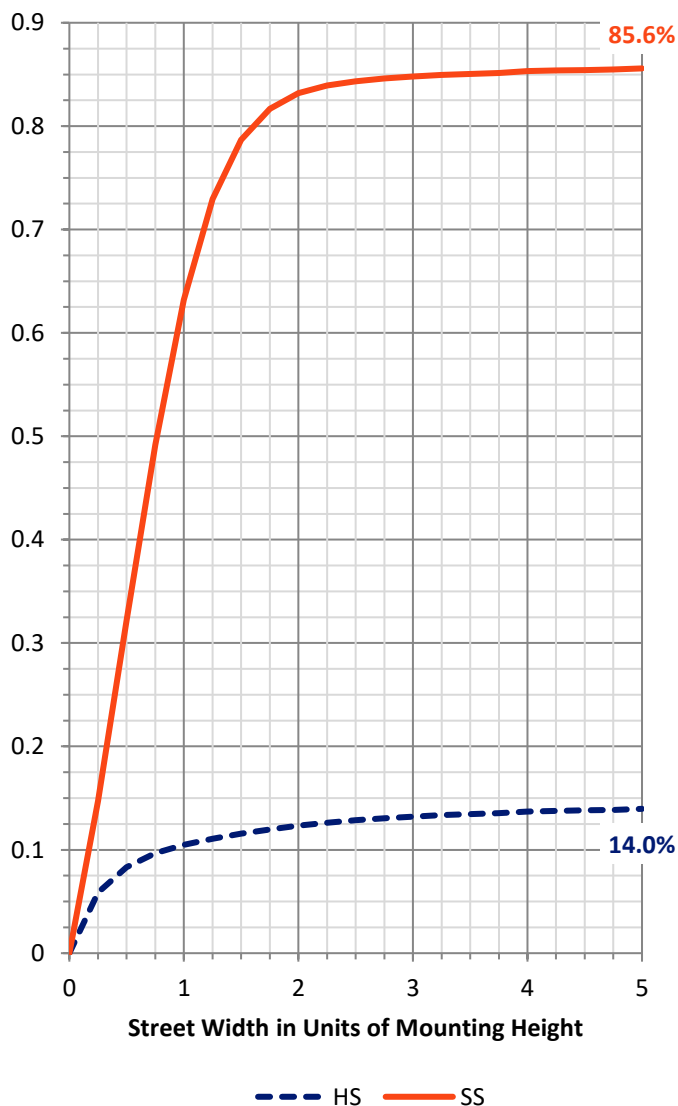
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5955.8	0.0	5955.8
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	35908.9	0.0	35908.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	41864.7	0.0	41864.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.3	1.2
10°-20°	1861.2	4.4
20°-30°	3460.3	8.3
30°-40°	5485.4	13.1
40°-50°	7586.8	18.1
50°-60°	9332.2	22.3
60°-70°	8684.0	20.7
70°-80°	4357.6	10.4
80°-90°	600.8	1.4
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°	41864.7	100.0
0°-180°	41864.7	100.0

Coefficient of Utilization



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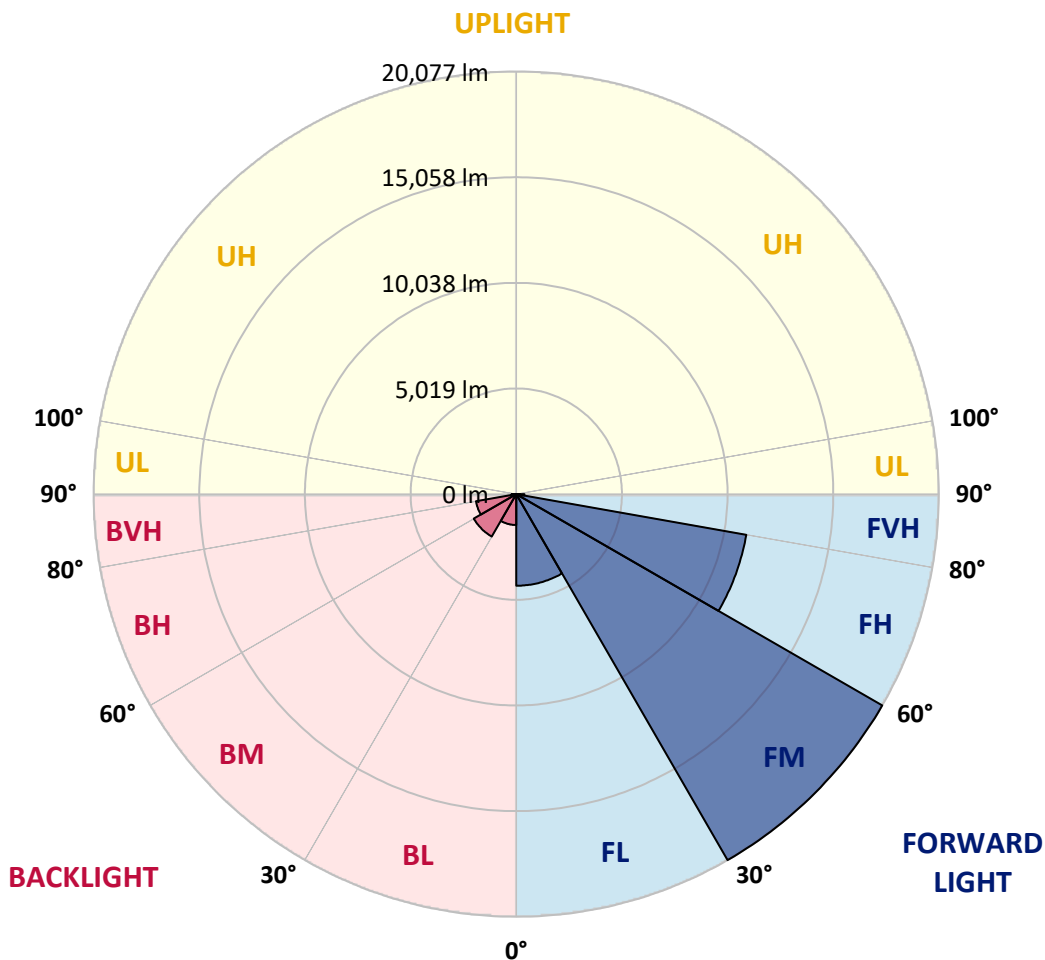
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4351.2	10.4			
FM (30°-60°)	20076.9	48.0			
FH (60°-80°)	11098.0	26.5			G4/12000
FVH (80°-90°)	382.8	0.9			G3/500
BL (0°-30°)	1466.7	3.5	B3/2500		
BM (30°-60°)	2327.4	5.6	B2/2500		
BH (60°-80°)	1943.7	4.6	B3/2500		G3/2500
BVH (80°-90°)	218.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4284.2	4284.2	4284.2	4284.2	4284.2	4284.2	4284.2	4284.2	4284.2	4284.2	4284.2
2.5°	5944.5	5872.9	5801.3	5648.7	5596.2	5453.1	5190.7	4899.6	4661.1	4627.7	4460.7
5°	7375.7	7270.7	7246.9	7161.0	6889.1	6612.4	6183.0	5715.5	5133.4	5176.4	4603.9
7.5°	8449.1	8387.1	8258.3	8177.2	8015.0	7647.6	7204.0	6583.7	5844.3	5701.1	4923.5
10°	9260.2	9174.3	9169.5	9098.0	9012.1	8635.2	8296.5	7461.6	6512.2	6316.6	5314.7
12.5°	9670.5	9656.2	9909.0	9909.0	9875.6	9718.2	9136.1	8372.8	7146.7	7079.9	5767.9
15°	10114.2	9994.9	10214.4	10381.3	10467.2	10548.3	10066.5	9260.2	7957.7	7828.9	6254.6
17.5°	10114.2	10104.6	10324.1	10600.8	11049.2	11154.2	10891.8	10076.0	8630.4	8535.0	6788.9
20°	9942.4	10080.8	10233.4	10605.6	11092.2	11516.8	11593.1	10910.9	9374.7	9298.4	7394.8
22.5°	10743.9	10610.3	10767.8	10910.9	11287.8	11931.9	12141.8	11645.6	10157.1	9866.1	7943.4
25°	12089.3	11998.6	11884.1	11674.2	11831.7	12113.1	12432.8	12189.5	10825.0	10500.6	8473.0
27.5°	13401.3	13406.0	13158.0	12700.0	12361.2	12418.5	12795.4	12666.6	11388.0	11244.9	8835.6
30°	15266.7	15152.2	14875.5	14255.2	13592.1	13048.2	12986.2	13110.2	12103.6	11826.9	9355.6
32.5°	16664.5	16688.4	16297.2	15405.0	14498.6	14054.9	13511.0	13563.5	12556.8	12351.7	9770.7
35°	17795.2	17766.6	17489.9	16750.4	15677.0	15142.6	14407.9	14107.4	13611.2	13286.8	10405.2
37.5°	19016.5	18782.8	18334.3	17499.4	16812.4	16072.9	15357.3	14679.9	14312.5	13921.3	10949.1
40°	19507.9	19507.9	18906.8	18525.1	17709.3	17151.1	16688.4	15433.6	15166.5	15090.1	11645.6
42.5°	19159.7	19374.4	19126.3	18692.1	18358.2	17652.1	17528.0	16216.1	16220.8	16068.2	12480.5
45°	19126.3	18830.5	18625.3	18735.1	18577.6	18539.5	18854.3	17299.0	17327.7	17308.6	13601.6
47.5°	18167.3	18033.7	18339.1	18520.4	18649.2	19240.8	20147.2	18591.9	18797.1	18654.0	14894.5
50°	17213.2	17189.3	17380.1	18038.5	18596.7	19570.0	21378.1	20586.1	21258.8	21249.3	17237.0
52.5°	14598.7	14851.6	15600.6	16993.7	18372.5	20018.4	22308.4	23133.8	24417.1	24765.4	19178.7
55°	12098.8	11965.2	13072.1	15094.9	17394.5	20194.9	23348.5	24665.2	26554.5	26807.3	21173.0
57.5°	9412.9	9660.9	10534.0	12475.7	15371.6	19321.9	24111.8	26177.6	28968.5	29164.1	23486.8
60°	7022.7	7056.1	8015.0	9579.8	12680.9	17351.5	24359.9	27728.1	31735.6	32293.8	25910.4
62.5°	4417.8	4618.2	5348.1	6889.1	9546.4	14594.0	23248.3	28667.9	34636.2	34784.1	28353.1
65°	2380.6	2509.5	3058.1	4026.6	6669.6	11039.7	20299.9	28105.0	36000.7	36878.5	29440.8
67°	1760.4	1784.3	2037.1	2571.5	4460.7	8310.8	16926.9	26067.8	36620.9	37260.2	29483.7
67.5°	1650.7	1684.1	1884.5	2309.1	3955.0	7652.4	16044.3	25342.7	36344.2	37031.2	29149.8
70°	1412.2	1421.7	1469.4	1588.7	2218.4	4603.9	10925.2	20767.4	33686.8	34345.2	26807.3
72.5°	1254.7	1264.3	1283.4	1307.2	1502.8	2662.1	6645.8	15982.3	29278.6	30328.2	23129.0
75°	1102.1	1135.5	1145.0	1125.9	1278.6	1731.8	3535.2	11745.8	23882.8	24393.3	17986.0
77.5°	935.1	949.4	968.5	987.6	1140.2	1292.9	1698.4	7929.1	16392.6	16082.5	9727.7
80°	787.2	792.0	806.3	820.6	987.6	987.6	963.7	4284.2	7161.0	6846.1	3287.1
82.5°	563.0	596.4	629.7	667.9	820.6	663.1	629.7	1908.3	2266.1	2156.4	1111.6
85°	219.5	267.2	415.1	458.0	520.0	357.8	419.8	825.4	944.6	935.1	415.1
87.5°	38.2	42.9	114.5	176.5	190.8	124.0	200.4	295.8	353.0	381.7	152.7
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°	4284.2	4284.2	4284.2	4284.2	4284.2	4284.2	4284.2	4284.2	4284.2	4284.2	4284.2
2.5°	4322.4	4174.5	3998.0	3821.4	3706.9	3525.6	3511.3	3401.6	3387.3	3349.1	3368.2
5°	4355.8	4179.2	3821.4	3540.0	3411.1	3306.2	3330.0	3282.3	3268.0	3244.2	3206.0
7.5°	4618.2	4269.9	3735.6	3492.2	3396.8	3349.1	3349.1	3291.9	3248.9	3277.6	3306.2
10°	4789.9	4312.8	3802.4	3559.0	3482.7	3377.7	3415.9	3344.4	3368.2	3311.0	3311.0
12.5°	5066.6	4556.1	3940.7	3659.2	3535.2	3439.8	3477.9	3396.8	3377.7	3382.5	3368.2
15°	5438.7	4718.4	4002.7	3716.5	3630.6	3511.3	3482.7	3411.1	3339.6	3315.7	3344.4
17.5°	5787.0	4918.7	4045.7	3749.9	3611.5	3477.9	3444.5	3353.9	3330.0	3258.5	3201.2
20°	6202.1	5157.3	4102.9	3778.5	3540.0	3406.4	3320.5	3229.9	3148.7	3105.8	3124.9
22.5°	6478.8	5281.3	4131.5	3721.2	3435.0	3311.0	3129.7	3067.6	2953.1	2905.4	2867.3
25°	6932.0	5434.0	4060.0	3563.8	3248.9	3048.6	2886.4	2800.5	2719.4	2657.4	2638.3
27.5°	7046.5	5548.5	3893.0	3296.6	2953.1	2743.2	2604.9	2499.9	2447.4	2352.0	2332.9
30°	7380.5	5434.0	3644.9	2972.2	2671.7	2457.0	2318.6	2242.3	2118.2	2094.4	2041.9
32.5°	7595.2	5467.4	3330.0	2657.4	2347.2	2156.4	2065.8	1989.4	1956.0	1841.5	1812.9
35°	7953.0	5352.9	3010.4	2366.3	2080.1	1932.2	1855.9	1832.0	1722.3	1669.8	1622.1
37.5°	8182.0	5286.1	2690.7	2037.1	1789.1	1727.0	1750.9	1650.7	1517.1	1416.9	1383.5
40°	8582.7	5262.2	2328.2	1765.2	1588.7	1574.4	1650.7	1459.9	1216.6	1130.7	1083.0
42.5°	9160.0	5100.0	2046.7	1521.9	1431.2	1493.3	1507.6	1216.6	1078.2	1006.6	973.2
45°	9713.4	5133.4	1770.0	1259.5	1245.2	1335.8	1302.4	1030.5	949.4	896.9	925.5
47.5°	10777.3	5300.4	1498.0	1049.6	1121.1	1207.0	1011.4	920.8	844.4	806.3	811.0
50°	12423.2	5462.6	1259.5	958.9	1059.1	1092.5	868.3	834.9	830.1	753.8	749.0
52.5°	13410.8	5400.6	1216.6	1073.4	1135.5	1092.5	944.6	920.8	882.6	849.2	811.0
55°	14980.4	5581.9	1307.2	1254.7	1288.1	1049.6	1059.1	1049.6	1021.0	935.1	958.9
57.5°	16230.4	5701.1	1426.5	1402.6	1383.5	1092.5	1106.8	1111.6	1092.5	1054.4	1087.7
60°	17947.9	5939.7	1550.5	1555.3	1560.1	1187.9	1211.8	1240.4	1235.6	1221.3	1230.9
62.5°	19002.2	5830.0	1688.9	1765.2	1741.4	1383.5	1378.8	1397.9	1397.9	1421.7	1436.0
65°	18844.8	5424.4	1760.4	1951.3	1827.2	1526.7	1526.7	1536.2	1541.0	1588.7	1593.5
67°	17900.2	4699.3	1722.3	1979.9	1827.2	1583.9	1583.9	1593.5	1560.1	1684.1	1645.9
67.5°	17461.2	4484.6	1688.9	1956.0	1812.9	1579.1	1579.1	1583.9	1555.3	1674.6	1636.4
70°	15185.6	3330.0	1455.1	1731.8	1679.3	1536.2	1536.2	1507.6	1483.7	1641.2	1607.8
72.5°	12962.4	2418.8	1168.9	1474.2	1517.1	1479.0	1488.5	1416.9	1350.1	1459.9	1431.2
75°	9928.1	1779.5	911.2	1135.5	1283.4	1383.5	1445.6	1264.3	1178.4	1207.0	1154.5
77.5°	5538.9	1159.3	720.4	839.7	978.0	1288.1	1388.3	1140.2	963.7	930.3	930.3
80°	1879.7	677.5	529.6	625.0	672.7	1140.2	1297.7	925.5	758.6	725.2	701.3
82.5°	710.9	415.1	362.6	429.4	429.4	901.7	1059.1	710.9	572.5	739.5	753.8
85°	324.4	248.1	238.5	248.1	248.1	553.4	749.0	462.8	515.2	443.7	391.2
87.5°	128.8	119.3	109.7	105.0	85.9	95.4	257.6	124.0	233.8	62.0	57.2
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)