

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: P476851

Luminaire Tested: **IFLD-M-SA4B-722-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476851
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-722-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

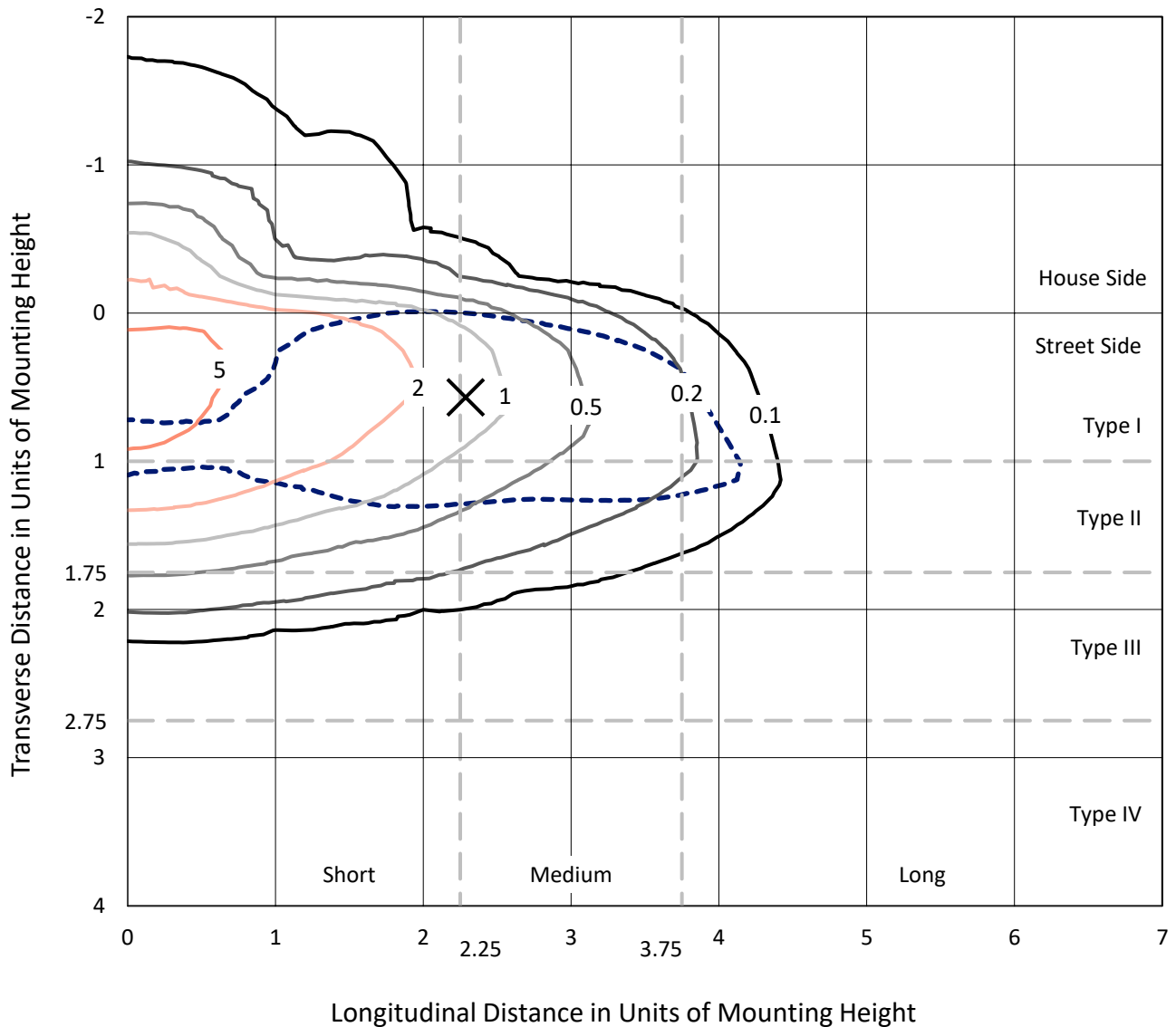
Lumens per Lamp: N/A
Luminaire Lumens: 16918.1 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 166.1
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

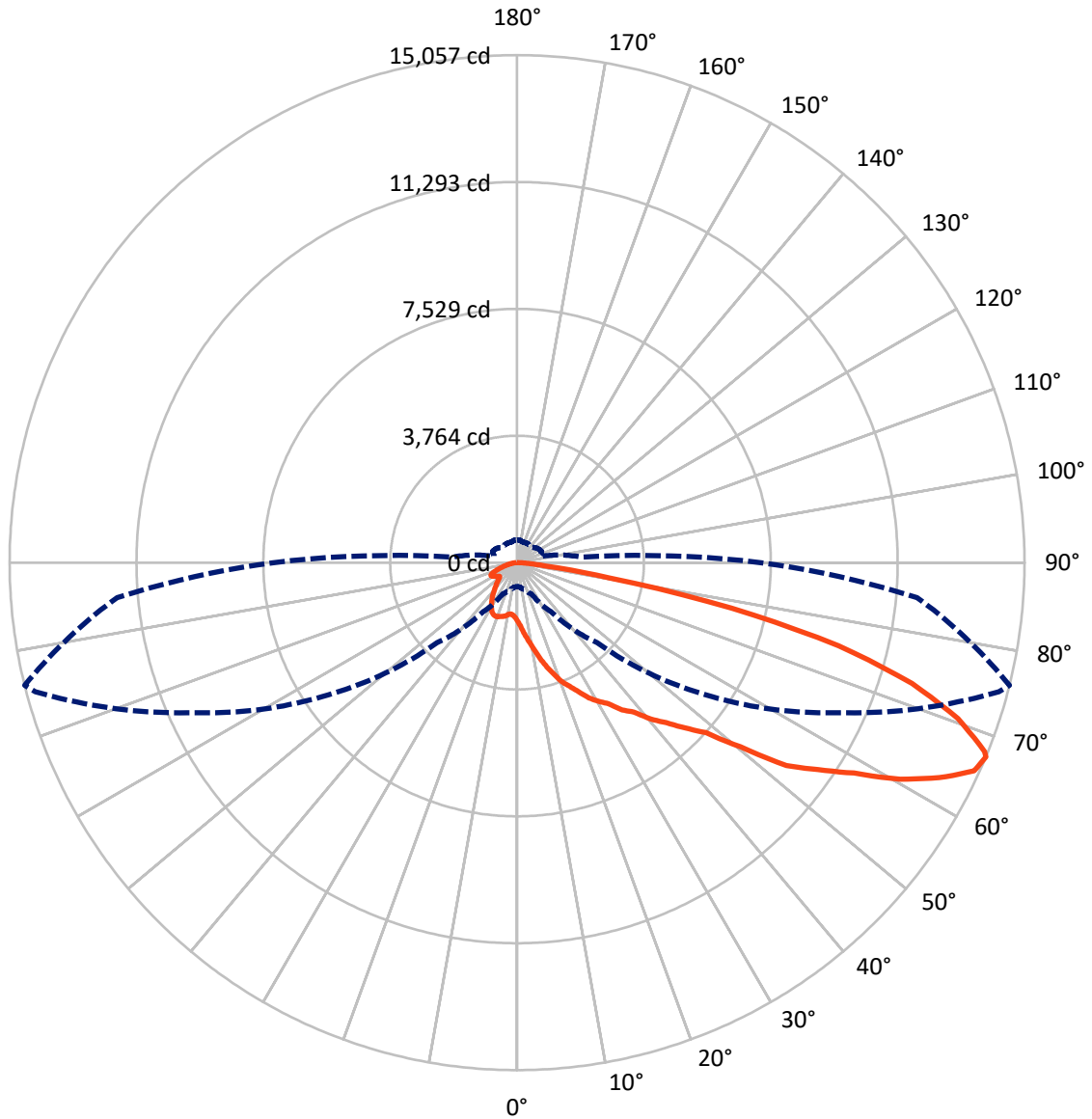
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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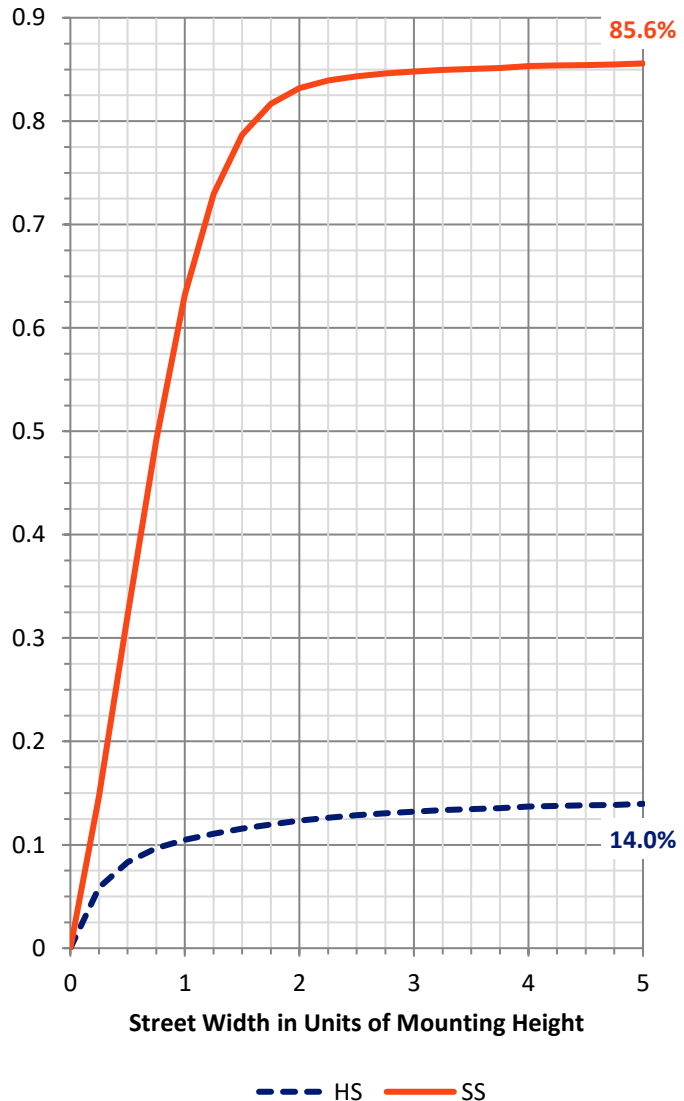
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2406.8	0.0	2406.8
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	14511.3	0.0	14511.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	16918.1	0.0	16918.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.5	1.2
10°-20°	752.2	4.4
20°-30°	1398.4	8.3
30°-40°	2216.7	13.1
40°-50°	3065.9	18.1
50°-60°	3771.3	22.3
60°-70°	3509.3	20.7
70°-80°	1761.0	10.4
80°-90°	242.8	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°	16918.1	100.0
0°-180°	16918.1	100.0

Coefficient of Utilization



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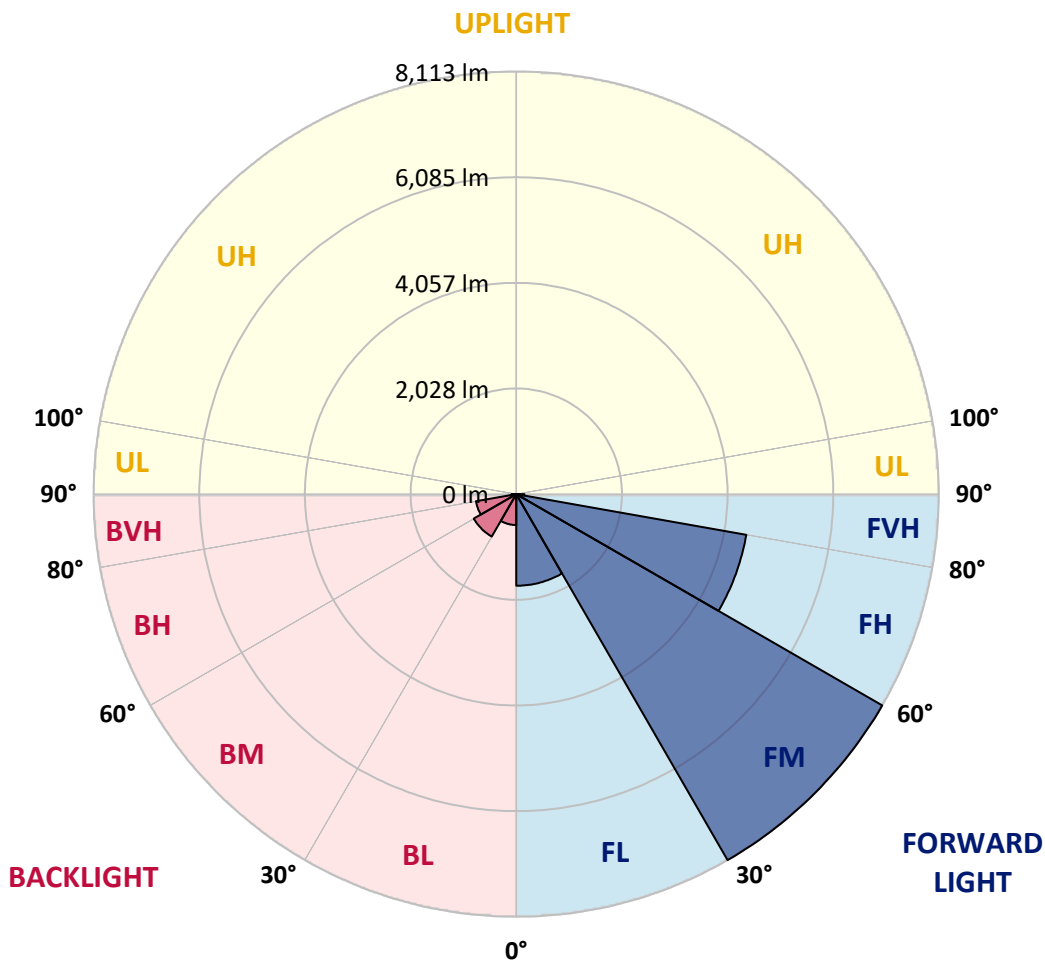
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1758.4	10.4			
FM (30°-60°)	8113.4	48.0			
FH (60°-80°)	4484.8	26.5			G2/5000
FVH (80°-90°)	154.7	0.9			G2/225
BL (0°-30°)	592.7	3.5	B2/1000		
BM (30°-60°)	940.5	5.6	B1/1000		
BH (60°-80°)	785.5	4.6	B2/1000		G2/1000
BVH (80°-90°)	88.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1731.3	1731.3	1731.3	1731.3	1731.3	1731.3	1731.3	1731.3	1731.3	1731.3	1731.3
2.5°	2402.2	2373.3	2344.4	2282.7	2261.5	2203.7	2097.6	1980.0	1883.6	1870.1	1802.6
5°	2980.6	2938.2	2928.6	2893.9	2784.0	2672.2	2498.6	2309.7	2074.5	2091.8	1860.5
7.5°	3414.4	3389.4	3337.3	3304.5	3239.0	3090.5	2911.2	2660.6	2361.8	2303.9	1989.7
10°	3742.2	3707.5	3705.5	3676.6	3641.9	3489.6	3352.7	3015.3	2631.7	2552.6	2147.7
12.5°	3908.0	3902.2	4004.4	4004.4	3990.9	3927.3	3692.0	3383.6	2888.1	2861.1	2330.9
15°	4087.3	4039.1	4127.8	4195.2	4229.9	4262.7	4068.0	3742.2	3215.8	3163.8	2527.6
17.5°	4087.3	4083.4	4172.1	4283.9	4465.2	4507.6	4401.5	4071.9	3487.7	3449.1	2743.5
20°	4017.9	4073.8	4135.5	4285.9	4482.5	4654.1	4684.9	4409.2	3788.4	3757.6	2988.3
22.5°	4341.8	4287.8	4351.4	4409.2	4561.6	4821.8	4906.7	4706.1	4104.6	3987.0	3210.1
25°	4885.4	4848.8	4802.5	4717.7	4781.3	4895.1	5024.3	4925.9	4374.5	4243.4	3424.1
27.5°	5415.6	5417.6	5317.3	5132.2	4995.3	5018.5	5170.8	5118.7	4602.0	4544.2	3570.6
30°	6169.5	6123.2	6011.4	5760.7	5492.8	5273.0	5247.9	5298.0	4891.2	4779.4	3780.7
32.5°	6734.4	6744.0	6585.9	6225.4	5859.1	5679.8	5460.0	5481.2	5074.4	4991.5	3948.5
35°	7191.3	7179.7	7067.9	6769.1	6335.3	6119.3	5822.4	5701.0	5500.5	5369.4	4204.9
37.5°	7684.8	7590.4	7409.1	7071.8	6794.1	6495.3	6206.1	5932.3	5783.9	5625.8	4424.7
40°	7883.4	7883.4	7640.5	7486.3	7156.6	6931.0	6744.0	6236.9	6129.0	6098.1	4706.1
42.5°	7742.7	7829.4	7729.2	7553.7	7418.8	7133.4	7083.3	6553.1	6555.1	6493.4	5043.5
45°	7729.2	7609.7	7526.8	7571.1	7507.5	7492.1	7619.3	6990.8	7002.3	6994.6	5496.6
47.5°	7341.7	7287.7	7411.1	7484.3	7536.4	7775.5	8141.8	7513.3	7596.2	7538.3	6019.1
50°	6956.1	6946.4	7023.6	7289.6	7515.2	7908.5	8639.2	8319.1	8591.0	8587.1	6965.7
52.5°	5899.6	6001.7	6304.4	6867.4	7424.6	8089.7	9015.1	9348.7	9867.3	10008.0	7750.4
55°	4889.3	4835.3	5282.6	6100.1	7029.3	8161.1	9435.4	9967.5	10731.0	10833.2	8556.3
57.5°	3803.9	3904.1	4256.9	5041.6	6211.9	7808.2	9743.9	10578.7	11706.6	11785.6	9491.3
60°	2838.0	2851.5	3239.0	3871.3	5124.5	7012.0	9844.2	11205.3	12824.8	13050.4	10470.7
62.5°	1785.3	1866.3	2161.2	2784.0	3857.8	5897.6	9394.9	11585.1	13997.0	14056.8	11457.9
65°	962.1	1014.1	1235.8	1627.2	2695.3	4461.3	8203.5	11357.6	14548.4	14903.1	11897.4
67°	711.4	721.1	823.2	1039.2	1802.6	3358.5	6840.4	10534.4	14799.0	15057.4	11914.8
67.5°	667.1	680.6	761.5	933.1	1598.3	3092.4	6483.7	10241.3	14687.2	14964.8	11779.8
70°	570.7	574.5	593.8	642.0	896.5	1860.5	4415.0	8392.4	13613.3	13879.4	10833.2
72.5°	507.1	510.9	518.6	528.3	607.3	1075.8	2685.6	6458.7	11831.9	12256.0	9346.7
75°	445.4	458.9	462.7	455.0	516.7	699.8	1428.6	4746.6	9651.4	9857.7	7268.4
77.5°	377.9	383.7	391.4	399.1	460.8	522.5	686.4	3204.3	6624.5	6499.2	3931.1
80°	318.1	320.0	325.8	331.6	399.1	399.1	389.4	1731.3	2893.9	2766.6	1328.4
82.5°	227.5	241.0	254.5	269.9	331.6	268.0	254.5	771.2	915.8	871.4	449.2
85°	88.7	108.0	167.7	185.1	210.1	144.6	169.7	333.5	381.7	377.9	167.7
87.5°	15.4	17.4	46.3	71.3	77.1	50.1	81.0	119.5	142.7	154.2	61.7
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°	1731.3	1731.3	1731.3	1731.3	1731.3	1731.3	1731.3	1731.3	1731.3	1731.3	1731.3
2.5°	1746.7	1687.0	1615.6	1544.3	1498.0	1424.8	1419.0	1374.6	1368.9	1353.4	1361.1
5°	1760.2	1688.9	1544.3	1430.5	1378.5	1336.1	1345.7	1326.4	1320.7	1311.0	1295.6
7.5°	1866.3	1725.5	1509.6	1411.3	1372.7	1353.4	1353.4	1330.3	1312.9	1324.5	1336.1
10°	1935.7	1742.9	1536.6	1438.3	1407.4	1365.0	1380.4	1351.5	1361.1	1338.0	1338.0
12.5°	2047.5	1841.2	1592.5	1478.7	1428.6	1390.1	1405.5	1372.7	1365.0	1366.9	1361.1
15°	2197.9	1906.8	1617.6	1501.9	1467.2	1419.0	1407.4	1378.5	1349.6	1339.9	1351.5
17.5°	2338.6	1987.7	1634.9	1515.4	1459.5	1405.5	1392.0	1355.4	1345.7	1316.8	1293.7
20°	2506.3	2084.1	1658.0	1526.9	1430.5	1376.6	1341.9	1305.2	1272.5	1255.1	1262.8
22.5°	2618.2	2134.3	1669.6	1503.8	1388.1	1338.0	1264.7	1239.7	1193.4	1174.1	1158.7
25°	2801.3	2195.9	1640.7	1440.2	1312.9	1232.0	1166.4	1131.7	1098.9	1073.9	1066.2
27.5°	2847.6	2242.2	1573.2	1332.2	1193.4	1108.6	1052.7	1010.3	989.0	950.5	942.8
30°	2982.6	2195.9	1473.0	1201.1	1079.7	992.9	937.0	906.1	856.0	846.4	825.2
32.5°	3069.3	2209.4	1345.7	1073.9	948.6	871.4	834.8	804.0	790.5	744.2	732.6
35°	3213.9	2163.2	1216.5	956.3	840.6	780.8	750.0	740.3	696.0	674.8	655.5
37.5°	3306.5	2136.2	1087.4	823.2	723.0	697.9	707.6	667.1	613.1	572.6	559.1
40°	3468.4	2126.5	940.8	713.3	642.0	636.2	667.1	590.0	491.6	456.9	437.6
42.5°	3701.7	2061.0	827.1	615.0	578.4	603.5	609.2	491.6	435.7	406.8	393.3
45°	3925.3	2074.5	715.3	509.0	503.2	539.8	526.3	416.4	383.7	362.5	374.0
47.5°	4355.3	2142.0	605.4	424.2	453.1	487.8	408.7	372.1	341.2	325.8	327.8
50°	5020.4	2207.5	509.0	387.5	428.0	441.5	350.9	337.4	335.5	304.6	302.7
52.5°	5419.5	2182.4	491.6	433.8	458.9	441.5	381.7	372.1	356.7	343.2	327.8
55°	6053.8	2255.7	528.3	507.1	520.5	424.2	428.0	424.2	412.6	377.9	387.5
57.5°	6558.9	2303.9	576.5	566.8	559.1	441.5	447.3	449.2	441.5	426.1	439.6
60°	7253.0	2400.3	626.6	628.5	630.4	480.1	489.7	501.3	499.3	493.6	497.4
62.5°	7679.1	2356.0	682.5	713.3	703.7	559.1	557.2	564.9	564.9	574.5	580.3
65°	7615.4	2192.1	711.4	788.5	738.4	616.9	616.9	620.8	622.7	642.0	643.9
67°	7233.7	1899.0	696.0	800.1	738.4	640.1	640.1	643.9	630.4	680.6	665.1
67.5°	7056.3	1812.3	682.5	790.5	732.6	638.2	638.2	640.1	628.5	676.7	661.3
70°	6136.7	1345.7	588.0	699.8	678.6	620.8	620.8	609.2	599.6	663.2	649.7
72.5°	5238.3	977.5	472.4	595.7	613.1	597.7	601.5	572.6	545.6	590.0	578.4
75°	4012.1	719.1	368.2	458.9	518.6	559.1	584.2	510.9	476.2	487.8	466.6
77.5°	2238.4	468.5	291.1	339.3	395.2	520.5	561.0	460.8	389.4	376.0	376.0
80°	759.6	273.8	214.0	252.6	271.8	460.8	524.4	374.0	306.5	293.0	283.4
82.5°	287.3	167.7	146.5	173.5	173.5	364.4	428.0	287.3	231.4	298.8	304.6
85°	131.1	100.3	96.4	100.3	100.3	223.6	302.7	187.0	208.2	179.3	158.1
87.5°	52.1	48.2	44.3	42.4	34.7	38.6	104.1	50.1	94.5	25.1	23.1
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)