

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: P476950

Luminaire Tested: **IFLD-S-SA3D-735-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476950
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-735-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

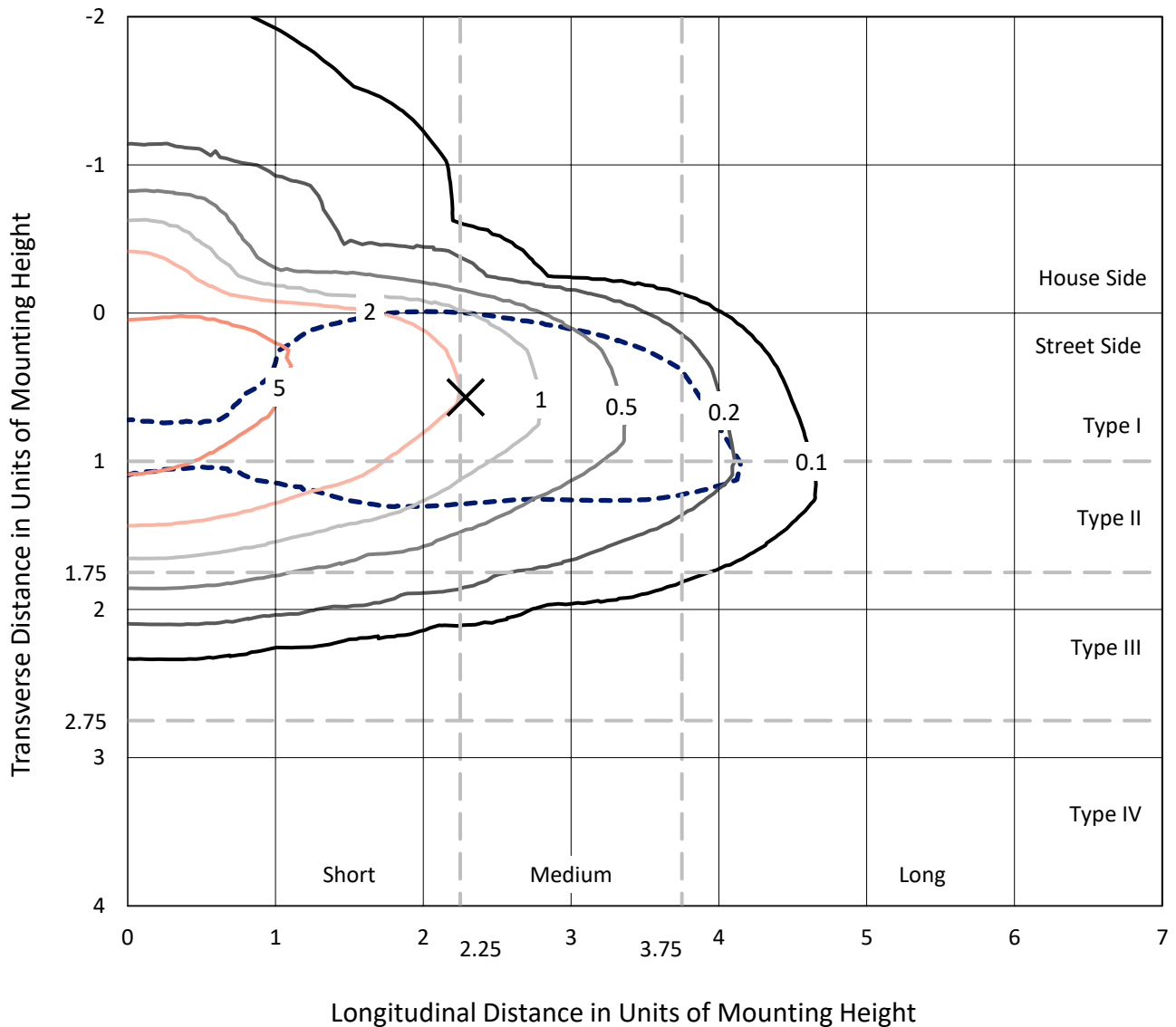
Lumens per Lamp: N/A
Luminaire Lumens: 23116.9 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 184.1
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

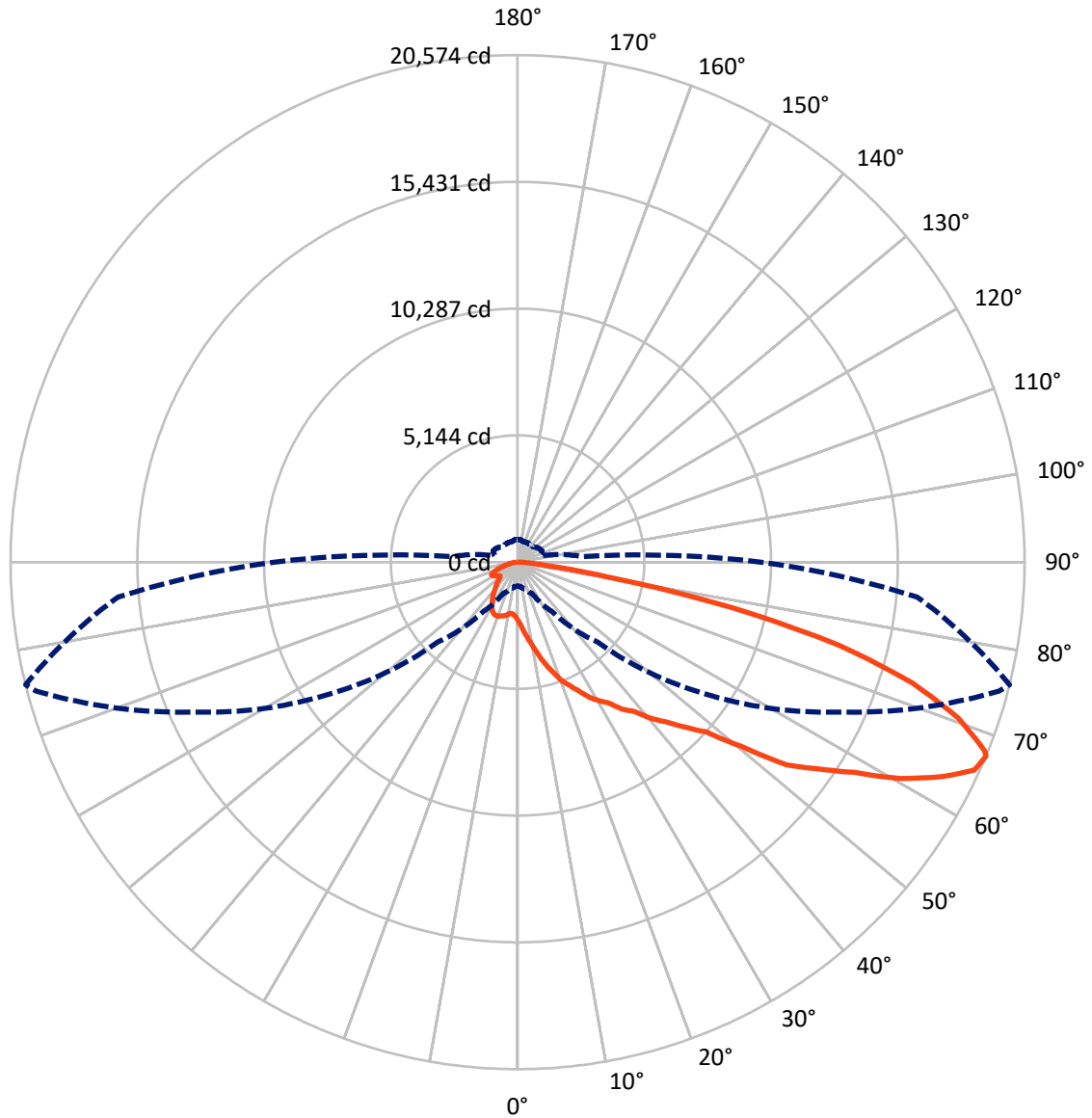
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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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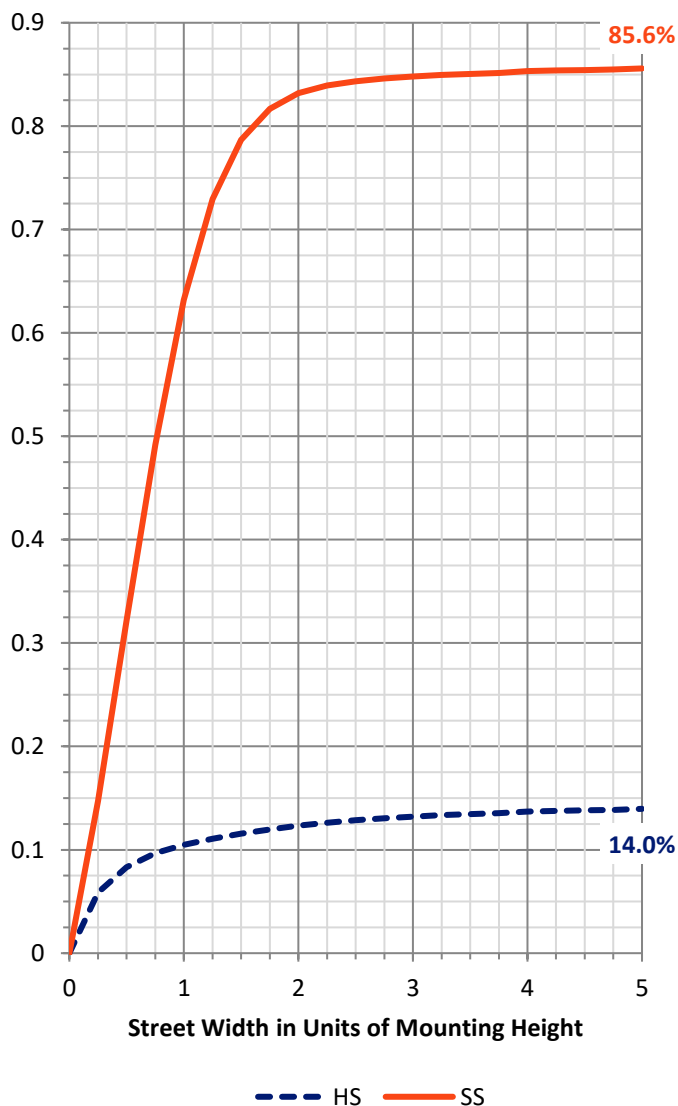
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3288.7	0.0	3288.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	19828.2	0.0	19828.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	23116.9	0.0	23116.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.0	1.2
10°-20°	1027.7	4.4
20°-30°	1910.7	8.3
30°-40°	3028.9	13.1
40°-50°	4189.3	18.1
50°-60°	5153.1	22.3
60°-70°	4795.2	20.7
70°-80°	2406.2	10.4
80°-90°	331.8	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°	23116.9	100.0
0°-180°	23116.9	100.0

Coefficient of Utilization



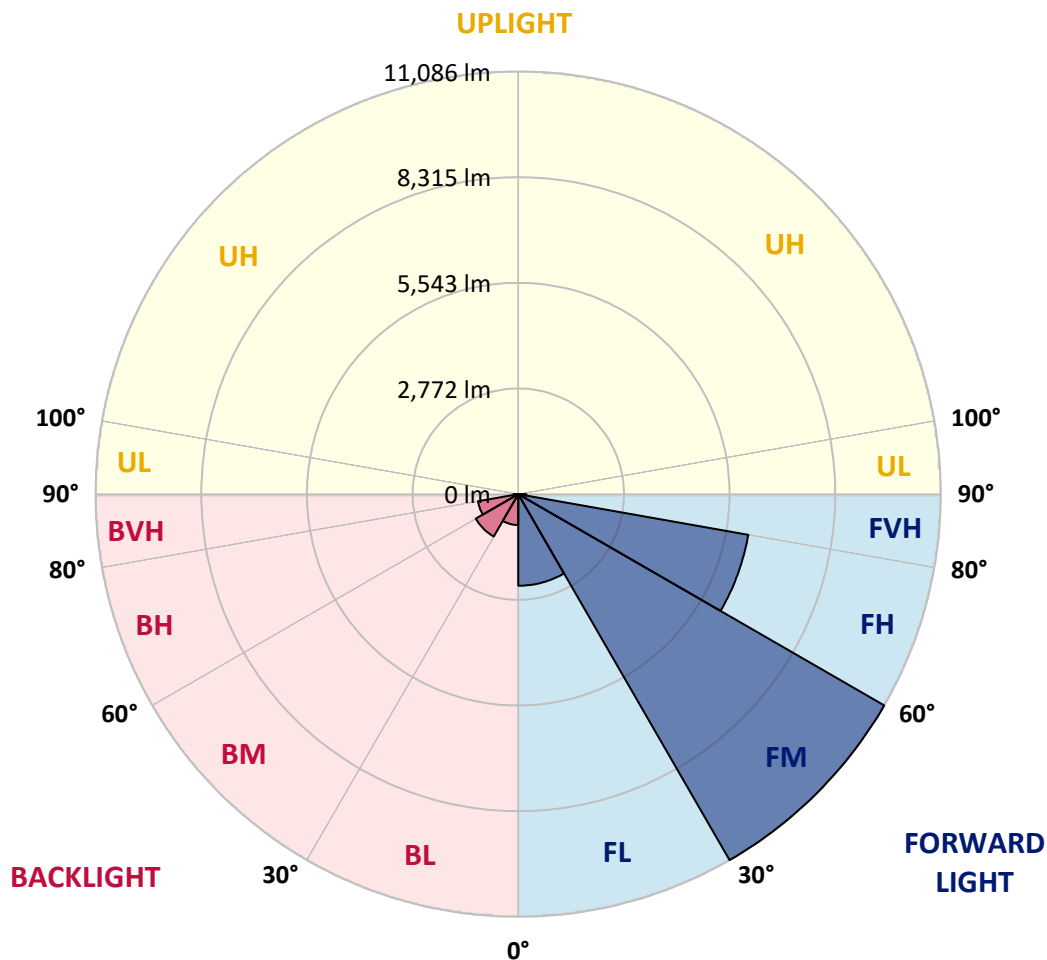
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2402.6	10.4			
FM (30°-60°)	11086.1	48.0			
FH (60°-80°)	6128.1	26.5			G3/7500
FVH (80°-90°)	211.4	0.9			G2/225
BL (0°-30°)	809.9	3.5	B2/1000		
BM (30°-60°)	1285.2	5.6	B2/2500		
BH (60°-80°)	1073.3	4.6	B3/2500		G3/2500
BVH (80°-90°)	120.4	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-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2365.7	2365.7	2365.7	2365.7	2365.7	2365.7	2365.7	2365.7	2365.7	2365.7	2365.7
2.5°	3282.4	3242.9	3203.4	3119.1	3090.1	3011.1	2866.2	2705.5	2573.8	2555.3	2463.1
5°	4072.7	4014.8	4001.6	3954.2	3804.0	3651.2	3414.1	3156.0	2834.6	2858.3	2542.2
7.5°	4665.5	4631.2	4560.1	4515.3	4425.7	4222.9	3977.9	3635.4	3227.1	3148.1	2718.7
10°	5113.3	5065.9	5063.3	5023.7	4976.3	4768.2	4581.2	4120.1	3595.9	3487.9	2934.7
12.5°	5339.9	5332.0	5471.6	5471.6	5453.1	5366.2	5044.8	4623.3	3946.3	3909.4	3184.9
15°	5584.9	5519.0	5640.2	5732.4	5779.8	5824.6	5558.5	5113.3	4394.1	4323.0	3453.7
17.5°	5584.9	5579.6	5700.8	5853.6	6101.2	6159.1	6014.3	5563.8	4765.6	4712.9	3748.7
20°	5490.0	5566.4	5650.7	5856.2	6124.9	6359.4	6401.5	6024.8	5176.5	5134.4	4083.3
22.5°	5932.6	5858.8	5945.8	6024.8	6232.9	6588.6	6704.5	6430.5	5608.6	5447.9	4386.2
25°	6675.5	6625.4	6562.2	6446.3	6533.2	6688.7	6865.2	6730.8	5977.4	5798.2	4678.6
27.5°	7399.9	7402.6	7265.6	7012.7	6825.6	6857.3	7065.4	6994.2	6288.2	6209.2	4878.8
30°	8430.0	8366.7	8214.0	7871.5	7505.3	7205.0	7170.7	7239.2	6683.4	6530.6	5166.0
32.5°	9201.8	9215.0	8999.0	8506.4	8005.8	7760.8	7460.5	7489.5	6933.7	6820.4	5395.2
35°	9826.2	9810.4	9657.6	9249.3	8656.5	8361.5	7955.8	7789.8	7515.8	7336.7	5745.6
37.5°	10500.6	10371.5	10123.9	9662.9	9283.5	8875.2	8480.0	8105.9	7903.1	7687.1	6045.9
40°	10771.9	10771.9	10440.0	10229.2	9778.8	9470.5	9215.0	8522.2	8374.7	8332.5	6430.5
42.5°	10579.6	10698.2	10561.2	10321.4	10137.0	9747.2	9678.7	8954.2	8956.8	8872.5	6891.5
45°	10561.2	10397.8	10284.6	10345.2	10258.2	10237.1	10411.0	9552.2	9568.0	9557.5	7510.6
47.5°	10031.7	9957.9	10126.5	10226.6	10297.7	10624.4	11124.9	10266.1	10379.4	10300.4	8224.5
50°	9504.8	9491.6	9597.0	9960.5	10268.8	10806.2	11804.6	11367.3	11738.7	11733.5	9518.0
52.5°	8061.2	8200.8	8614.4	9383.6	10144.9	11053.8	12318.3	12774.0	13482.7	13675.0	10590.2
55°	6680.8	6607.0	7218.2	8335.1	9604.9	11151.3	12892.6	13619.7	14662.9	14802.5	11691.3
57.5°	5197.6	5334.6	5816.7	6888.9	8487.9	10669.2	13314.1	14454.8	15995.9	16103.9	12969.0
60°	3877.8	3896.2	4425.7	5289.8	7002.1	9581.2	13451.1	15310.9	17523.8	17832.0	14307.2
62.5°	2439.4	2550.1	2953.1	3804.0	5271.4	8058.5	12837.3	15829.9	19125.5	19207.2	15656.0
65°	1314.5	1385.7	1688.6	2223.4	3682.8	6095.9	11209.2	15519.1	19878.9	20363.7	16256.7
67°	972.1	985.3	1124.9	1419.9	2463.1	4589.1	9346.7	14394.2	20221.4	20574.4	16280.4
67.5°	911.5	929.9	1040.6	1275.0	2183.9	4225.5	8859.4	13993.8	20068.6	20448.0	16096.0
70°	779.8	785.0	811.4	877.2	1225.0	2542.2	6032.7	11467.4	18601.3	18964.8	14802.5
72.5°	692.8	698.1	708.6	721.8	829.8	1470.0	3669.7	8825.1	16167.1	16746.7	12771.4
75°	608.5	627.0	632.2	621.7	706.0	956.3	1952.1	6485.8	13187.6	13469.5	9931.6
77.5°	516.3	524.2	534.8	545.3	629.6	713.9	937.8	4378.3	9051.7	8880.4	5371.5
80°	434.7	437.3	445.2	453.1	545.3	545.3	532.1	2365.7	3954.2	3780.3	1815.1
82.5°	310.9	329.3	347.7	368.8	453.1	366.2	347.7	1053.7	1251.3	1190.7	613.8
85°	121.2	147.5	229.2	252.9	287.1	197.6	231.8	455.7	521.6	516.3	229.2
87.5°	21.1	23.7	63.2	97.5	105.4	68.5	110.6	163.3	194.9	210.7	84.3
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°	2365.7	2365.7	2365.7	2365.7	2365.7	2365.7	2365.7	2365.7	2365.7	2365.7	2365.7
2.5°	2386.7	2305.1	2207.6	2110.1	2046.9	1946.8	1938.9	1878.3	1870.4	1849.3	1859.9
5°	2405.2	2307.7	2110.1	1954.7	1883.6	1825.6	1838.8	1812.4	1804.5	1791.4	1770.3
7.5°	2550.1	2357.8	2062.7	1928.4	1875.7	1849.3	1849.3	1817.7	1794.0	1809.8	1825.6
10°	2644.9	2381.5	2099.6	1965.2	1923.1	1865.1	1886.2	1846.7	1859.9	1828.3	1828.3
12.5°	2797.7	2515.8	2176.0	2020.6	1952.1	1899.4	1920.5	1875.7	1865.1	1867.8	1859.9
15°	3003.2	2605.4	2210.2	2052.2	2004.8	1938.9	1923.1	1883.6	1844.1	1830.9	1846.7
17.5°	3195.5	2716.0	2233.9	2070.6	1994.2	1920.5	1902.0	1852.0	1838.8	1799.3	1767.7
20°	3424.7	2847.8	2265.6	2086.4	1954.7	1880.9	1833.5	1783.5	1738.7	1715.0	1725.5
22.5°	3577.5	2916.2	2281.4	2054.8	1896.7	1828.3	1728.1	1693.9	1630.7	1604.3	1583.3
25°	3827.7	3000.5	2241.8	1967.9	1794.0	1683.4	1593.8	1546.4	1501.6	1467.3	1456.8
27.5°	3891.0	3063.8	2149.6	1820.3	1630.7	1514.8	1438.4	1380.4	1351.4	1298.7	1288.2
30°	4075.4	3000.5	2012.7	1641.2	1475.2	1356.7	1280.3	1238.2	1169.7	1156.5	1127.5
32.5°	4193.9	3019.0	1838.8	1467.3	1296.1	1190.7	1140.7	1098.5	1080.1	1016.9	1001.1
35°	4391.5	2955.8	1662.3	1306.6	1148.6	1066.9	1024.8	1011.6	951.0	922.0	895.7
37.5°	4517.9	2918.9	1485.8	1124.9	987.9	953.6	966.8	911.5	837.7	782.4	764.0
40°	4739.2	2905.7	1285.6	974.7	877.2	869.3	911.5	806.1	671.8	624.3	598.0
42.5°	5058.0	2816.1	1130.1	840.4	790.3	824.6	832.5	671.8	595.4	555.9	537.4
45°	5363.6	2834.6	977.4	695.5	687.6	737.6	719.2	569.0	524.2	495.3	511.1
47.5°	5951.0	2926.8	827.2	579.6	619.1	666.5	558.5	508.4	466.3	445.2	447.8
50°	6859.9	3016.3	695.5	529.5	584.8	603.3	479.5	461.0	458.4	416.2	413.6
52.5°	7405.2	2982.1	671.8	592.7	627.0	603.3	521.6	508.4	487.4	468.9	447.8
55°	8271.9	3082.2	721.8	692.8	711.3	579.6	584.8	579.6	563.8	516.3	529.5
57.5°	8962.1	3148.1	787.7	774.5	764.0	603.3	611.2	613.8	603.3	582.2	600.6
60°	9910.5	3279.8	856.2	858.8	861.4	656.0	669.1	684.9	682.3	674.4	679.7
62.5°	10492.7	3219.2	932.6	974.7	961.5	764.0	761.3	771.9	771.9	785.0	792.9
65°	10405.7	2995.3	972.1	1077.5	1009.0	843.0	843.0	848.3	850.9	877.2	879.9
67°	9884.1	2594.9	951.0	1093.3	1009.0	874.6	874.6	879.9	861.4	929.9	908.9
67.5°	9641.8	2476.3	932.6	1080.1	1001.1	872.0	872.0	874.6	858.8	924.7	903.6
70°	8385.2	1838.8	803.5	956.3	927.3	848.3	848.3	832.5	819.3	906.2	887.8
72.5°	7157.6	1335.6	645.4	814.0	837.7	816.7	821.9	782.4	745.5	806.1	790.3
75°	5482.1	982.6	503.2	627.0	708.6	764.0	798.2	698.1	650.7	666.5	637.5
77.5°	3058.5	640.2	397.8	463.6	540.0	711.3	766.6	629.6	532.1	513.7	513.7
80°	1037.9	374.1	292.4	345.1	371.4	629.6	716.5	511.1	418.9	400.4	387.3
82.5°	392.5	229.2	200.2	237.1	237.1	497.9	584.8	392.5	316.1	408.3	416.2
85°	179.1	137.0	131.7	137.0	137.0	305.6	413.6	255.5	284.5	245.0	216.0
87.5°	71.1	65.9	60.6	58.0	47.4	52.7	142.3	68.5	129.1	34.2	31.6
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)