

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: P476860

Luminaire Tested: **IFLD-L-SA8A-722-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476860
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-722-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

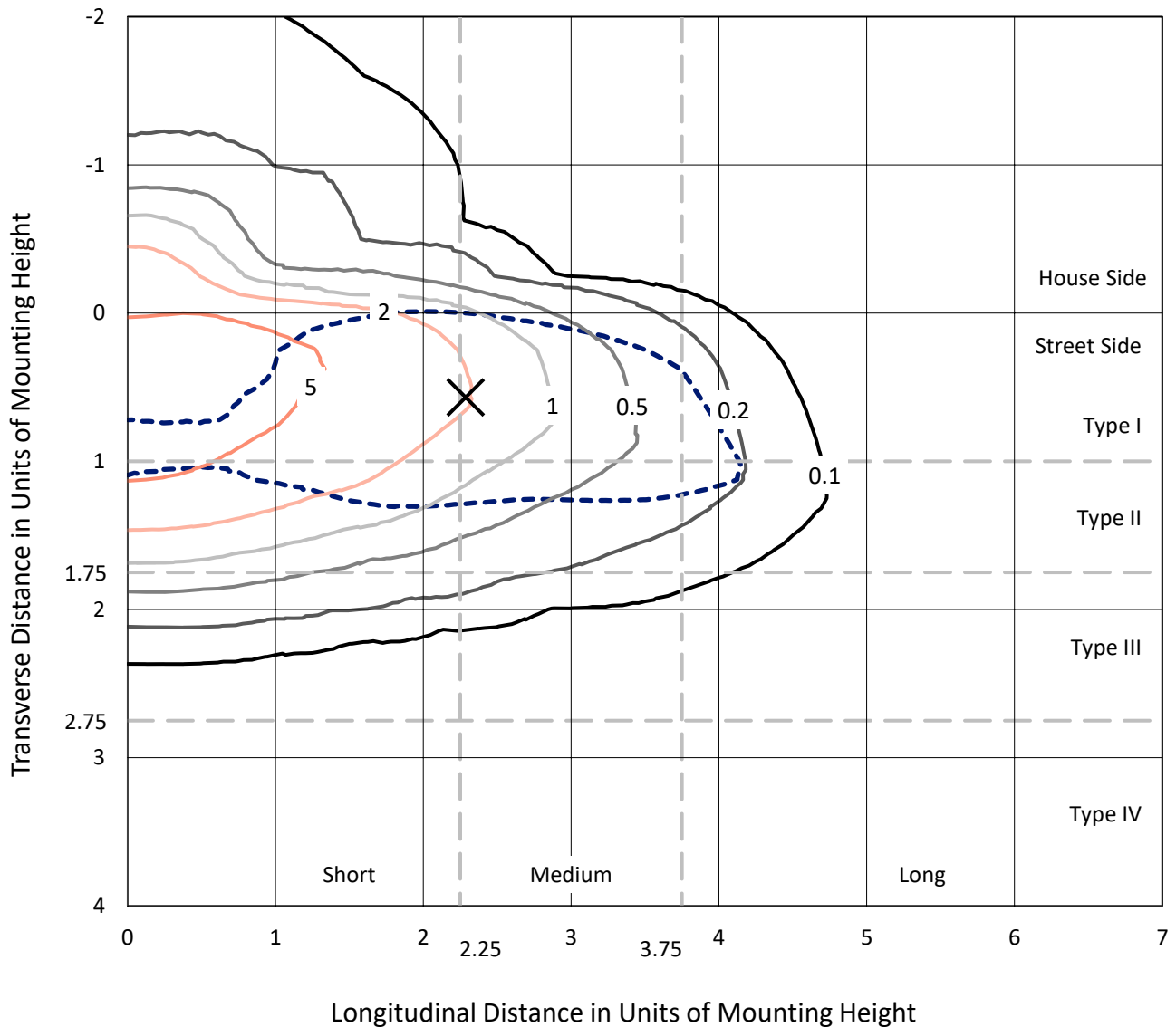
Lumens per Lamp: N/A
Luminaire Lumens: 25375 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 247.8
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

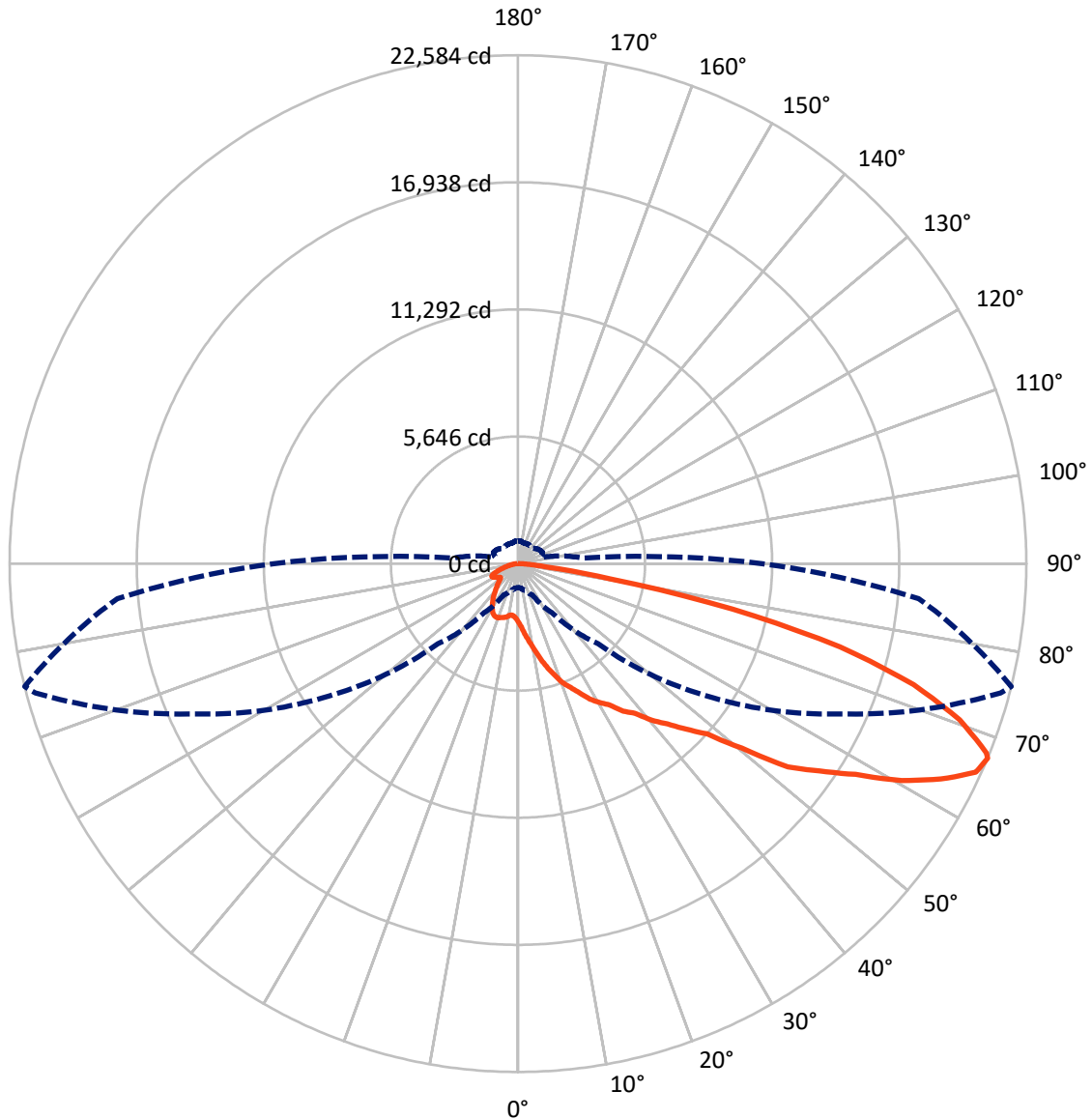
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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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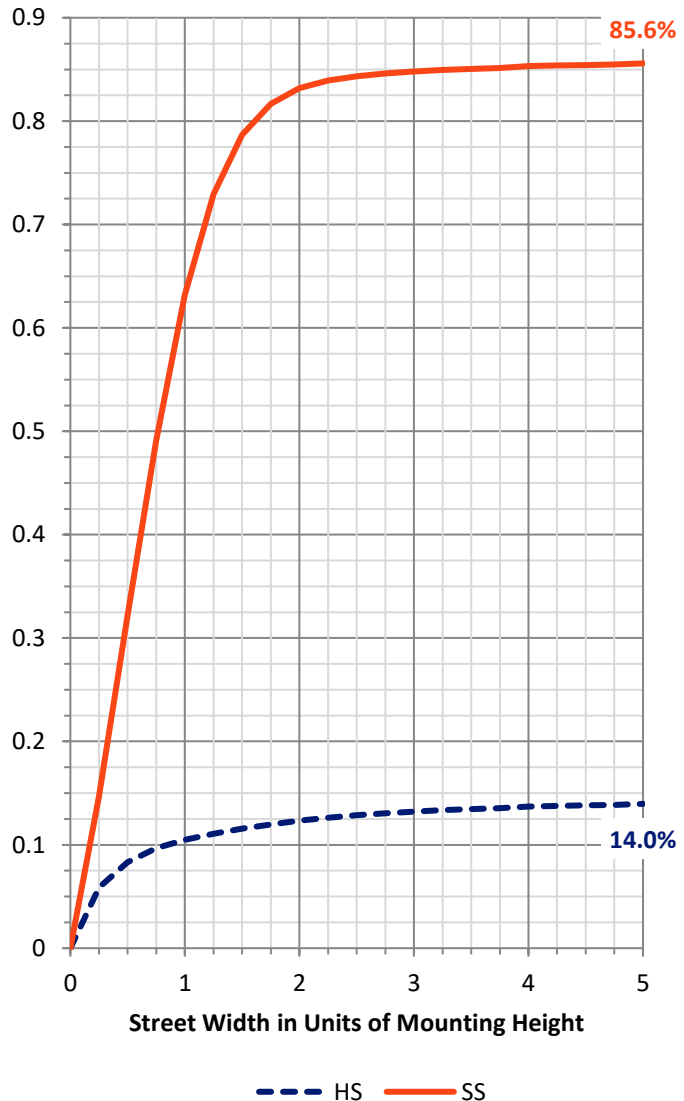
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3609.9	0.0	3609.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	21765.1	0.0	21765.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	25375.0	0.0	25375.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.8	1.2
10°-20°	1128.1	4.4
20°-30°	2097.4	8.3
30°-40°	3324.8	13.1
40°-50°	4598.5	18.1
50°-60°	5656.4	22.3
60°-70°	5263.6	20.7
70°-80°	2641.2	10.4
80°-90°	364.2	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°	25375.0	100.0
0°-180°	25375.0	100.0

Coefficient of Utilization



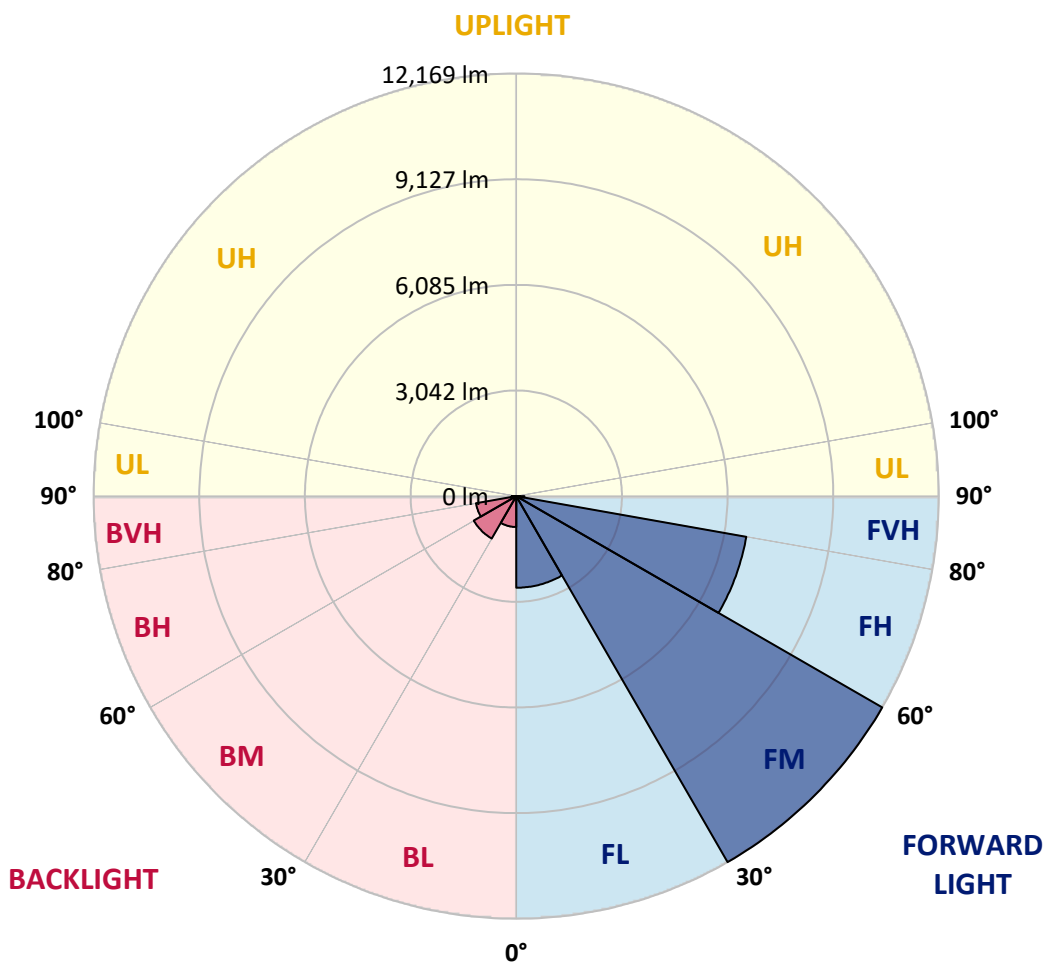
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2637.3	10.4			
FM (30°-60°)	12169.0	48.0			
FH (60°-80°)	6726.7	26.5			G3/7500
FVH (80°-90°)	232.0	0.9			G3/500
BL (0°-30°)	889.0	3.5	B2/1000		
BM (30°-60°)	1410.7	5.6	B2/2500		
BH (60°-80°)	1178.1	4.6	B3/2500		G3/2500
BVH (80°-90°)	132.2	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°	2596.7	2596.7	2596.7	2596.7	2596.7	2596.7	2596.7	2596.7	2596.7	2596.7	2596.7
2.5°	3603.0	3559.7	3516.3	3423.8	3392.0	3305.2	3146.2	2969.8	2825.2	2804.9	2703.7
5°	4470.6	4406.9	4392.5	4340.4	4175.6	4007.9	3747.6	3464.2	3111.5	3137.5	2790.5
7.5°	5121.2	5083.6	5005.5	4956.4	4858.0	4635.4	4366.5	3990.5	3542.3	3455.6	2984.2
10°	5612.8	5560.7	5557.8	5514.5	5462.4	5234.0	5028.7	4522.6	3947.2	3828.6	3221.3
12.5°	5861.5	5852.8	6006.0	6006.0	5985.8	5890.4	5537.6	5074.9	4331.8	4291.3	3496.1
15°	6130.4	6058.1	6191.1	6292.3	6344.4	6393.5	6101.5	5612.8	4823.3	4745.3	3791.0
17.5°	6130.4	6124.6	6257.6	6425.3	6697.2	6760.8	6601.7	6107.3	5231.1	5173.2	4114.9
20°	6026.3	6110.1	6202.7	6428.2	6723.2	6980.5	7026.8	6613.3	5682.2	5635.9	4482.1
22.5°	6512.1	6431.1	6526.5	6613.3	6841.7	7232.1	7359.4	7058.6	6156.4	5980.0	4814.7
25°	7327.5	7272.6	7203.2	7076.0	7171.4	7342.0	7535.7	7388.3	6561.2	6364.6	5135.6
27.5°	8122.8	8125.7	7975.3	7697.7	7492.4	7527.1	7755.5	7677.4	6902.5	6815.7	5355.4
30°	9253.4	9184.0	9016.3	8640.4	8238.4	7908.8	7871.2	7946.4	7336.2	7168.5	5670.6
32.5°	10100.7	10115.1	9878.0	9337.3	8787.9	8518.9	8189.3	8221.1	7610.9	7486.6	5922.2
35°	10786.0	10768.7	10600.9	10152.7	9502.1	9178.2	8732.9	8550.7	8250.0	8053.4	6306.8
37.5°	11526.3	11384.6	11112.8	10606.7	10190.3	9742.1	9308.4	8897.7	8675.1	8438.0	6636.4
40°	11824.1	11824.1	11459.8	11228.4	10734.0	10395.6	10115.1	9354.6	9192.7	9146.4	7058.6
42.5°	11613.0	11743.2	11592.8	11329.6	11127.2	10699.3	10624.1	9828.9	9831.8	9739.2	7564.7
45°	11592.8	11413.5	11289.2	11355.7	11260.2	11237.1	11428.0	10485.3	10502.6	10491.1	8244.2
47.5°	11011.6	10930.6	11115.7	11225.5	11303.6	11662.2	12211.6	11268.9	11393.3	11306.5	9027.9
50°	10433.2	10418.8	10534.4	10933.5	11271.8	11861.7	12957.7	12477.7	12885.4	12879.6	10447.7
52.5°	8848.6	9001.8	9455.8	10300.2	11135.9	12133.5	13521.6	14021.8	14799.7	15010.8	11624.6
55°	7333.3	7252.4	7923.2	9149.3	10543.1	12240.5	14151.9	14950.0	16095.2	16248.4	12833.3
57.5°	5705.3	5855.7	6384.9	7561.8	9317.0	11711.4	14614.6	15866.7	17558.4	17676.9	14235.8
60°	4256.6	4276.8	4858.0	5806.5	7686.1	10517.1	14765.0	16806.5	19235.5	19573.9	15704.8
62.5°	2677.7	2799.2	3241.6	4175.6	5786.3	8845.7	14091.2	17376.2	20993.7	21083.3	17185.3
65°	1443.0	1521.0	1853.6	2440.6	4042.6	6691.4	12304.1	17035.0	21820.7	22352.8	17844.6
67°	1067.0	1081.5	1234.8	1558.6	2703.7	5037.3	10259.7	15800.2	22196.6	22584.1	17870.7
67.5°	1000.5	1020.8	1142.2	1399.6	2397.2	4638.3	9724.8	15360.7	22028.9	22445.3	17668.2
70°	855.9	861.7	890.6	962.9	1344.6	2790.5	6622.0	12587.5	20418.2	20817.3	16248.4
72.5°	760.5	766.3	777.9	792.3	910.9	1613.6	4028.1	9687.2	17746.3	18382.5	14018.9
75°	668.0	688.2	694.0	682.4	775.0	1049.7	2142.7	7119.3	14475.8	14785.2	10901.7
77.5°	566.8	575.4	587.0	598.6	691.1	783.6	1029.4	4806.0	9935.9	9747.9	5896.2
80°	477.1	480.0	488.7	497.4	598.6	598.6	584.1	2596.7	4340.4	4149.6	1992.4
82.5°	341.2	361.5	381.7	404.8	497.4	401.9	381.7	1156.7	1373.6	1307.0	673.8
85°	133.0	161.9	251.6	277.6	315.2	216.9	254.5	500.3	572.6	566.8	251.6
87.5°	23.1	26.0	69.4	107.0	115.7	75.2	121.5	179.3	214.0	231.3	92.5
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°	2596.7	2596.7	2596.7	2596.7	2596.7	2596.7	2596.7	2596.7	2596.7	2596.7	2596.7
2.5°	2619.9	2530.2	2423.2	2316.2	2246.8	2137.0	2128.3	2061.8	2053.1	2030.0	2041.5
5°	2640.1	2533.1	2316.2	2145.6	2067.6	2003.9	2018.4	1989.5	1980.8	1966.4	1943.2
7.5°	2799.2	2588.1	2264.2	2116.7	2058.9	2030.0	2030.0	1995.3	1969.2	1986.6	2003.9
10°	2903.3	2614.1	2304.7	2157.2	2110.9	2047.3	2070.5	2027.1	2041.5	2006.8	2006.8
12.5°	3071.0	2761.6	2388.5	2217.9	2142.7	2084.9	2108.0	2058.9	2047.3	2050.2	2041.5
15°	3296.5	2859.9	2426.1	2252.6	2200.6	2128.3	2110.9	2067.6	2024.2	2009.7	2027.1
17.5°	3507.6	2981.3	2452.2	2272.9	2189.0	2108.0	2087.8	2032.9	2018.4	1975.0	1940.3
20°	3759.2	3125.9	2486.9	2290.2	2145.6	2064.7	2012.6	1957.7	1908.5	1882.5	1894.1
22.5°	3926.9	3201.1	2504.2	2255.5	2082.0	2006.8	1896.9	1859.4	1790.0	1761.0	1737.9
25°	4201.6	3293.6	2460.8	2160.1	1969.2	1847.8	1749.5	1697.4	1648.3	1610.7	1599.1
27.5°	4271.0	3363.0	2359.6	1998.2	1790.0	1662.7	1578.9	1515.2	1483.4	1425.6	1414.0
30°	4473.4	3293.6	2209.3	1801.5	1619.3	1489.2	1405.4	1359.1	1283.9	1269.5	1237.6
32.5°	4603.6	3313.9	2018.4	1610.7	1422.7	1307.0	1252.1	1205.8	1185.6	1116.2	1098.8
35°	4820.5	3244.5	1824.7	1434.3	1260.8	1171.1	1124.9	1110.4	1043.9	1012.1	983.2
37.5°	4959.3	3204.0	1630.9	1234.8	1084.4	1046.8	1061.3	1000.5	919.6	858.8	838.6
40°	5202.2	3189.5	1411.1	1069.9	962.9	954.3	1000.5	884.9	737.4	685.3	656.4
42.5°	5552.0	3091.2	1240.5	922.4	867.5	905.1	913.8	737.4	653.5	610.1	589.9
45°	5887.5	3111.5	1072.8	763.4	754.7	809.7	789.4	624.6	575.4	543.6	561.0
47.5°	6532.3	3212.7	908.0	636.2	679.5	731.6	613.0	558.1	511.8	488.7	491.6
50°	7530.0	3311.0	763.4	581.2	642.0	662.2	526.3	506.0	503.2	456.9	454.0
52.5°	8128.5	3273.4	737.4	650.6	688.2	662.2	572.6	558.1	535.0	514.7	491.6
55°	9079.9	3383.3	792.3	760.5	780.8	636.2	642.0	636.2	618.8	566.8	581.2
57.5°	9837.5	3455.6	864.6	850.2	838.6	662.2	670.9	673.8	662.2	639.1	659.3
60°	10878.5	3600.2	939.8	942.7	945.6	720.0	734.5	751.8	748.9	740.3	746.1
62.5°	11517.6	3533.6	1023.7	1069.9	1055.5	838.6	835.7	847.3	847.3	861.7	870.4
65°	11422.2	3287.9	1067.0	1182.7	1107.5	925.3	925.3	931.1	934.0	962.9	965.8
67°	10849.6	2848.3	1043.9	1200.1	1107.5	960.0	960.0	965.8	945.6	1020.8	997.6
67.5°	10583.6	2718.2	1023.7	1185.6	1098.8	957.2	957.2	960.0	942.7	1015.0	991.9
70°	9204.3	2018.4	882.0	1049.7	1017.9	931.1	931.1	913.8	899.3	994.7	974.5
72.5°	7856.7	1466.1	708.5	893.5	919.6	896.4	902.2	858.8	818.3	884.9	867.5
75°	6017.6	1078.6	552.3	688.2	777.9	838.6	876.2	766.3	714.2	731.6	699.8
77.5°	3357.3	702.7	436.6	508.9	592.8	780.8	841.5	691.1	584.1	563.9	563.9
80°	1139.3	410.6	321.0	378.8	407.7	691.1	786.5	561.0	459.8	439.5	425.1
82.5°	430.9	251.6	219.8	260.3	260.3	546.5	642.0	430.9	347.0	448.2	456.9
85°	196.6	150.4	144.6	150.4	150.4	335.4	454.0	280.5	312.3	268.9	237.1
87.5°	78.1	72.3	66.5	63.6	52.1	57.8	156.2	75.2	141.7	37.6	34.7
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)