

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: P476884

Luminaire Tested: **IFLD-S-SA6A-727-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476884
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-727-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

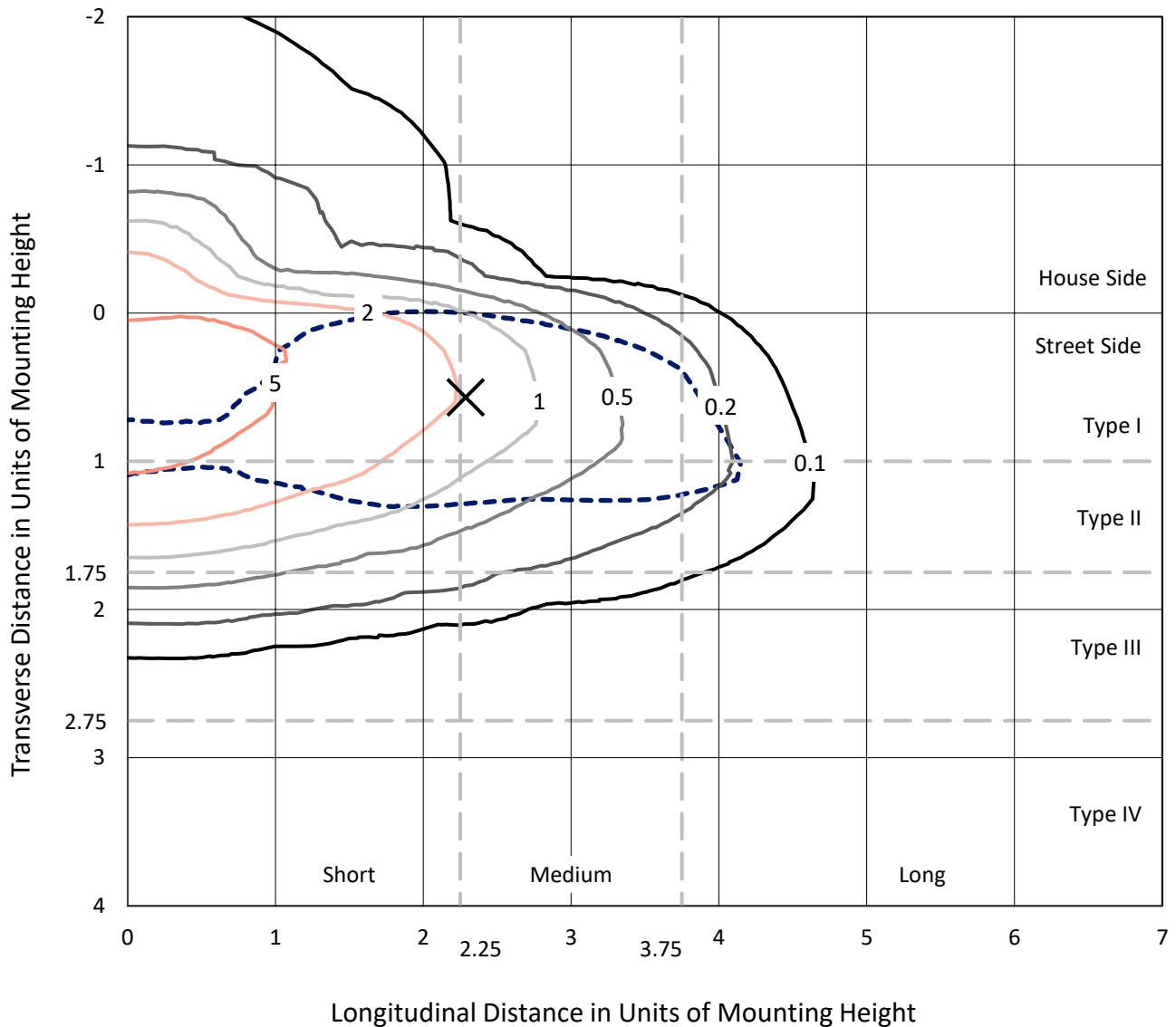
Lumens per Lamp: N/A
Luminaire Lumens: 22698.5 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 189.6
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

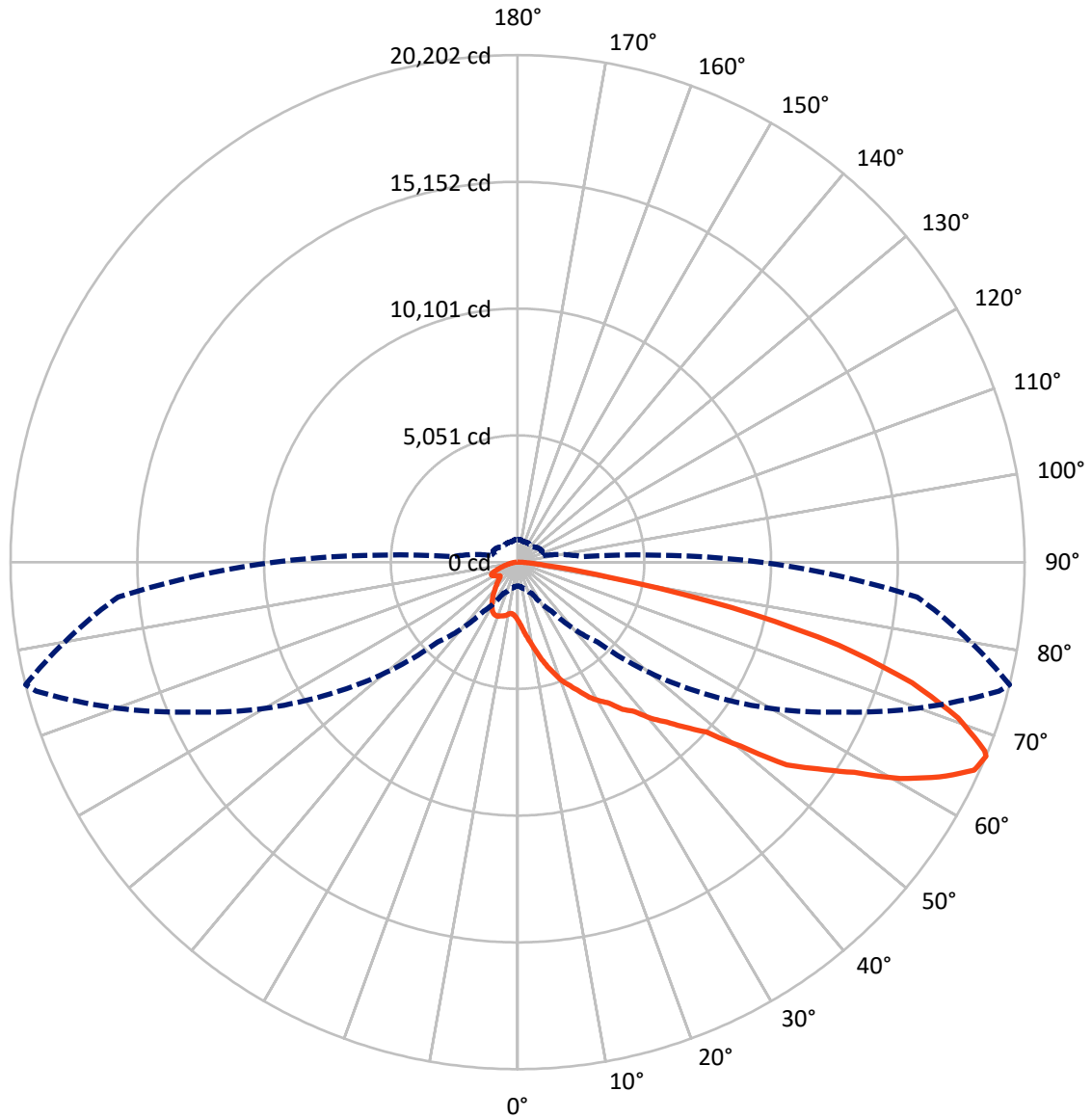
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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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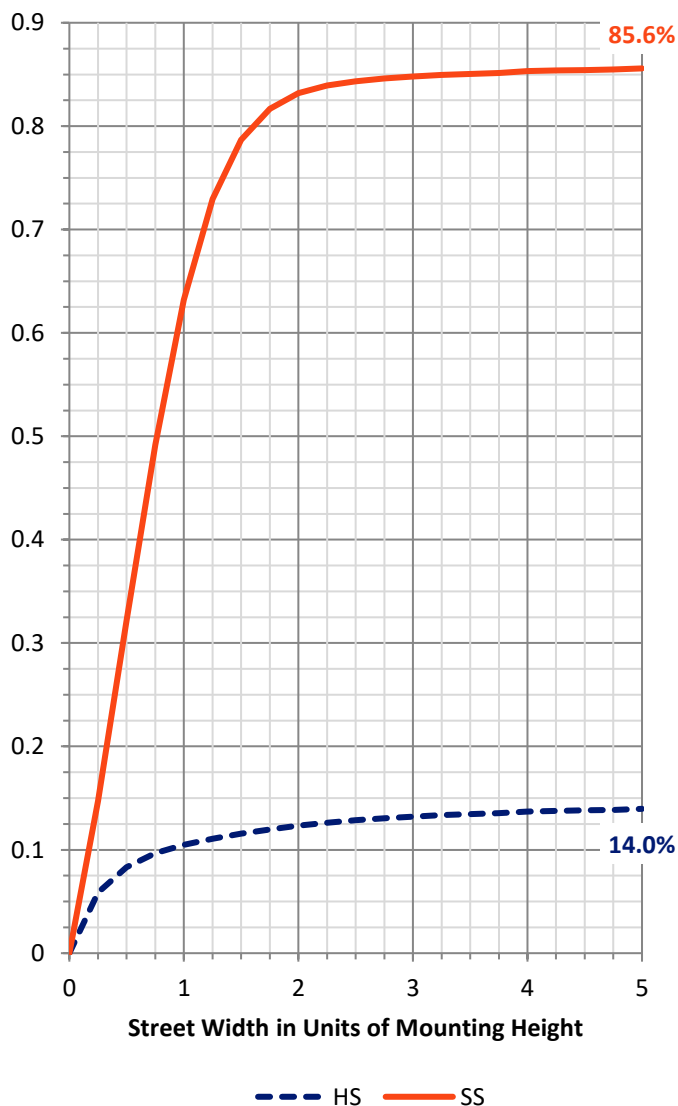
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3229.2	0.0	3229.2
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	19469.4	0.0	19469.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	22698.5	0.0	22698.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.1	1.2
10°-20°	1009.1	4.4
20°-30°	1876.1	8.3
30°-40°	2974.1	13.1
40°-50°	4113.5	18.1
50°-60°	5059.8	22.3
60°-70°	4708.4	20.7
70°-80°	2362.6	10.4
80°-90°	325.8	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°	22698.5	100.0
0°-180°	22698.5	100.0

Coefficient of Utilization



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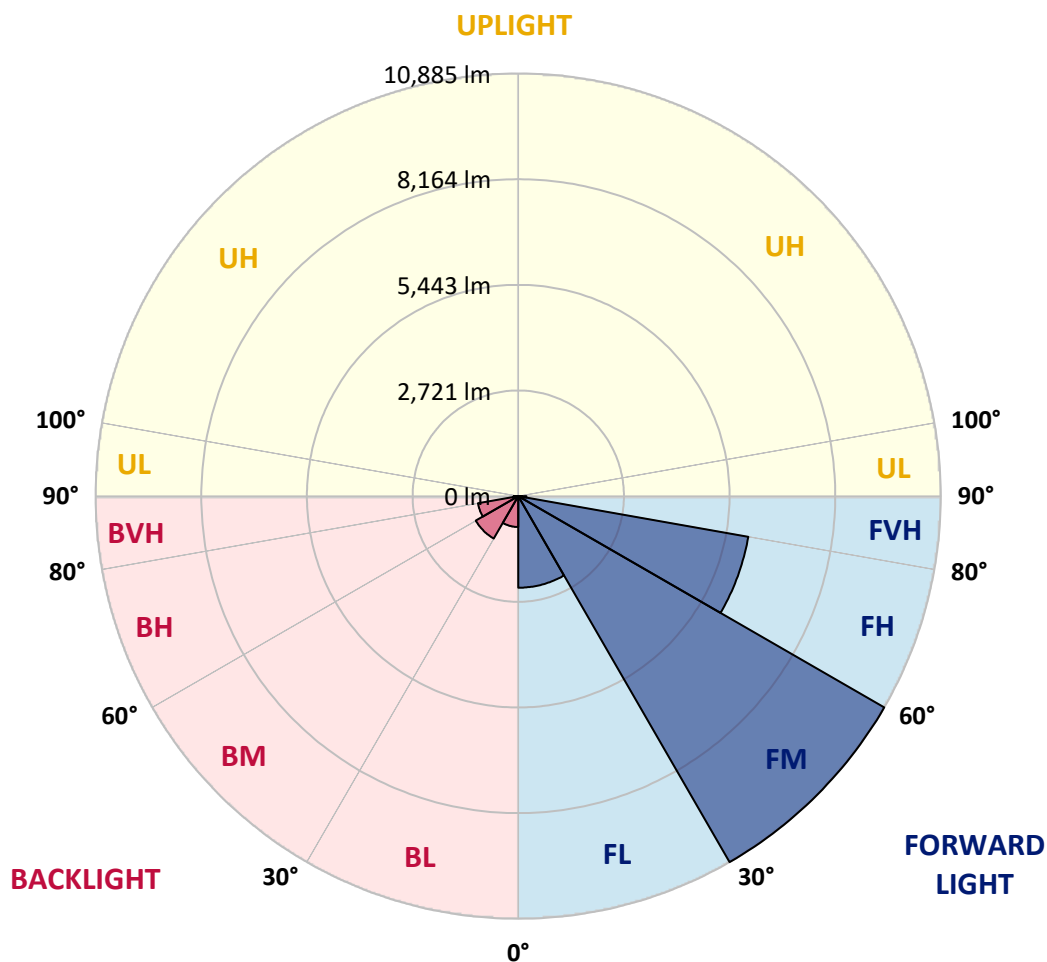
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2359.1	10.4			
FM (30°-60°)	10885.5	48.0			
FH (60°-80°)	6017.2	26.5			G3/7500
FVH (80°-90°)	207.6	0.9			G2/225
BL (0°-30°)	795.2	3.5	B2/1000		
BM (30°-60°)	1261.9	5.6	B2/2500		
BH (60°-80°)	1053.8	4.6	B3/2500		G3/2500
BVH (80°-90°)	118.2	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°	2322.8	2322.8	2322.8	2322.8	2322.8	2322.8	2322.8	2322.8	2322.8	2322.8	2322.8
2.5°	3223.0	3184.2	3145.4	3062.6	3034.2	2956.6	2814.3	2656.5	2527.2	2509.1	2418.6
5°	3999.0	3942.1	3929.2	3882.6	3735.2	3585.2	3352.4	3098.9	2783.3	2806.6	2496.2
7.5°	4581.0	4547.4	4477.6	4433.6	4345.6	4146.5	3905.9	3569.6	3168.7	3091.1	2669.5
10°	5020.8	4974.2	4971.6	4932.8	4886.3	4681.9	4498.3	4045.6	3530.8	3424.8	2881.6
12.5°	5243.2	5235.5	5372.6	5372.6	5354.5	5269.1	4953.5	4539.6	3874.9	3838.7	3127.3
15°	5483.8	5419.1	5538.1	5628.6	5675.2	5719.2	5457.9	5020.8	4314.6	4244.8	3391.2
17.5°	5483.8	5478.6	5597.6	5747.6	5990.8	6047.7	5905.4	5463.1	4679.3	4627.6	3680.9
20°	5390.7	5465.7	5548.5	5750.2	6014.1	6244.3	6285.7	5915.8	5082.8	5041.5	4009.4
22.5°	5825.2	5752.8	5838.2	5915.8	6120.1	6469.3	6583.1	6314.1	5507.1	5349.3	4306.8
25°	6554.7	6505.5	6443.4	6329.6	6415.0	6567.6	6740.9	6609.0	5869.2	5693.3	4594.0
27.5°	7266.0	7268.6	7134.1	6885.8	6702.1	6733.2	6937.5	6867.7	6174.4	6096.8	4790.6
30°	8277.4	8215.3	8065.3	7729.0	7369.5	7074.6	7041.0	7108.2	6562.4	6412.4	5072.5
32.5°	9035.3	9048.2	8836.1	8352.4	7861.0	7620.4	7325.5	7354.0	6808.2	6696.9	5297.5
35°	9648.4	9632.8	9482.8	9081.9	8499.9	8210.2	7811.8	7648.8	7379.8	7203.9	5641.6
37.5°	10310.6	10183.8	9940.7	9488.0	9115.5	8714.6	8326.6	7959.3	7760.1	7548.0	5936.5
40°	10577.0	10577.0	10251.1	10044.1	9601.8	9299.2	9048.2	8367.9	8223.1	8181.7	6314.1
42.5°	10388.2	10504.6	10370.0	10134.7	9953.6	9570.8	9503.5	8792.2	8794.8	8712.0	6766.8
45°	10370.0	10209.7	10098.4	10157.9	10072.6	10051.9	10222.6	9379.3	9394.9	9384.5	7374.7
47.5°	9850.1	9777.7	9943.2	10041.5	10111.4	10432.1	10923.6	10080.3	10191.6	10114.0	8075.7
50°	9332.8	9319.8	9423.3	9780.3	10082.9	10610.6	11591.0	11161.6	11526.3	11521.1	9345.7
52.5°	7915.3	8052.4	8458.5	9213.8	9961.3	10853.8	12095.4	12542.9	13238.7	13427.5	10398.5
55°	6559.8	6487.4	7087.5	8184.3	9431.1	10949.5	12659.3	13373.2	14397.5	14534.6	11479.7
57.5°	5103.5	5238.1	5711.4	6764.2	8334.3	10476.1	13073.1	14193.2	15706.4	15812.4	12734.3
60°	3807.6	3825.7	4345.6	5194.1	6875.4	9407.8	13207.6	15033.9	17206.7	17509.3	14048.3
62.5°	2395.3	2503.9	2899.7	3735.2	5176.0	7912.7	12604.9	15543.4	18779.4	18859.6	15372.7
65°	1290.8	1360.6	1658.1	2183.2	3616.2	5985.6	11006.4	15238.2	19519.2	19995.1	15962.5
67°	954.5	967.4	1104.5	1394.2	2418.6	4506.0	9177.6	14133.7	19855.4	20202.1	15985.8
67.5°	895.0	913.1	1021.7	1252.0	2144.4	4149.1	8699.0	13740.5	19705.4	20077.9	15804.7
70°	765.7	770.8	796.7	861.4	1202.8	2496.2	5923.5	11259.9	18264.6	18621.6	14534.6
72.5°	680.3	685.5	695.8	708.8	814.8	1443.4	3603.3	8665.4	15874.5	16443.6	12540.3
75°	597.5	615.6	620.8	610.5	693.2	939.0	1916.7	6368.4	12949.0	13225.8	9751.8
77.5°	507.0	514.8	525.1	535.4	618.2	701.0	920.9	4299.1	8887.9	8719.7	5274.3
80°	426.8	429.4	437.2	444.9	535.4	535.4	522.5	2322.8	3882.6	3711.9	1782.2
82.5°	305.2	323.3	341.4	362.1	444.9	359.6	341.4	1034.7	1228.7	1169.2	602.7
85°	119.0	144.9	225.0	248.3	281.9	194.0	227.6	447.5	512.2	507.0	225.0
87.5°	20.7	23.3	62.1	95.7	103.5	67.3	108.6	160.4	191.4	206.9	82.8
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°	2322.8	2322.8	2322.8	2322.8	2322.8	2322.8	2322.8	2322.8	2322.8	2322.8	2322.8
2.5°	2343.5	2263.4	2167.6	2071.9	2009.9	1911.6	1903.8	1844.3	1836.6	1815.9	1826.2
5°	2361.6	2265.9	2071.9	1919.3	1849.5	1792.6	1805.5	1779.6	1771.9	1759.0	1738.3
7.5°	2503.9	2315.1	2025.4	1893.5	1841.7	1815.9	1815.9	1784.8	1761.5	1777.1	1792.6
10°	2597.0	2338.4	2061.6	1929.7	1888.3	1831.4	1852.1	1813.3	1826.2	1795.2	1795.2
12.5°	2747.1	2470.3	2136.6	1984.0	1916.7	1865.0	1885.7	1841.7	1831.4	1834.0	1826.2
15°	2948.8	2558.2	2170.2	2015.0	1968.5	1903.8	1888.3	1849.5	1810.7	1797.8	1813.3
17.5°	3137.7	2666.9	2193.5	2033.1	1958.1	1885.7	1867.6	1818.4	1805.5	1766.7	1735.7
20°	3362.7	2796.2	2224.6	2048.7	1919.3	1846.9	1800.3	1751.2	1707.2	1683.9	1694.3
22.5°	3512.7	2863.5	2240.1	2017.6	1862.4	1795.2	1696.9	1663.2	1601.2	1575.3	1554.6
25°	3758.5	2946.2	2201.3	1932.3	1761.5	1652.9	1564.9	1518.4	1474.4	1440.8	1430.4
27.5°	3820.5	3008.3	2110.7	1787.4	1601.2	1487.3	1412.3	1355.4	1327.0	1275.2	1264.9
30°	4001.6	2946.2	1976.2	1611.5	1448.5	1332.1	1257.1	1215.7	1148.5	1135.6	1107.1
32.5°	4118.0	2964.3	1805.5	1440.8	1272.7	1169.2	1120.0	1078.7	1060.5	998.5	982.9
35°	4312.0	2902.3	1632.2	1283.0	1127.8	1047.6	1006.2	993.3	933.8	905.3	879.5
37.5°	4436.2	2866.1	1458.9	1104.5	970.0	936.4	949.3	895.0	822.6	768.2	750.1
40°	4653.5	2853.1	1262.3	957.1	861.4	853.6	895.0	791.5	659.6	613.0	587.2
42.5°	4966.4	2765.2	1109.7	825.2	776.0	809.6	817.4	659.6	584.6	545.8	527.7
45°	5266.5	2783.3	959.7	682.9	675.1	724.3	706.2	558.7	514.8	486.3	501.8
47.5°	5843.3	2873.8	812.2	569.1	607.9	654.4	548.4	499.2	457.8	437.2	439.7
50°	6735.7	2961.8	682.9	519.9	574.2	592.4	470.8	452.7	450.1	408.7	406.1
52.5°	7271.2	2928.1	659.6	582.0	615.6	592.4	512.2	499.2	478.5	460.4	439.7
55°	8122.2	3026.4	708.8	680.3	698.4	569.1	574.2	569.1	553.6	507.0	519.9
57.5°	8799.9	3091.1	773.4	760.5	750.1	592.4	600.1	602.7	592.4	571.7	589.8
60°	9731.1	3220.4	840.7	843.3	845.8	644.1	657.0	672.5	670.0	662.2	667.4
62.5°	10302.8	3160.9	915.7	957.1	944.1	750.1	747.6	757.9	757.9	770.8	778.6
65°	10217.4	2941.1	954.5	1058.0	990.7	827.7	827.7	832.9	835.5	861.4	864.0
67°	9705.3	2547.9	933.8	1073.5	990.7	858.8	858.8	864.0	845.8	913.1	892.4
67.5°	9467.3	2431.5	915.7	1060.5	982.9	856.2	856.2	858.8	843.3	907.9	887.2
70°	8233.4	1805.5	788.9	939.0	910.5	832.9	832.9	817.4	804.5	889.8	871.7
72.5°	7028.0	1311.5	633.7	799.3	822.6	801.9	807.0	768.2	732.0	791.5	776.0
75°	5382.9	964.8	494.1	615.6	695.8	750.1	783.8	685.5	638.9	654.4	626.0
77.5°	3003.1	628.6	390.6	455.3	530.3	698.4	752.7	618.2	522.5	504.4	504.4
80°	1019.2	367.3	287.1	338.9	364.7	618.2	703.6	501.8	411.3	393.2	380.2
82.5°	385.4	225.0	196.6	232.8	232.8	488.9	574.2	385.4	310.4	400.9	408.7
85°	175.9	134.5	129.3	134.5	134.5	300.1	406.1	250.9	279.4	240.6	212.1
87.5°	69.8	64.7	59.5	56.9	46.6	51.7	139.7	67.3	126.7	33.6	31.0
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)