

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: P476478

Luminaire Tested: **IFLD-S-SA2E-727-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476478
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-727-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

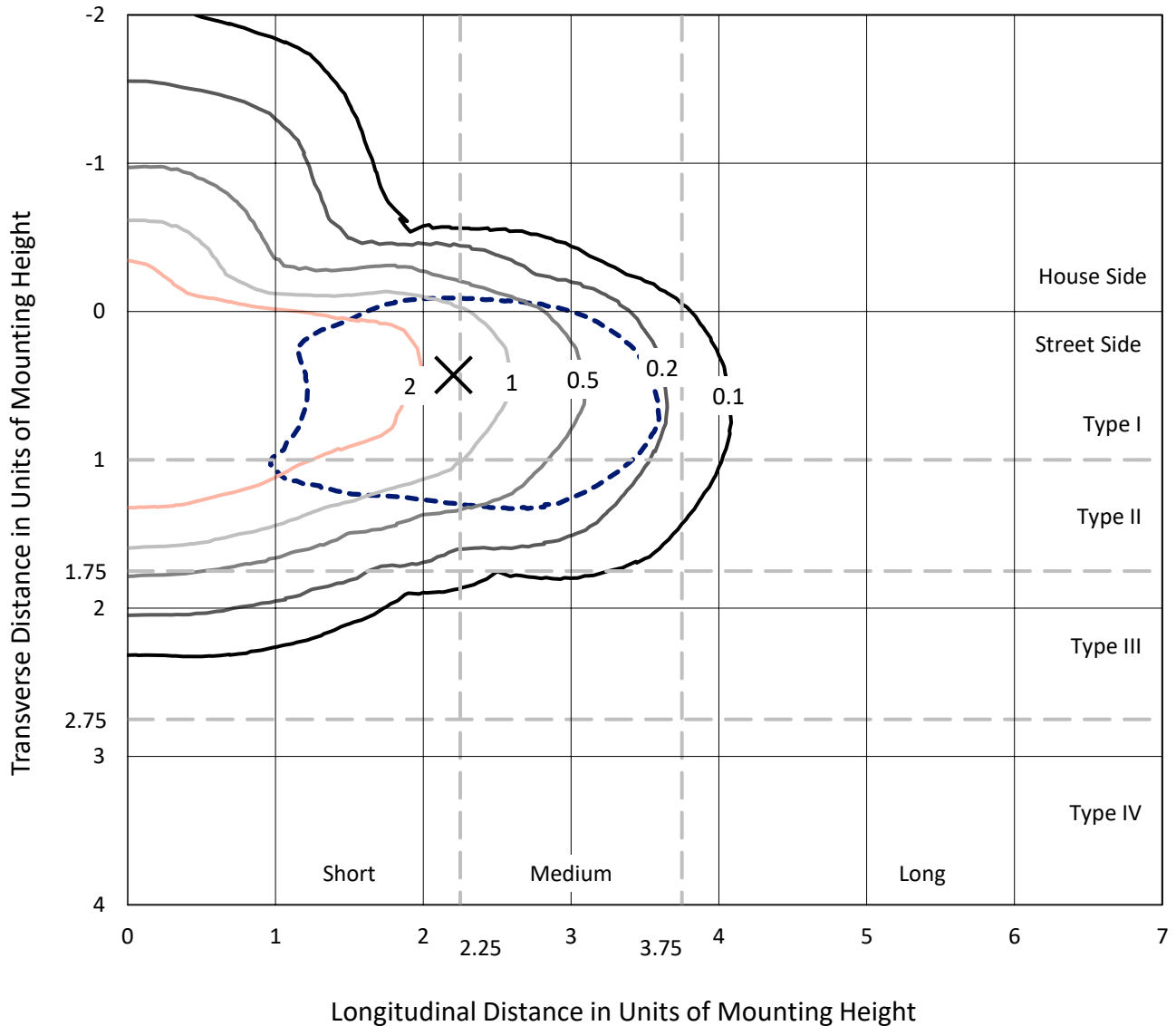
Lumens per Lamp: N/A
Luminaire Lumens: 15118.2 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 156.2
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

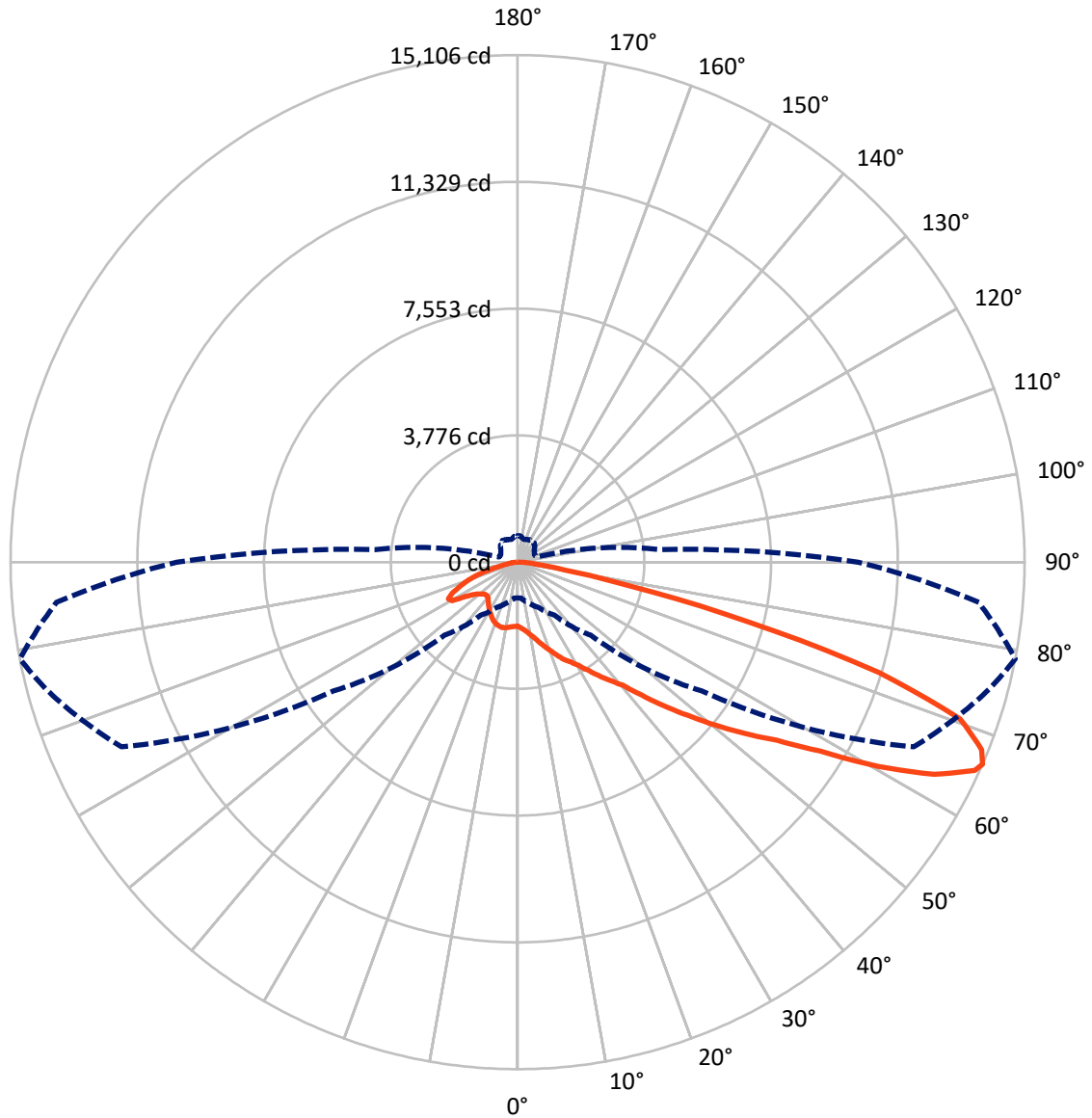
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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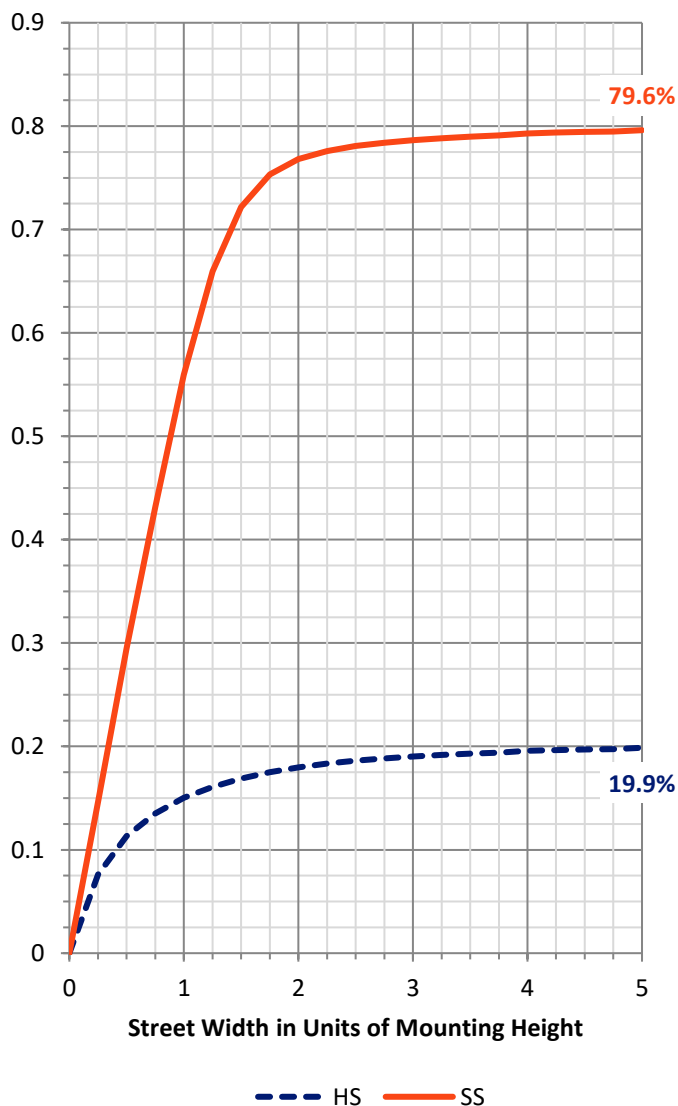
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3052.9	0.0	3052.9
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	12065.3	0.0	12065.3
	% Fixture	79.8	0.0	79.8
Total	Lumens	15118.2	0.0	15118.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.7	1.2
10°-20°	579.6	3.8
20°-30°	995.0	6.6
30°-40°	1537.0	10.2
40°-50°	2462.0	16.3
50°-60°	3675.9	24.3
60°-70°	3777.0	25.0
70°-80°	1674.3	11.1
80°-90°	229.7	1.5
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°	15118.2	100.0
0°-180°	15118.2	100.0

Coefficient of Utilization



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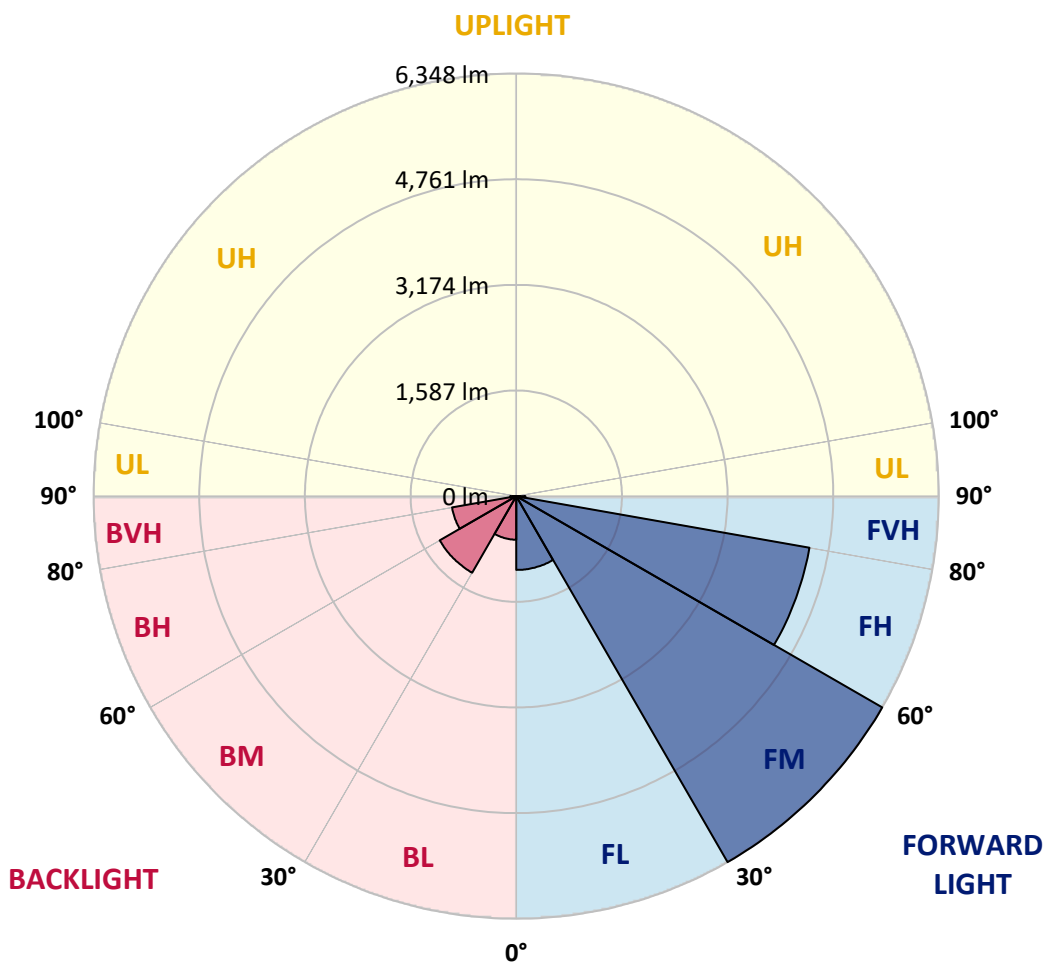
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1108.3	7.3			
FM (30°-60°)	6347.6	42.0			
FH (60°-80°)	4471.6	29.6			G2/5000
FVH (80°-90°)	137.8	0.9			G2/225
BL (0°-30°)	654.1	4.3	B2/1000		
BM (30°-60°)	1327.3	8.8	B2/2500		
BH (60°-80°)	979.6	6.5	B2/1000		G2/1000
BVH (80°-90°)	91.9	0.6			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0
2.5°	2030.4	2032.1	2032.1	2025.4	2027.1	2032.1	2013.8	1973.9	1973.9	1967.2	1955.6
5°	2155.1	2146.8	2135.2	2136.8	2130.2	2130.2	2110.2	2072.0	2038.7	2025.4	1990.5
7.5°	2171.8	2180.1	2178.4	2198.4	2208.3	2208.3	2218.3	2186.7	2136.8	2105.2	2070.3
10°	2205.0	2183.4	2181.7	2228.3	2243.3	2278.2	2318.1	2301.5	2259.9	2215.0	2168.4
12.5°	2225.0	2238.3	2238.3	2261.5	2296.5	2348.0	2417.9	2449.5	2384.6	2338.0	2266.5
15°	2254.9	2236.6	2289.8	2309.8	2376.3	2412.9	2512.6	2594.1	2550.9	2494.4	2381.3
17.5°	2268.2	2256.6	2286.5	2323.1	2436.2	2491.0	2612.4	2725.5	2688.9	2652.3	2535.9
20°	2336.4	2334.7	2348.0	2378.0	2459.4	2567.5	2718.8	2875.2	2888.5	2821.9	2664.0
22.5°	2502.7	2481.1	2481.1	2469.4	2504.3	2615.7	2820.3	3036.5	3096.3	3018.2	2808.6
25°	2655.7	2685.6	2667.3	2614.1	2600.8	2659.0	2893.5	3207.7	3287.6	3214.4	3004.9
27.5°	2851.9	2861.9	2893.5	2821.9	2730.5	2748.8	2973.3	3304.2	3468.8	3370.7	3116.3
30°	3134.6	3116.3	3109.6	3029.8	2910.1	2885.1	3064.7	3445.5	3706.6	3568.6	3247.7
32.5°	3325.8	3370.7	3369.0	3259.3	3114.6	3059.7	3177.8	3578.6	3961.0	3833.0	3490.4
35°	3704.9	3751.5	3714.9	3553.6	3384.0	3274.3	3340.8	3751.5	4252.0	4152.3	3696.6
37.5°	4188.9	4298.6	4220.4	3922.8	3683.3	3563.6	3566.9	3939.4	4549.7	4468.2	3917.8
40°	4523.1	4671.1	4563.0	4283.6	4029.2	3916.1	3871.2	4162.2	4905.6	4819.1	4263.7
42.5°	4937.2	5060.2	5003.7	4727.6	4430.0	4333.5	4243.7	4534.7	5449.3	5409.4	4707.7
45°	5389.5	5447.7	5429.4	5254.8	4923.9	4890.6	4692.7	5025.3	6089.6	6106.2	5263.1
47.5°	5810.2	5841.8	5876.7	5750.3	5544.1	5572.4	5209.9	5550.8	6711.5	6821.2	5881.7
50°	5918.3	6026.4	6107.8	6192.7	6237.6	6428.8	5780.3	6196.0	7426.5	7639.4	6570.1
52.5°	5808.5	5800.2	6048.0	6314.0	6763.0	7163.8	6556.8	6997.5	8058.4	8479.1	7200.4
55°	5309.7	5293.0	5692.1	6044.7	6921.0	7572.9	7666.0	8065.1	8821.7	9368.8	8053.4
57.5°	4436.6	4333.5	4769.2	5347.9	6578.4	7617.8	8780.1	9649.8	9995.7	10619.3	9355.5
60°	2981.6	2938.4	3355.7	4045.8	5341.2	6980.9	9447.0	11633.7	11650.3	12352.0	11375.9
62.5°	1835.8	1844.2	2111.9	2629.1	3739.9	5534.1	9159.3	13218.4	13221.7	13925.2	13038.8
65°	1200.6	1205.6	1421.8	1707.8	2336.4	3753.2	7574.5	13343.1	14314.3	14967.8	13800.4
66°	1069.2	1070.9	1257.2	1490.0	1935.6	3071.4	6689.9	13018.9	14560.4	15105.8	13790.5
67.5°	901.3	922.9	1072.6	1252.2	1509.9	2206.7	5308.0	12081.0	14434.0	14912.9	13477.8
70°	705.1	716.7	834.8	1017.7	1132.4	1277.1	3154.5	9847.7	13211.8	13988.3	12340.4
72.5°	565.4	575.4	665.2	826.5	919.6	841.4	1717.8	7145.5	10436.4	11264.5	9706.4
75°	477.3	478.9	522.2	650.2	756.6	631.9	914.6	4586.3	6696.5	7082.3	5946.5
77.5°	385.8	392.4	422.4	495.5	608.6	497.2	545.4	2569.2	3362.4	3390.7	2748.8
80°	314.3	317.6	335.9	360.9	464.0	367.5	369.2	1253.8	1441.7	1408.5	1117.5
82.5°	247.8	251.1	272.7	267.7	340.9	262.7	229.5	603.6	663.5	650.2	513.8
85°	139.7	139.7	214.5	214.5	216.2	166.3	139.7	284.4	350.9	327.6	241.1
87.5°	44.9	46.6	64.9	68.2	108.1	74.8	68.2	106.4	166.3	146.3	86.5
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°	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0	1909.0
2.5°	1948.9	1922.3	1910.7	1872.4	1862.5	1837.5	1825.9	1810.9	1805.9	1784.3	1804.3
5°	1963.9	1955.6	1909.0	1860.8	1824.2	1807.6	1782.6	1749.4	1746.0	1716.1	1712.8
7.5°	2027.1	1998.8	1917.3	1865.8	1792.6	1751.0	1696.2	1679.5	1657.9	1647.9	1669.6
10°	2125.2	2053.7	1932.3	1802.6	1712.8	1662.9	1623.0	1611.4	1613.0	1606.4	1596.4
12.5°	2195.0	2126.9	1907.4	1749.4	1633.0	1584.7	1581.4	1593.1	1611.4	1603.0	1614.7
15°	2294.8	2166.8	1889.1	1661.2	1568.1	1554.8	1553.2	1588.1	1586.4	1586.4	1584.7
17.5°	2387.9	2206.7	1822.5	1584.7	1499.9	1509.9	1521.6	1519.9	1536.5	1543.2	1554.8
20°	2506.0	2253.2	1729.4	1508.3	1448.4	1445.1	1443.4	1445.1	1461.7	1471.7	1463.4
22.5°	2609.1	2263.2	1651.3	1435.1	1386.9	1373.6	1351.9	1373.6	1365.2	1368.6	1378.5
25°	2698.9	2264.9	1539.8	1380.2	1325.3	1295.4	1278.8	1277.1	1262.1	1260.5	1260.5
27.5°	2773.7	2208.3	1441.7	1303.7	1252.2	1223.9	1222.2	1203.9	1165.7	1140.8	1144.1
30°	2831.9	2165.1	1373.6	1237.2	1187.3	1182.3	1167.4	1125.8	1075.9	1044.3	1044.3
32.5°	2935.0	2078.6	1280.4	1169.0	1144.1	1137.4	1102.5	1065.9	1019.4	989.4	984.4
35°	3011.5	1998.8	1218.9	1110.8	1099.2	1085.9	1055.9	1016.0	1002.7	996.1	1001.1
37.5°	3098.0	1909.0	1144.1	1060.9	1072.6	1047.6	1012.7	994.4	1041.0	1029.3	1034.3
40°	3236.0	1845.8	1070.9	1031.0	1042.6	1014.4	969.5	962.8	1021.0	979.5	969.5
42.5°	3488.8	1844.2	1026.0	986.1	994.4	972.8	932.9	929.6	952.8	903.0	888.0
45°	3803.1	1902.4	992.8	952.8	946.2	942.9	929.6	914.6	894.6	829.8	813.2
47.5°	4178.9	1997.1	986.1	903.0	911.3	939.5	922.9	884.7	833.1	791.5	783.2
50°	4634.5	2193.4	969.5	866.4	881.3	926.2	912.9	859.7	813.2	786.6	781.6
52.5°	5138.4	2441.1	947.9	809.8	843.1	914.6	921.2	871.4	803.2	779.9	776.6
55°	5732.0	2807.0	922.9	748.3	798.2	903.0	921.2	838.1	789.9	789.9	786.6
57.5°	6904.4	3465.5	871.4	691.8	758.3	881.3	894.6	839.8	791.5	791.5	784.9
60°	8623.8	4493.2	773.3	648.5	720.0	851.4	874.7	814.8	773.3	783.2	781.6
62.5°	9969.1	4805.8	690.1	607.0	681.8	796.5	848.1	788.2	751.6	788.2	791.5
65°	10256.8	4489.8	605.3	562.1	628.6	743.3	809.8	750.0	720.0	791.5	794.9
66°	10153.7	4243.7	575.4	548.8	605.3	716.7	786.6	736.7	703.4	788.2	789.9
67.5°	9694.7	3874.6	542.1	520.5	573.7	678.5	759.9	718.4	676.8	778.2	763.3
70°	8697.0	3285.9	485.6	470.6	528.8	615.3	698.4	671.8	635.2	716.7	690.1
72.5°	6698.2	2625.7	425.7	427.4	477.3	550.4	636.9	618.6	587.0	628.6	611.9
75°	4079.1	1677.9	370.8	374.2	415.7	488.9	578.7	565.4	527.1	550.4	542.1
77.5°	1807.6	831.5	312.6	319.3	352.5	430.7	503.9	482.2	442.3	447.3	444.0
80°	701.7	394.1	254.4	262.7	284.4	344.2	417.4	397.4	362.5	355.9	352.5
82.5°	337.6	219.5	196.2	199.5	207.9	274.4	359.2	334.2	287.7	257.8	257.8
85°	169.6	136.4	138.0	126.4	138.0	186.2	242.8	202.9	168.0	149.7	153.0
87.5°	68.2	68.2	68.2	58.2	61.5	88.1	113.1	76.5	69.8	41.6	41.6
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)