

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: P476635

Luminaire Tested: **IFLD-S-SA3A-750-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476635
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-750-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

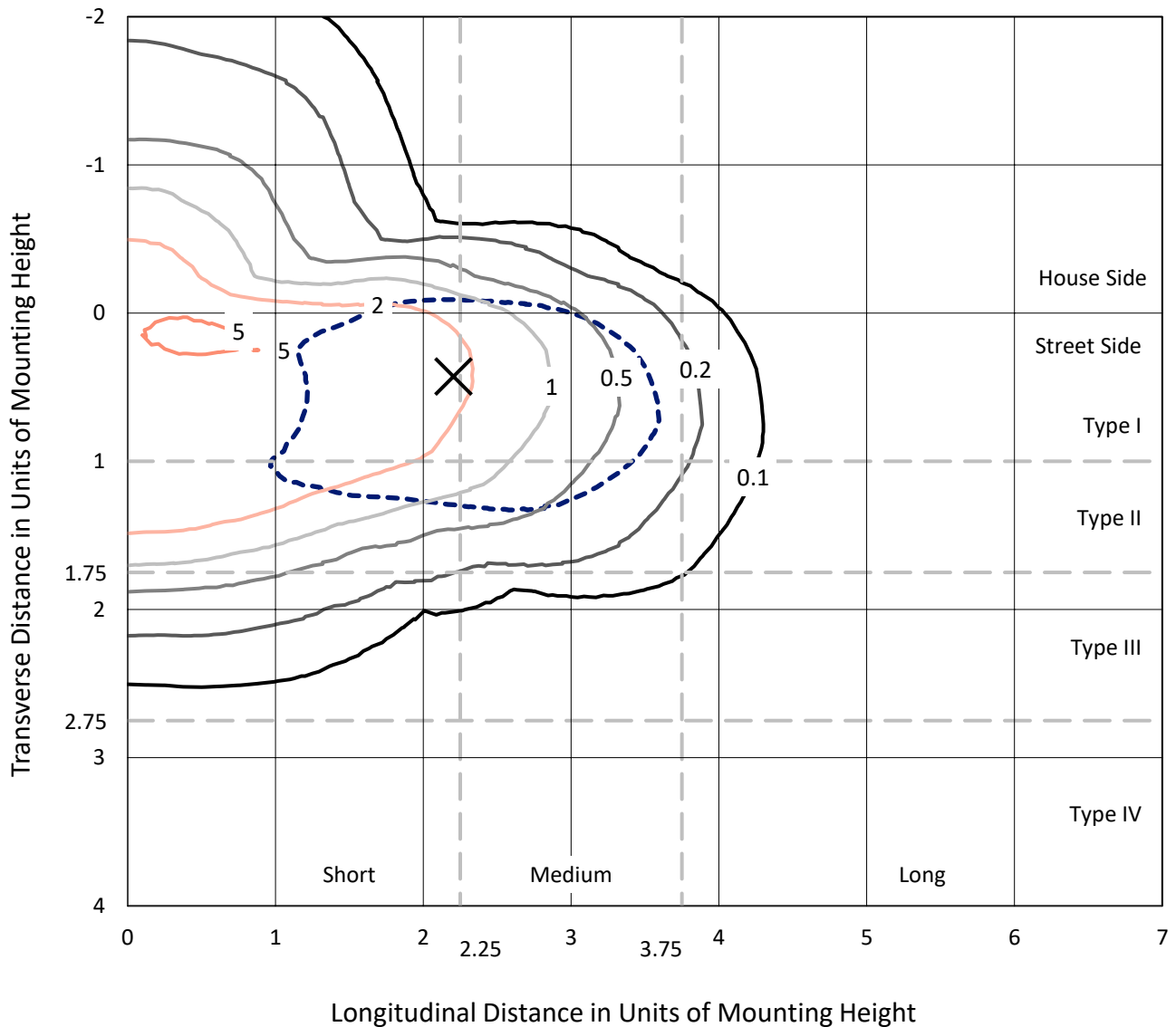
Lumens per Lamp: N/A
Luminaire Lumens: 14056.6 lumens
Efficiency: N/A
Efficacy: 148.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 94.8
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

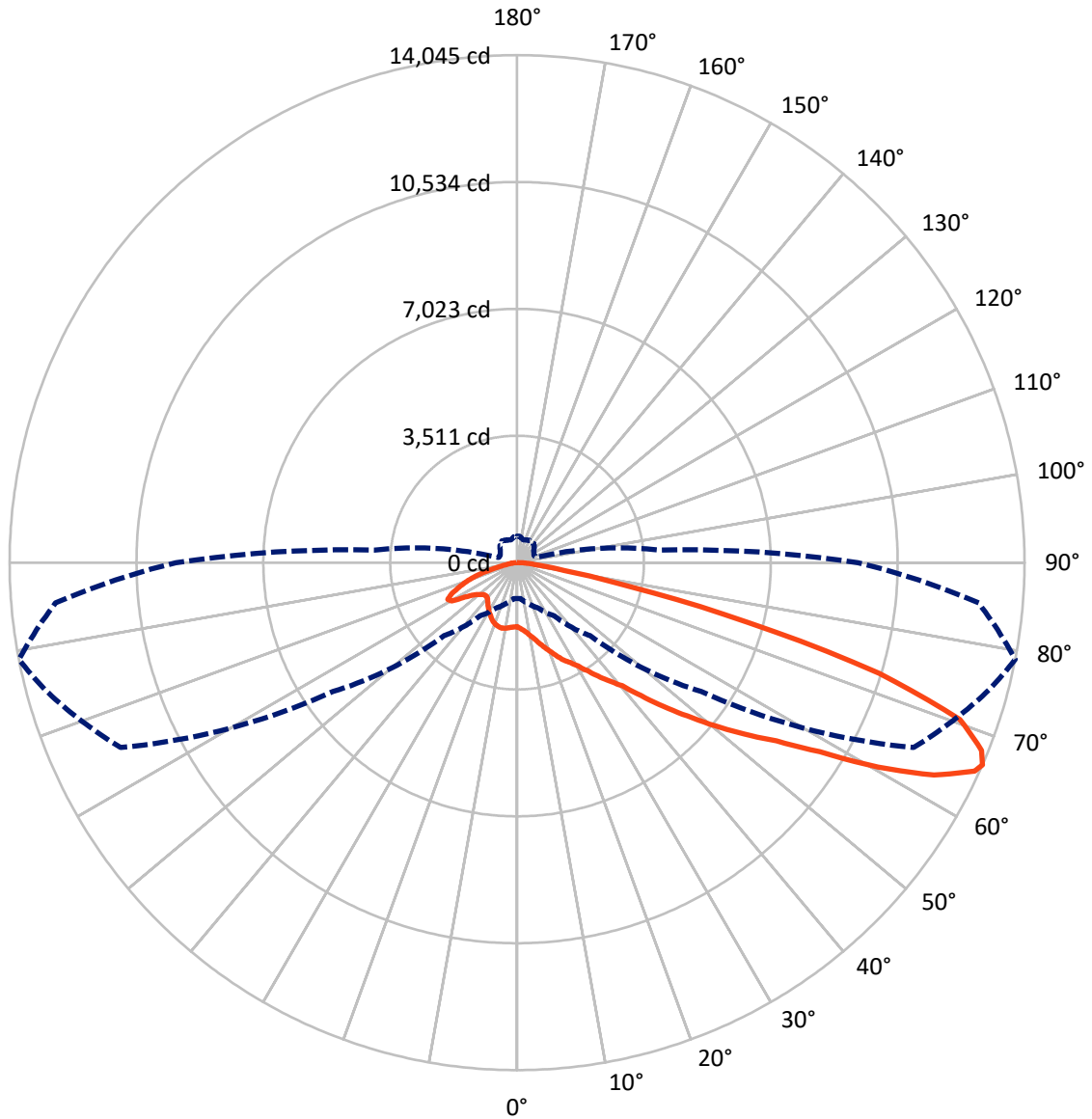
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 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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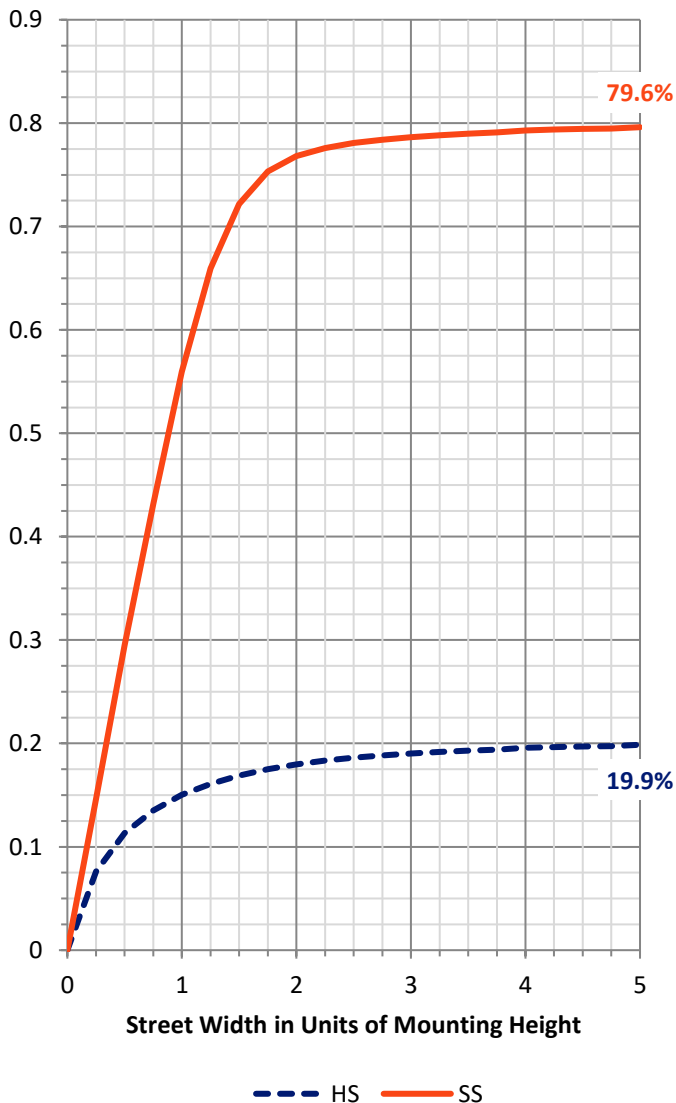
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2838.5	0.0	2838.5
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	11218.1	0.0	11218.1
	% Fixture	79.8	0.0	79.8
Total	Lumens	14056.6	0.0	14056.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.5	1.2
10°-20°	538.9	3.8
20°-30°	925.1	6.6
30°-40°	1429.1	10.2
40°-50°	2289.1	16.3
50°-60°	3417.8	24.3
60°-70°	3511.8	25.0
70°-80°	1556.7	11.1
80°-90°	213.6	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°	14056.6	100.0
0°-180°	14056.6	100.0



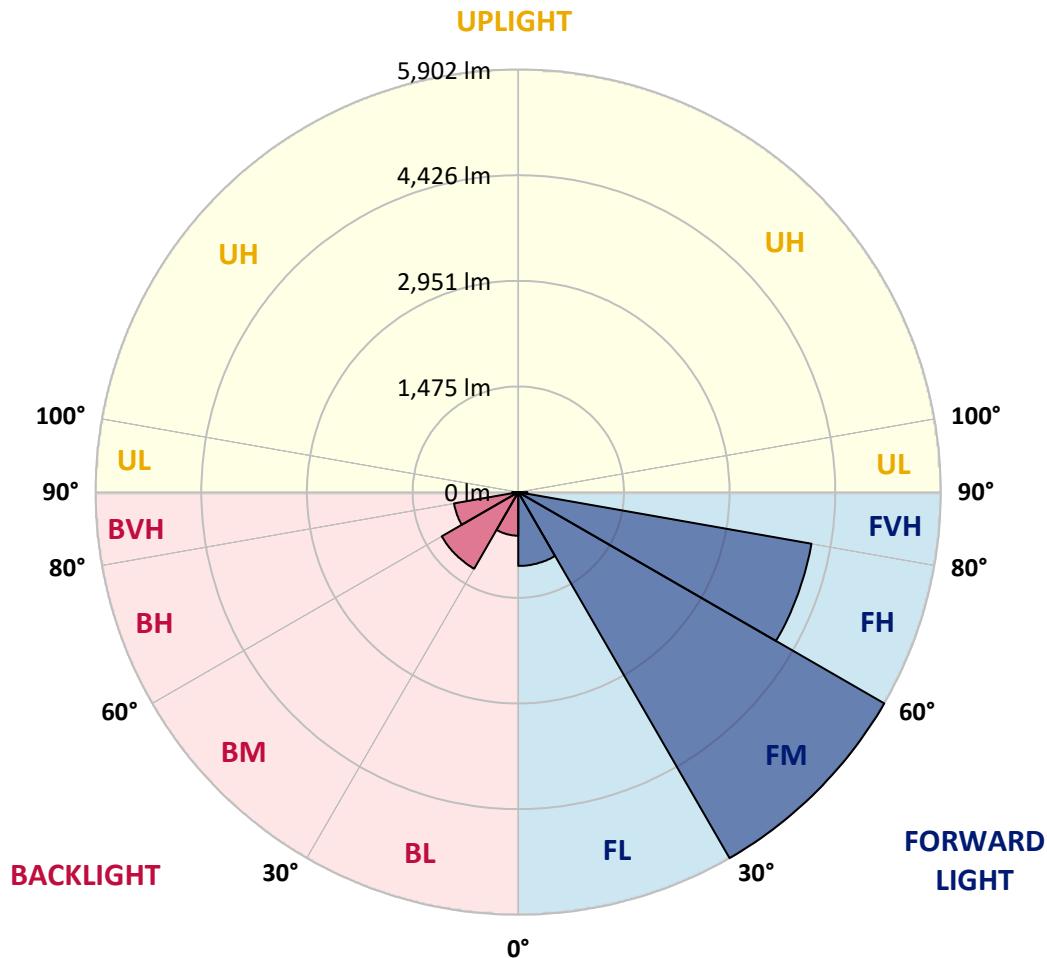
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1030.4	7.3			
FM (30°-60°)	5901.9	42.0			
FH (60°-80°)	4157.6	29.6			G2/5000
FVH (80°-90°)	128.1	0.9			G2/225
BL (0°-30°)	608.2	4.3	B2/1000		
BM (30°-60°)	1234.1	8.8	B2/2500		
BH (60°-80°)	910.8	6.5	B2/1000		G2/1000
BVH (80°-90°)	85.5	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°	1775.0	1775.0	1775.0	1775.0	1775.0	1775.0	1775.0	1775.0	1775.0	1775.0	1775.0
2.5°	1887.8	1889.4	1889.4	1883.2	1884.7	1889.4	1872.4	1835.3	1835.3	1829.1	1818.3
5°	2003.8	1996.1	1985.2	1986.8	1980.6	1980.6	1962.0	1926.5	1895.6	1883.2	1850.7
7.5°	2019.2	2027.0	2025.4	2044.0	2053.3	2053.3	2062.5	2033.2	1986.8	1957.4	1924.9
10°	2050.2	2030.1	2028.5	2071.8	2085.7	2118.2	2155.3	2139.8	2101.2	2059.4	2016.2
12.5°	2068.7	2081.1	2081.1	2102.7	2135.2	2183.1	2248.1	2277.5	2217.2	2173.9	2107.4
15°	2096.6	2079.5	2129.0	2147.6	2209.4	2243.4	2336.2	2412.0	2371.8	2319.2	2214.1
17.5°	2108.9	2098.1	2125.9	2159.9	2265.1	2316.1	2429.0	2534.1	2500.1	2466.1	2357.9
20°	2172.3	2170.8	2183.1	2211.0	2286.7	2387.2	2527.9	2673.3	2685.6	2623.8	2476.9
22.5°	2326.9	2306.8	2306.8	2296.0	2328.5	2432.1	2622.2	2823.2	2878.9	2806.2	2611.4
25°	2469.2	2497.0	2480.0	2430.5	2418.2	2472.3	2690.3	2982.5	3056.7	2988.7	2793.9
27.5°	2651.6	2660.9	2690.3	2623.8	2538.7	2555.8	2764.5	3072.2	3225.2	3134.0	2897.5
30°	2914.5	2897.5	2891.3	2817.1	2705.7	2682.5	2849.5	3203.6	3446.3	3318.0	3019.6
32.5°	3092.3	3134.0	3132.5	3030.4	2895.9	2844.9	2954.7	3327.3	3682.9	3563.8	3245.3
35°	3444.8	3488.1	3454.1	3304.1	3146.4	3044.3	3106.2	3488.1	3953.5	3860.7	3437.1
37.5°	3894.7	3996.8	3924.1	3647.3	3424.7	3313.4	3316.5	3662.8	4230.2	4154.5	3642.7
40°	4205.5	4343.1	4242.6	3982.8	3746.3	3641.1	3599.4	3870.0	4561.1	4480.7	3964.3
42.5°	4590.5	4704.9	4652.3	4395.7	4118.9	4029.2	3945.7	4216.3	5066.7	5029.6	4377.1
45°	5011.0	5065.1	5048.1	4885.8	4578.1	4547.2	4363.2	4672.4	5661.9	5677.4	4893.5
47.5°	5402.2	5431.6	5464.0	5346.5	5154.8	5181.1	4844.0	5161.0	6240.2	6342.2	5468.7
50°	5502.7	5603.2	5678.9	5757.8	5799.5	5977.3	5374.4	5760.9	6905.0	7102.9	6108.8
52.5°	5400.6	5392.9	5623.3	5870.7	6288.1	6660.7	6096.4	6506.1	7492.6	7883.7	6694.8
55°	4936.8	4921.3	5292.4	5620.2	6435.0	7041.1	7127.7	7498.7	8202.2	8710.9	7487.9
57.5°	4125.1	4029.2	4434.3	4972.4	6116.5	7082.8	8163.6	8972.2	9293.8	9873.6	8698.5
60°	2772.2	2732.0	3120.1	3761.7	4966.2	6490.7	8783.6	10816.7	10832.2	11484.7	10577.1
62.5°	1706.9	1714.7	1963.6	2444.4	3477.3	5145.5	8516.1	12290.2	12293.3	12947.3	12123.2
65°	1116.3	1120.9	1321.9	1587.9	2172.3	3489.6	7042.6	12406.2	13309.1	13916.7	12831.4
66°	994.2	995.7	1168.9	1385.3	1799.7	2855.7	6220.1	12104.7	13537.9	14045.1	12822.1
67.5°	838.0	858.1	997.3	1164.2	1403.9	2051.7	4935.3	11232.7	13420.4	13865.7	12531.4
70°	655.6	666.4	776.2	946.2	1052.9	1187.4	2933.0	9156.2	12284.0	13006.1	11473.8
72.5°	525.7	535.0	618.5	768.4	855.0	782.3	1597.2	6643.7	9703.5	10473.5	9024.8
75°	443.7	445.3	485.5	604.5	703.5	587.5	850.4	4264.2	6226.3	6585.0	5529.0
77.5°	358.7	364.9	392.7	460.7	565.9	462.3	507.1	2388.8	3126.3	3152.6	2555.8
80°	292.2	295.3	312.3	335.5	431.4	341.7	343.2	1165.8	1340.5	1309.6	1039.0
82.5°	230.4	233.5	253.6	248.9	317.0	244.3	213.4	561.2	616.9	604.5	477.8
85°	129.9	129.9	199.5	199.5	201.0	154.6	129.9	264.4	326.2	304.6	224.2
87.5°	41.7	43.3	60.3	63.4	100.5	69.6	63.4	99.0	154.6	136.1	80.4
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°	1775.0	1775.0	1775.0	1775.0	1775.0	1775.0	1775.0	1775.0	1775.0	1775.0	1775.0
2.5°	1812.1	1787.3	1776.5	1740.9	1731.7	1708.5	1697.7	1683.7	1679.1	1659.0	1677.6
5°	1826.0	1818.3	1775.0	1730.1	1696.1	1680.6	1657.5	1626.5	1623.4	1595.6	1592.5
7.5°	1884.7	1858.5	1782.7	1734.8	1666.7	1628.1	1577.1	1561.6	1541.5	1532.2	1552.3
10°	1976.0	1909.5	1796.6	1676.0	1592.5	1546.1	1509.0	1498.2	1499.7	1493.6	1484.3
12.5°	2040.9	1977.5	1773.4	1626.5	1518.3	1473.5	1470.4	1481.2	1498.2	1490.5	1501.3
15°	2133.7	2014.6	1756.4	1544.6	1458.0	1445.6	1444.1	1476.6	1475.0	1475.0	1473.5
17.5°	2220.2	2051.7	1694.6	1473.5	1394.6	1403.9	1414.7	1413.2	1428.6	1434.8	1445.6
20°	2330.0	2095.0	1608.0	1402.3	1346.7	1343.6	1342.0	1343.6	1359.1	1368.3	1360.6
22.5°	2425.9	2104.3	1535.3	1334.3	1289.5	1277.1	1257.0	1277.1	1269.4	1272.5	1281.7
25°	2509.4	2105.8	1431.7	1283.3	1232.3	1204.4	1189.0	1187.4	1173.5	1172.0	1172.0
27.5°	2578.9	2053.3	1340.5	1212.2	1164.2	1138.0	1136.4	1119.4	1083.8	1060.6	1063.7
30°	2633.1	2013.1	1277.1	1150.3	1103.9	1099.3	1085.4	1046.7	1000.3	971.0	971.0
32.5°	2728.9	1932.7	1190.5	1086.9	1063.7	1057.6	1025.1	991.1	947.8	919.9	915.3
35°	2800.0	1858.5	1133.3	1032.8	1022.0	1009.6	981.8	944.7	932.3	926.1	930.8
37.5°	2880.4	1775.0	1063.7	986.4	997.3	974.1	941.6	924.6	967.9	957.1	961.7
40°	3008.8	1716.2	995.7	958.6	969.4	943.1	901.4	895.2	949.3	910.7	901.4
42.5°	3243.8	1714.7	954.0	916.9	924.6	904.5	867.4	864.3	885.9	839.5	825.6
45°	3536.0	1768.8	923.0	885.9	879.7	876.7	864.3	850.4	831.8	771.5	756.1
47.5°	3885.4	1856.9	916.9	839.5	847.3	873.6	858.1	822.5	774.6	736.0	728.2
50°	4309.1	2039.3	901.4	805.5	819.5	861.2	848.8	799.4	756.1	731.3	726.7
52.5°	4777.5	2269.7	881.3	753.0	783.9	850.4	856.6	810.2	746.8	725.1	722.0
55°	5329.5	2609.9	858.1	695.8	742.1	839.5	856.6	779.3	734.4	734.4	731.3
57.5°	6419.5	3222.1	810.2	643.2	705.0	819.5	831.8	780.8	736.0	736.0	729.8
60°	8018.2	4177.6	719.0	603.0	669.5	791.6	813.3	757.6	719.0	728.2	726.7
62.5°	9269.1	4468.3	641.6	564.3	633.9	740.6	788.5	732.9	698.9	732.9	736.0
65°	9536.5	4174.6	562.8	522.6	584.4	691.1	753.0	697.3	669.5	736.0	739.1
66°	9440.7	3945.7	535.0	510.2	562.8	666.4	731.3	684.9	654.0	732.9	734.4
67.5°	9014.0	3602.5	504.0	483.9	533.4	630.8	706.6	667.9	629.3	723.6	709.7
70°	8086.3	3055.2	451.5	437.6	491.7	572.1	649.4	624.6	590.6	666.4	641.6
72.5°	6227.8	2441.3	395.8	397.4	443.7	511.8	592.2	575.2	545.8	584.4	569.0
75°	3792.7	1560.0	344.8	347.9	386.5	454.6	538.1	525.7	490.1	511.8	504.0
77.5°	1680.6	773.1	290.7	296.9	327.8	400.4	468.5	448.4	411.3	415.9	412.8
80°	652.5	366.4	236.6	244.3	264.4	320.0	388.1	369.5	337.1	330.9	327.8
82.5°	313.9	204.1	182.4	185.5	193.3	255.1	334.0	310.8	267.5	239.7	239.7
85°	157.7	126.8	128.3	117.5	128.3	173.2	225.7	188.6	156.2	139.2	142.2
87.5°	63.4	63.4	63.4	54.1	57.2	81.9	105.1	71.1	64.9	38.7	38.7
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)