

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: P478113

Luminaire Tested: **IFLD-S-SA2B-735-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478113
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-735-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

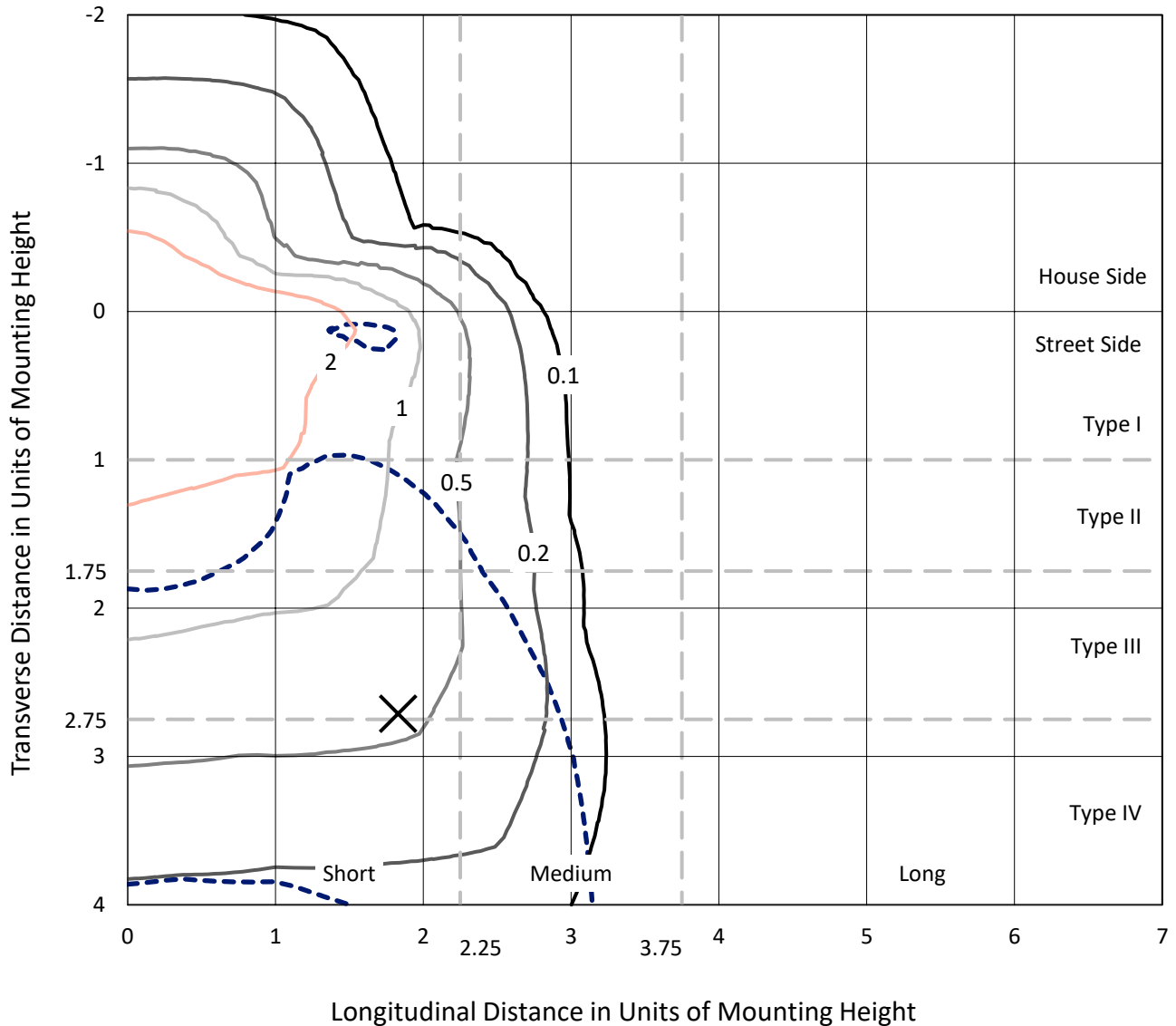
Lumens per Lamp: N/A
Luminaire Lumens: 11537.2 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 82.4
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

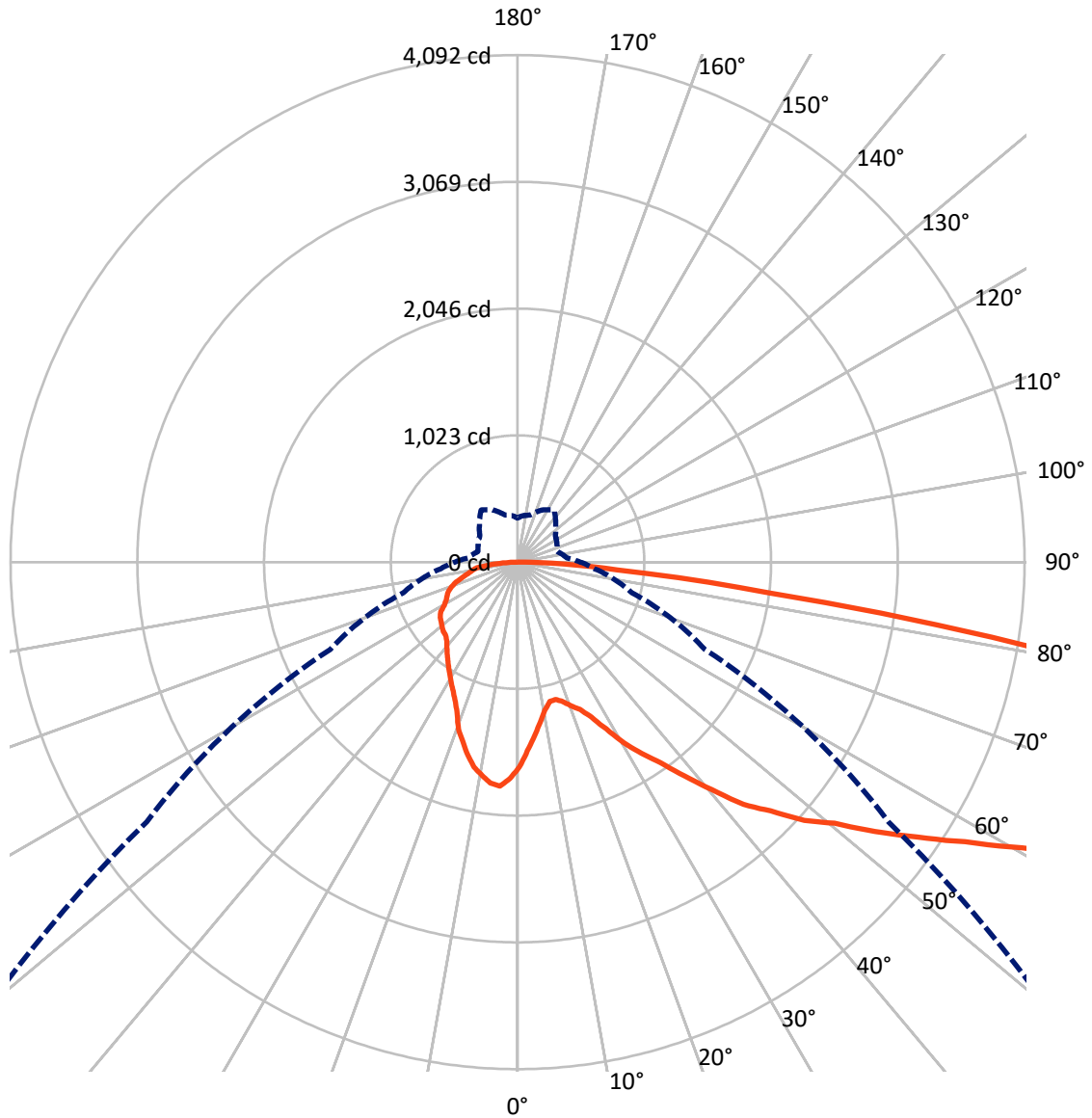
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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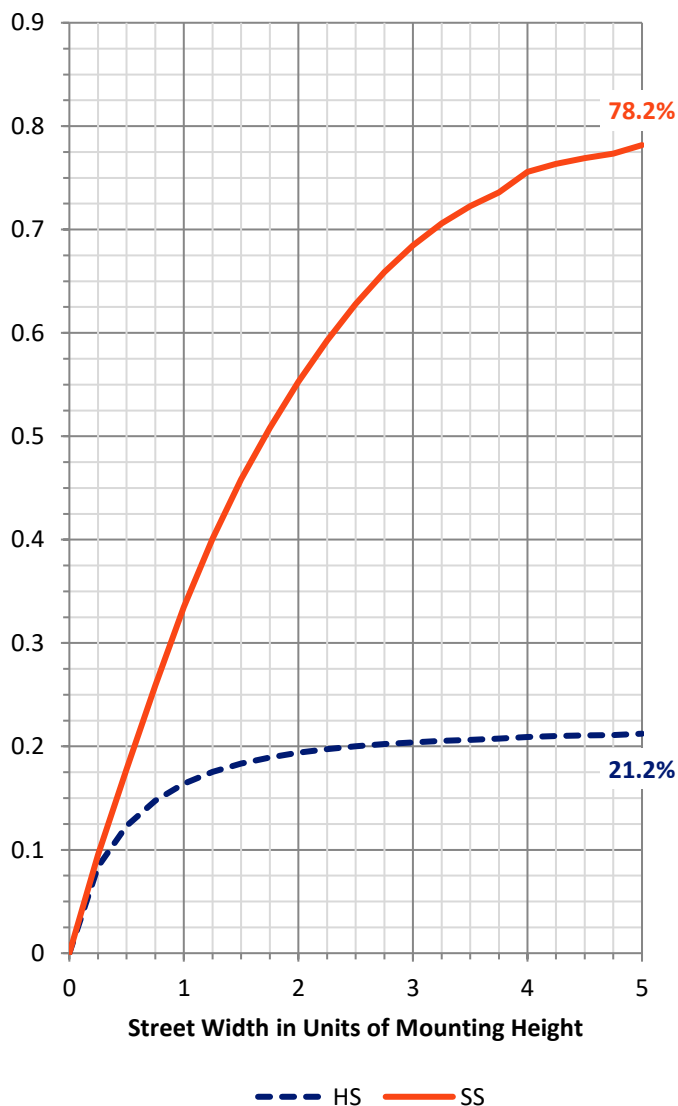
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2492.2	0.0	2492.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	9045.0	0.0	9045.0
	% Fixture	78.4	0.0	78.4
Total	Lumens	11537.2	0.0	11537.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.7	1.3
10°-20°	427.2	3.7
20°-30°	703.2	6.1
30°-40°	1051.6	9.1
40°-50°	1558.9	13.5
50°-60°	2246.5	19.5
60°-70°	2866.9	24.8
70°-80°	2230.9	19.3
80°-90°	299.3	2.6
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°	11537.2	100.0
0°-180°	11537.2	100.0

Coefficient of Utilization



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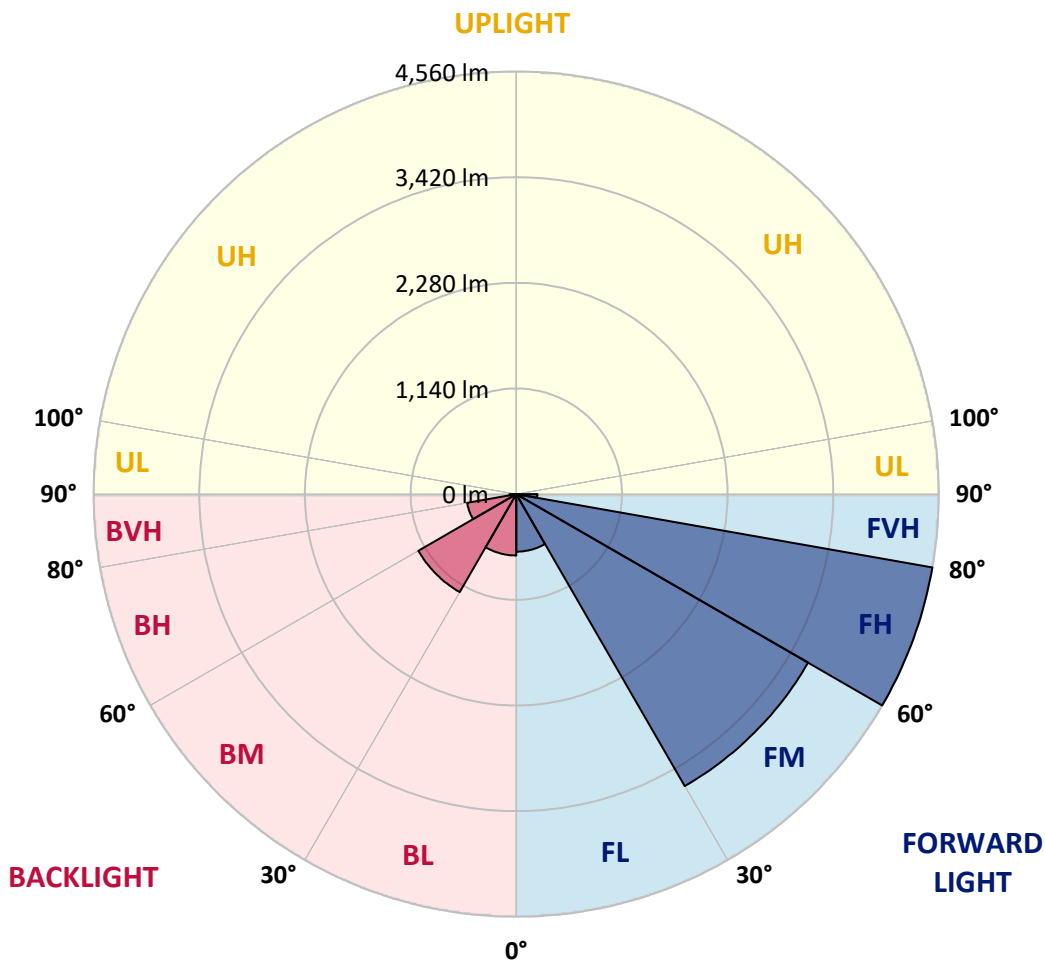
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	620.9	5.4			
FM (30°-60°)	3636.6	31.5			
FH (60°-80°)	4559.7	39.5			G2/5000
FVH (80°-90°)	227.8	2.0			G3/500
BL (0°-30°)	662.2	5.7	B2/1000		
BM (30°-60°)	1220.4	10.6	B2/2500		
BH (60°-80°)	538.1	4.7	B2/1000		G2/1000
BVH (80°-90°)	71.5	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0
2.5°	1482.0	1486.9	1502.8	1506.4	1523.5	1513.8	1534.5	1571.1	1591.8	1622.3	1658.9
5°	1364.9	1344.2	1354.0	1391.8	1411.3	1416.2	1438.1	1500.3	1539.4	1584.5	1652.8
7.5°	1227.1	1223.4	1243.0	1267.4	1306.4	1310.1	1358.8	1413.7	1494.2	1594.3	1674.8
10°	1133.2	1149.0	1160.0	1185.6	1212.5	1212.5	1274.7	1369.8	1461.3	1557.7	1679.6
12.5°	1128.3	1118.5	1121.0	1134.4	1153.9	1178.3	1236.9	1322.2	1438.1	1550.4	1700.4
15°	1144.2	1147.8	1125.9	1142.9	1150.3	1158.8	1223.4	1319.8	1423.5	1576.0	1735.8
17.5°	1228.3	1207.6	1173.4	1157.6	1183.2	1183.2	1227.1	1302.7	1425.9	1589.4	1787.0
20°	1294.2	1294.2	1238.1	1221.0	1239.3	1235.6	1266.1	1322.2	1438.1	1616.2	1844.3
22.5°	1405.2	1421.1	1328.3	1293.0	1291.8	1301.5	1328.3	1375.9	1472.3	1654.0	1899.2
25°	1565.0	1568.6	1461.3	1424.7	1385.7	1401.5	1406.4	1454.0	1502.8	1697.9	1961.4
27.5°	1743.1	1740.6	1641.8	1550.4	1524.7	1528.4	1501.6	1533.3	1547.9	1711.4	2050.5
30°	1940.7	1918.7	1844.3	1715.0	1694.3	1671.1	1612.6	1611.3	1641.8	1787.0	2173.7
32.5°	2070.0	2041.9	1990.7	1898.0	1840.7	1843.1	1750.4	1749.2	1722.3	1869.9	2281.0
35°	2196.8	2154.1	2140.7	2045.6	1988.3	1994.4	1919.9	1910.2	1861.4	1995.6	2457.9
37.5°	2349.3	2311.5	2332.2	2260.3	2189.5	2160.2	2126.1	2113.9	2050.5	2172.4	2699.4
40°	2517.6	2505.4	2492.0	2456.7	2414.0	2416.4	2379.8	2367.6	2273.7	2385.9	2931.1
42.5°	2744.5	2698.2	2628.6	2651.8	2673.8	2697.0	2684.8	2653.0	2555.5	2603.0	3189.7
45°	2955.5	2894.6	2766.5	2773.8	2864.1	2882.4	3030.0	3026.3	2829.9	2878.7	3483.7
47.5°	3098.3	3070.2	2993.4	2984.8	3114.1	3112.9	3378.8	3378.8	3119.0	3153.2	3799.6
50°	3310.5	3237.3	3204.4	3247.1	3312.9	3358.1	3735.0	3758.2	3403.2	3439.8	4213.1
52.5°	3559.3	3467.9	3384.9	3494.7	3611.8	3641.1	4087.5	4077.7	3621.5	3772.8	4697.4
55°	3765.5	3719.1	3661.8	3725.2	3916.7	3953.3	4441.2	4351.0	3839.9	4048.5	4930.4
57.5°	4005.8	4033.8	4046.0	4030.2	4258.3	4315.6	4845.0	4586.4	4027.7	4233.9	5067.0
60°	4368.1	4385.1	4401.0	4438.8	4680.3	4760.8	5164.6	4881.6	4146.1	4341.2	5078.0
62.5°	4919.4	4853.5	4888.9	5019.4	5213.4	5304.9	5635.4	5089.0	4236.3	4405.9	4719.4
65°	5550.0	5461.0	5424.4	5592.7	6095.3	6022.1	6223.4	5243.9	4105.8	4164.4	4002.1
67.5°	6189.2	6199.0	6105.0	6442.9	7058.9	7058.9	6769.8	5318.3	3752.1	3375.2	2806.7
70°	6696.6	6727.1	6778.4	7433.4	8409.2	8556.8	7446.8	5013.3	3031.2	2246.8	1534.5
72.5°	6689.3	6597.8	6860.1	8066.5	9636.3	9513.1	7588.3	3964.3	1891.9	1100.2	703.8
73°	6539.3	6462.4	6749.1	8060.4	9686.3	9570.5	7484.6	3654.5	1668.7	953.9	625.8
75°	5340.2	5201.2	5689.1	7300.4	8961.8	9050.8	6358.8	2383.5	914.8	587.9	440.3
77.5°	2434.7	2495.7	3131.2	4897.4	6906.4	7011.3	4180.2	1030.7	501.3	412.3	324.5
80°	781.9	820.9	1218.6	2434.7	4329.0	4518.1	1932.1	468.4	357.4	315.9	242.7
82.5°	298.8	297.6	511.1	1012.4	2051.7	2172.4	706.3	285.4	265.9	233.0	172.0
85°	104.9	109.8	192.7	400.1	807.5	845.3	245.2	158.6	184.2	156.1	98.8
87.5°	36.6	37.8	68.3	145.2	278.1	294.0	68.3	63.4	91.5	90.3	50.0
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°	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0
2.5°	1671.1	1682.1	1685.7	1729.7	1729.7	1729.7	1746.7	1746.7	1741.9	1729.7	1758.9
5°	1678.4	1697.9	1735.8	1773.6	1783.3	1791.9	1815.0	1795.5	1802.8	1790.6	1801.6
7.5°	1699.2	1726.0	1796.7	1819.9	1804.1	1822.4	1798.0	1784.5	1771.1	1776.0	1758.9
10°	1734.5	1768.7	1801.6	1844.3	1813.8	1795.5	1745.5	1733.3	1690.6	1676.0	1689.4
12.5°	1778.5	1819.9	1876.0	1860.2	1801.6	1749.2	1695.5	1644.3	1618.7	1582.1	1591.8
15°	1822.4	1869.9	1878.5	1851.6	1778.5	1712.6	1615.0	1543.0	1517.4	1484.5	1501.6
17.5°	1869.9	1915.1	1900.4	1830.9	1732.1	1632.1	1521.1	1450.3	1396.7	1375.9	1375.9
20°	1940.7	1962.6	1939.5	1796.7	1676.0	1544.3	1436.9	1356.4	1302.7	1294.2	1280.8
22.5°	1995.6	2030.9	1927.3	1746.7	1594.3	1429.6	1306.4	1275.9	1260.0	1246.6	1229.5
25°	2066.3	2065.1	1905.3	1700.4	1454.0	1293.0	1218.6	1216.1	1208.8	1203.9	1227.1
27.5°	2133.4	2105.4	1879.7	1585.7	1308.8	1189.3	1149.0	1175.9	1186.9	1179.5	1189.3
30°	2239.5	2193.2	1843.1	1463.7	1180.8	1084.4	1091.7	1128.3	1146.6	1157.6	1142.9
32.5°	2351.8	2281.0	1767.5	1336.9	1067.3	1018.5	1035.6	1073.4	1095.4	1107.6	1121.0
35°	2514.0	2349.3	1690.6	1171.0	985.6	978.3	988.0	1008.8	1040.5	1049.0	1052.7
37.5°	2714.0	2453.0	1586.9	1038.0	922.2	930.7	940.5	947.8	949.0	964.9	958.8
40°	2914.1	2540.8	1435.7	911.2	856.3	902.6	897.8	884.3	873.4	858.7	855.1
42.5°	3089.7	2617.7	1267.4	803.8	797.7	873.4	857.5	823.4	797.7	786.8	768.5
45°	3287.3	2726.2	1097.8	736.8	752.6	838.0	833.1	780.7	747.7	708.7	703.8
47.5°	3543.5	2839.7	935.6	667.2	709.9	824.6	827.0	759.9	712.4	659.9	652.6
50°	3871.6	3003.1	812.4	637.9	684.3	805.1	808.7	731.9	669.7	616.0	611.1
52.5°	4186.3	3170.2	709.9	592.8	667.2	781.9	790.4	706.3	634.3	567.2	570.9
55°	4344.9	3109.2	622.1	559.9	628.2	744.1	775.8	688.0	580.6	534.3	533.0
57.5°	4380.3	2959.2	552.6	525.7	595.3	703.8	751.4	633.1	556.2	517.2	512.3
60°	4264.4	2697.0	497.7	489.1	553.8	662.3	695.3	603.8	531.8	500.1	492.8
62.5°	3978.9	2424.9	459.9	472.1	518.4	617.2	659.9	583.1	508.7	486.7	470.8
65°	3262.9	1994.4	429.4	439.1	481.8	573.3	637.9	559.9	487.9	467.2	466.0
67.5°	2260.3	1374.7	405.0	423.3	452.5	541.6	616.0	534.3	461.1	453.8	444.0
70°	1157.6	733.1	373.3	387.9	420.8	501.3	577.0	507.4	433.0	431.8	419.6
72.5°	586.7	429.4	336.7	358.6	381.8	448.9	528.2	472.1	397.7	384.2	364.7
73°	507.4	397.7	330.6	350.1	372.0	434.2	513.5	463.5	392.8	373.3	355.0
75°	369.6	313.5	296.4	315.9	333.0	391.6	464.7	424.5	361.1	340.3	323.2
77.5°	276.9	241.5	246.4	268.4	283.0	337.9	413.5	384.2	326.9	298.8	291.5
80°	203.7	184.2	203.7	224.4	235.4	297.6	376.9	333.0	275.7	244.0	237.9
82.5°	145.2	134.2	157.4	170.8	175.6	246.4	339.1	265.9	208.6	167.1	153.7
85°	82.9	81.7	106.1	104.9	108.6	143.9	223.2	176.9	134.2	102.5	100.0
87.5°	36.6	40.3	53.7	42.7	45.1	68.3	95.1	65.9	54.9	30.5	23.2
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)