

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: P483575

Luminaire Tested: **IFLD-S-SA2D-735-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483575
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-735-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

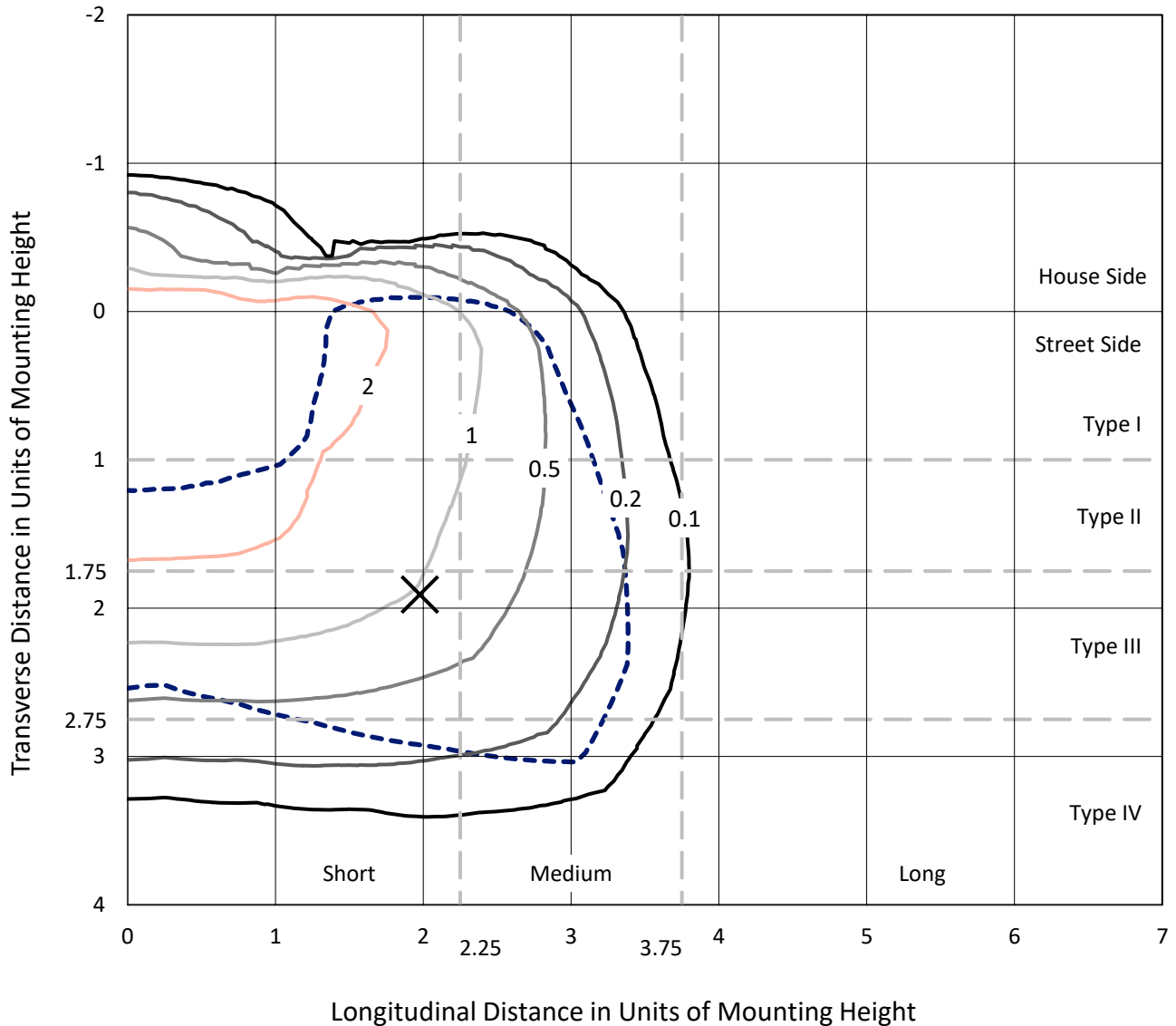
Lumens per Lamp: N/A
Luminaire Lumens: 11381.3 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 123.9
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

REPORT NUMBER: P483575
 CATALOG NUMBER: IFLD-S-SA2D-735-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

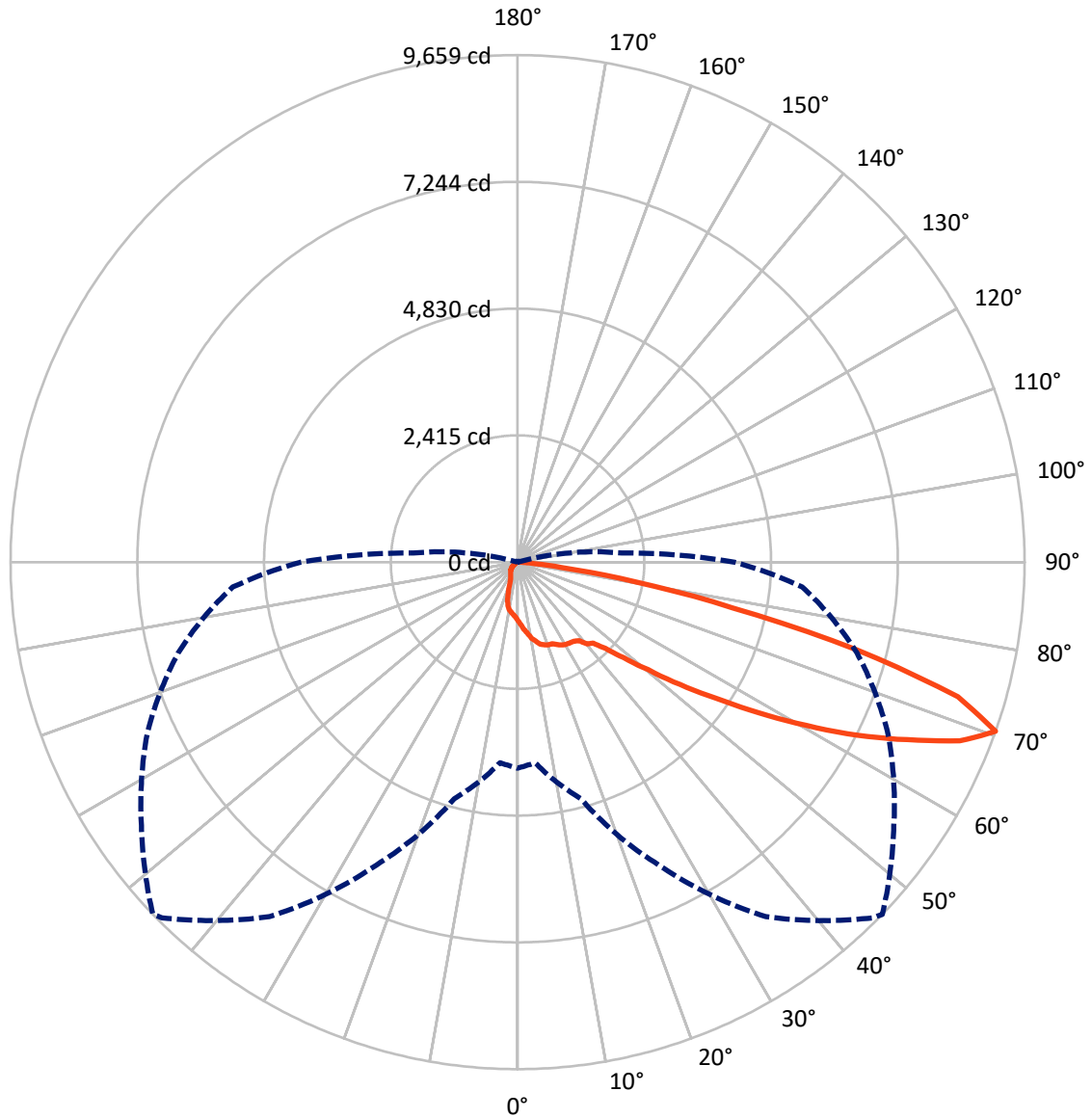
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P483575
CATALOG NUMBER: IFLD-S-SA2D-735-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P483575
 CATALOG NUMBER: IFLD-S-SA2D-735-U-T4W-HSS

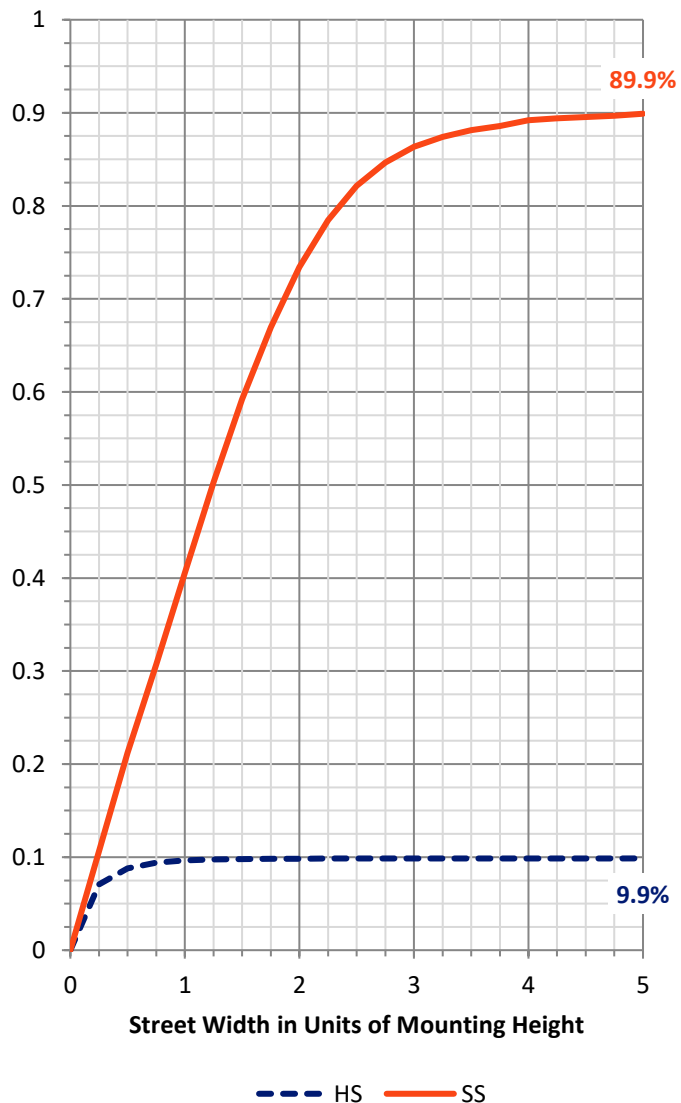
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1132.5	0.0	1132.5
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	10248.8	0.0	10248.8
	% Fixture	90.0	0.0	90.0
Total	Lumens	11381.3	0.0	11381.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	1.0
10°-20°	336.4	3.0
20°-30°	538.9	4.7
30°-40°	769.2	6.8
40°-50°	1328.2	11.7
50°-60°	2543.0	22.3
60°-70°	3765.8	33.1
70°-80°	1865.1	16.4
80°-90°	123.2	1.1
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°	11381.3	100.0
0°-180°	11381.3	100.0

Coefficient of Utilization



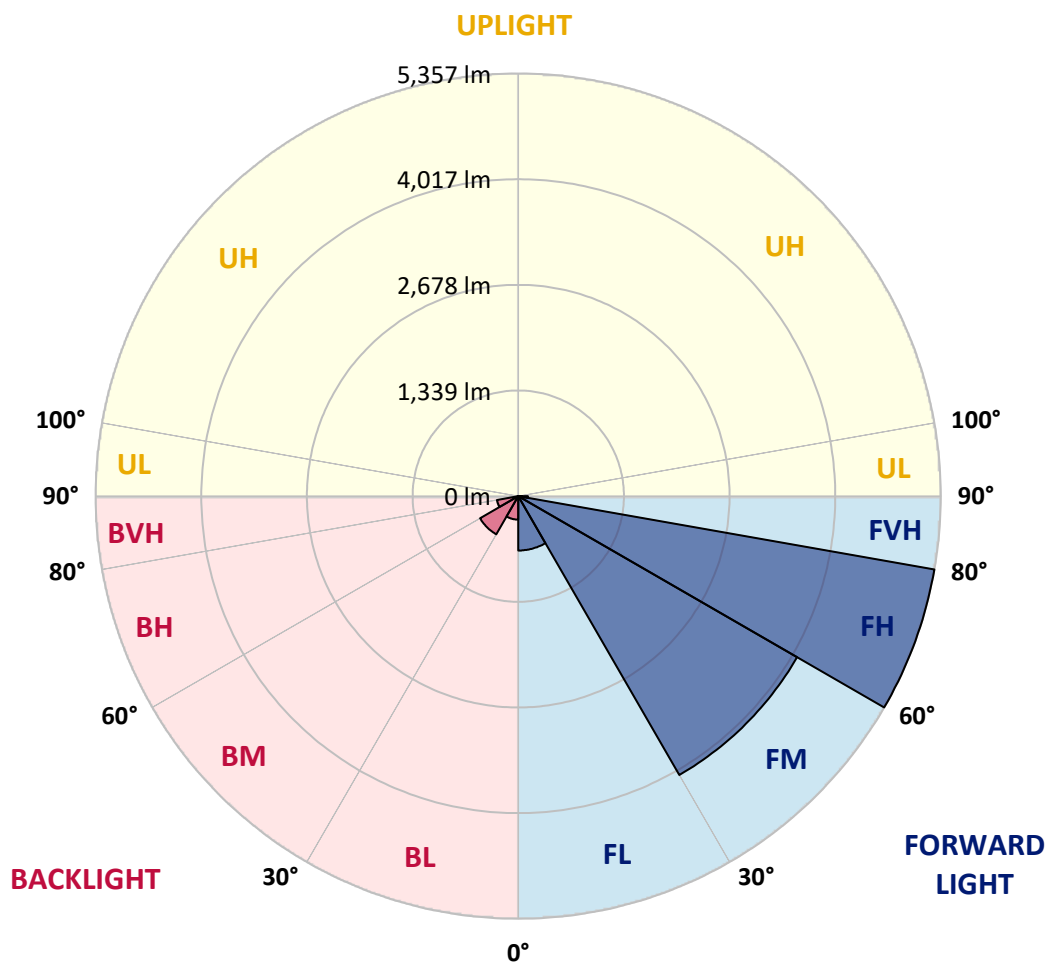
REPORT NUMBER: P483575
 CATALOG NUMBER: IFLD-S-SA2D-735-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	689.2	6.1			
FM (30°-60°)	4081.3	35.9			
FH (60°-80°)	5356.6	47.1			G3/7500
FVH (80°-90°)	121.7	1.1			G2/225
BL (0°-30°)	297.5	2.6	B1/500		
BM (30°-60°)	559.1	4.9	B1/1000		
BH (60°-80°)	274.3	2.4	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





REPORT NUMBER: P483575

CATALOG NUMBER: IFLD-S-SA2D-735-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1117.3	1117.3	1117.3	1117.3	1117.3	1117.3	1117.3	1117.3	1117.3	1117.3	1117.3
2.5°	1246.7	1238.5	1225.4	1220.5	1207.4	1200.8	1191.0	1186.1	1168.1	1150.1	1138.6
5°	1399.1	1379.4	1386.0	1366.3	1323.7	1289.3	1287.7	1250.0	1209.0	1176.3	1132.0
7.5°	1553.1	1536.7	1512.1	1484.3	1436.7	1386.0	1371.2	1335.2	1277.8	1220.5	1161.5
10°	1669.4	1657.9	1636.6	1597.3	1531.8	1474.4	1476.1	1415.5	1354.8	1289.3	1209.0
12.5°	1741.5	1746.4	1715.3	1675.9	1618.6	1546.5	1544.9	1503.9	1435.1	1366.3	1271.3
15°	1813.5	1831.6	1784.1	1738.2	1664.5	1612.0	1621.9	1572.7	1505.6	1426.9	1322.1
17.5°	1825.0	1829.9	1820.1	1752.9	1698.9	1654.6	1656.3	1623.5	1572.7	1487.5	1397.4
20°	1805.4	1802.1	1790.6	1741.5	1705.4	1679.2	1680.8	1672.7	1644.8	1576.0	1453.1
22.5°	1748.0	1748.0	1733.3	1700.5	1684.1	1708.7	1689.0	1720.2	1690.7	1649.7	1548.2
25°	1702.1	1720.2	1712.0	1690.7	1697.2	1730.0	1739.8	1769.3	1764.4	1713.6	1613.7
27.5°	1751.3	1730.0	1734.9	1710.3	1734.9	1784.1	1789.0	1810.3	1808.6	1767.7	1672.7
30°	1784.1	1803.7	1766.0	1712.0	1738.2	1821.7	1818.5	1846.3	1859.4	1810.3	1728.4
32.5°	1888.9	1872.5	1841.4	1769.3	1772.6	1820.1	1834.8	1870.9	1879.1	1849.6	1782.4
35°	2103.5	2078.9	1943.0	1834.8	1818.5	1841.4	1851.2	1921.7	1936.4	1903.7	1839.8
37.5°	2434.4	2378.7	2214.9	1975.7	1902.0	1897.1	1897.1	1990.5	2046.2	1970.8	1924.9
40°	2907.9	2829.3	2652.3	2236.2	2011.8	2031.4	2051.1	2101.9	2095.3	2046.2	2036.4
42.5°	3510.8	3450.2	3258.5	2673.6	2221.5	2123.2	2106.8	2175.6	2278.8	2259.2	2252.6
45°	4013.7	4017.0	3894.1	3273.2	2583.5	2334.5	2346.0	2398.4	2572.1	2557.3	2555.7
47.5°	4380.7	4334.8	4316.8	3851.5	3111.0	2735.9	2719.5	2755.5	2981.6	3075.0	3117.6
50°	4714.9	4683.8	4641.2	4413.5	3745.1	3238.8	3222.4	3225.7	3571.4	3702.5	3807.3
52.5°	5129.4	5168.7	5027.8	4888.6	4565.8	3892.5	3874.5	3810.6	4239.8	4420.0	4544.5
55°	5640.5	5566.8	5407.9	5480.0	5350.5	4598.6	4565.8	4490.5	5001.6	5077.0	5208.0
57.5°	5753.6	5697.9	5861.7	6117.2	6241.8	5427.5	5414.4	5278.5	5642.2	5573.3	5943.6
60°	6035.3	6050.1	6277.8	6785.7	7001.9	6384.3	6320.4	6081.2	6263.0	6276.2	6671.0
62.5°	6325.3	6290.9	6800.4	7288.6	7621.2	7290.2	7268.9	6793.8	7000.3	6833.2	7355.8
65°	6112.3	6164.8	6893.8	7711.3	8423.9	8176.5	8158.5	7480.3	7593.3	7385.3	7634.3
67.5°	5355.5	5249.0	6269.6	7518.0	8836.7	9105.4	9085.8	8229.0	7927.5	7382.0	7056.0
70°	3925.3	3833.5	4665.8	6366.3	8245.3	9580.5	9659.2	8749.9	7791.5	6693.9	5443.9
72.5°	1923.3	1924.9	2614.7	4316.8	6523.5	8731.9	8771.2	8022.5	6693.9	4934.4	3083.2
75°	568.5	575.0	968.2	2116.6	4216.9	6631.7	6675.9	6089.4	4639.5	2549.1	1051.8
77.5°	208.1	208.1	321.1	794.6	2103.5	4185.7	4182.5	3738.5	2349.3	863.4	245.7
80°	108.1	113.0	167.1	324.4	910.9	2180.5	2262.4	1829.9	892.8	363.7	72.1
82.5°	44.2	49.1	91.7	167.1	437.4	765.1	837.1	717.6	388.3	253.9	32.8
85°	13.1	14.7	44.2	93.4	172.0	191.7	213.0	240.8	244.1	196.6	14.7
87.5°	1.6	1.6	18.0	31.1	37.7	41.0	47.5	47.5	124.5	137.6	8.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P483575

CATALOG NUMBER: IFLD-S-SA2D-735-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1117.3	1117.3	1117.3	1117.3	1117.3	1117.3	1117.3	1117.3	1117.3	1117.3	1117.3
2.5°	1125.5	1117.3	1104.2	1074.7	1068.1	1046.8	1045.2	1025.5	1032.1	1019.0	1014.1
5°	1117.3	1099.3	1063.2	1040.3	1017.4	1002.6	992.8	984.6	983.0	976.4	973.1
7.5°	1132.0	1107.5	1051.8	1015.7	976.4	963.3	942.0	940.4	928.9	917.4	917.4
10°	1181.2	1136.9	1076.3	1015.7	964.9	922.3	873.2	837.1	824.0	794.6	797.8
12.5°	1220.5	1181.2	1092.7	1030.5	953.5	856.8	748.7	665.1	625.8	588.1	602.9
15°	1276.2	1218.9	1123.8	1033.7	909.2	742.1	565.2	471.8	435.8	427.6	425.9
17.5°	1336.8	1276.2	1163.2	1025.5	819.1	573.4	416.1	362.1	368.6	378.4	376.8
20°	1404.0	1330.3	1192.6	997.7	676.6	416.1	340.8	339.1	348.9	363.7	367.0
22.5°	1474.4	1410.5	1228.7	914.1	504.6	334.2	327.7	327.7	334.2	352.2	348.9
25°	1553.1	1467.9	1246.7	784.7	362.1	308.0	311.3	317.8	321.1	335.8	337.5
27.5°	1613.7	1531.8	1251.6	629.1	294.9	285.1	293.2	301.4	306.4	317.8	322.7
30°	1669.4	1612.0	1225.4	468.5	270.3	265.4	268.7	280.1	290.0	299.8	299.8
32.5°	1739.8	1657.9	1164.8	332.6	255.6	247.4	245.7	250.7	262.1	273.6	273.6
35°	1811.9	1734.9	1068.1	267.0	242.5	231.0	224.4	219.5	224.4	232.6	239.2
37.5°	1916.8	1851.2	946.9	245.7	232.6	216.2	203.1	191.7	183.5	181.8	186.8
40°	2065.8	1982.3	791.3	231.0	221.2	201.5	181.8	162.2	144.2	132.7	134.3
42.5°	2291.9	2175.6	622.5	222.8	213.0	185.1	157.3	129.4	106.5	95.0	95.0
45°	2614.7	2431.2	457.1	214.6	203.1	165.5	129.4	96.7	73.7	67.2	68.8
47.5°	3101.2	2739.2	327.7	201.5	190.0	144.2	101.6	68.8	54.1	50.8	52.4
50°	3736.9	3104.5	255.6	186.8	173.7	121.2	75.4	50.8	42.6	41.0	42.6
52.5°	4403.6	3473.1	224.4	173.7	149.1	96.7	55.7	41.0	36.0	34.4	36.0
55°	4973.7	3710.6	195.0	154.0	119.6	72.1	44.2	36.0	31.1	26.2	26.2
57.5°	5550.4	3830.2	154.0	127.8	88.5	54.1	37.7	31.1	26.2	21.3	19.7
60°	6018.9	3915.4	109.8	95.0	62.3	42.6	32.8	27.9	21.3	16.4	14.7
62.5°	6326.9	3671.3	80.3	72.1	45.9	36.0	27.9	22.9	16.4	11.5	11.5
65°	6174.6	3333.8	62.3	50.8	34.4	27.9	22.9	16.4	11.5	6.6	4.9
67.5°	5540.6	2716.2	50.8	37.7	26.2	21.3	18.0	13.1	6.6	1.6	1.6
70°	4133.3	1990.5	41.0	27.9	21.3	16.4	13.1	8.2	3.3	1.6	0.0
72.5°	2260.8	1089.4	32.8	22.9	16.4	13.1	9.8	6.6	3.3	0.0	0.0
75°	747.0	290.0	24.6	16.4	9.8	8.2	6.6	4.9	1.6	0.0	0.0
77.5°	180.2	75.4	19.7	14.7	8.2	4.9	3.3	1.6	1.6	0.0	0.0
80°	55.7	31.1	14.7	9.8	6.6	4.9	1.6	0.0	0.0	0.0	0.0
82.5°	22.9	14.7	6.6	6.6	4.9	1.6	0.0	0.0	0.0	0.0	0.0
85°	11.5	8.2	4.9	3.3	3.3	1.6	0.0	0.0	0.0	0.0	0.0
87.5°	8.2	3.3	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)