

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: P483617

Luminaire Tested: **IFLD-S-SA3B-740-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483617
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-740-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

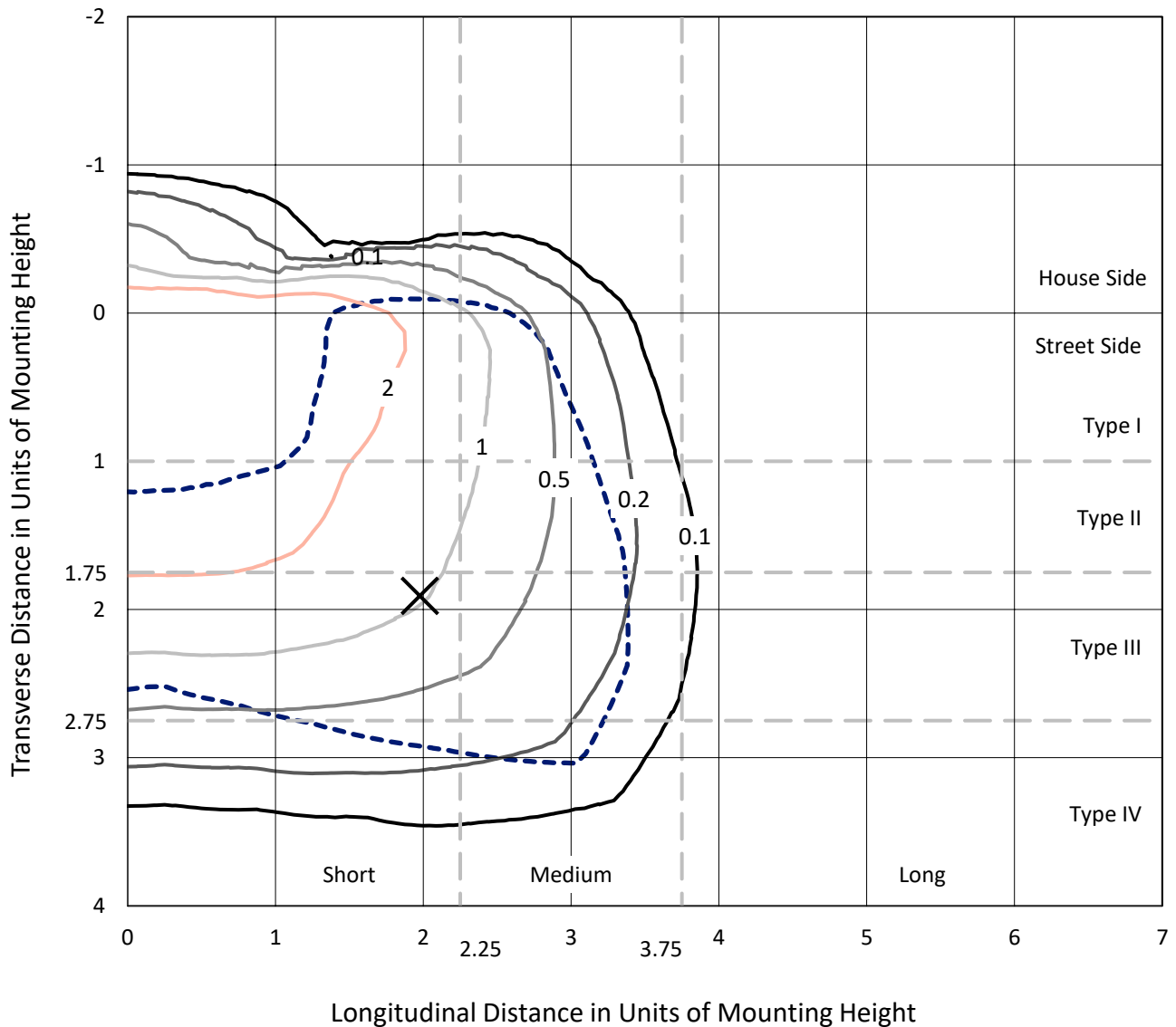
Lumens per Lamp: N/A
Luminaire Lumens: 12554.9 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 122.4
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

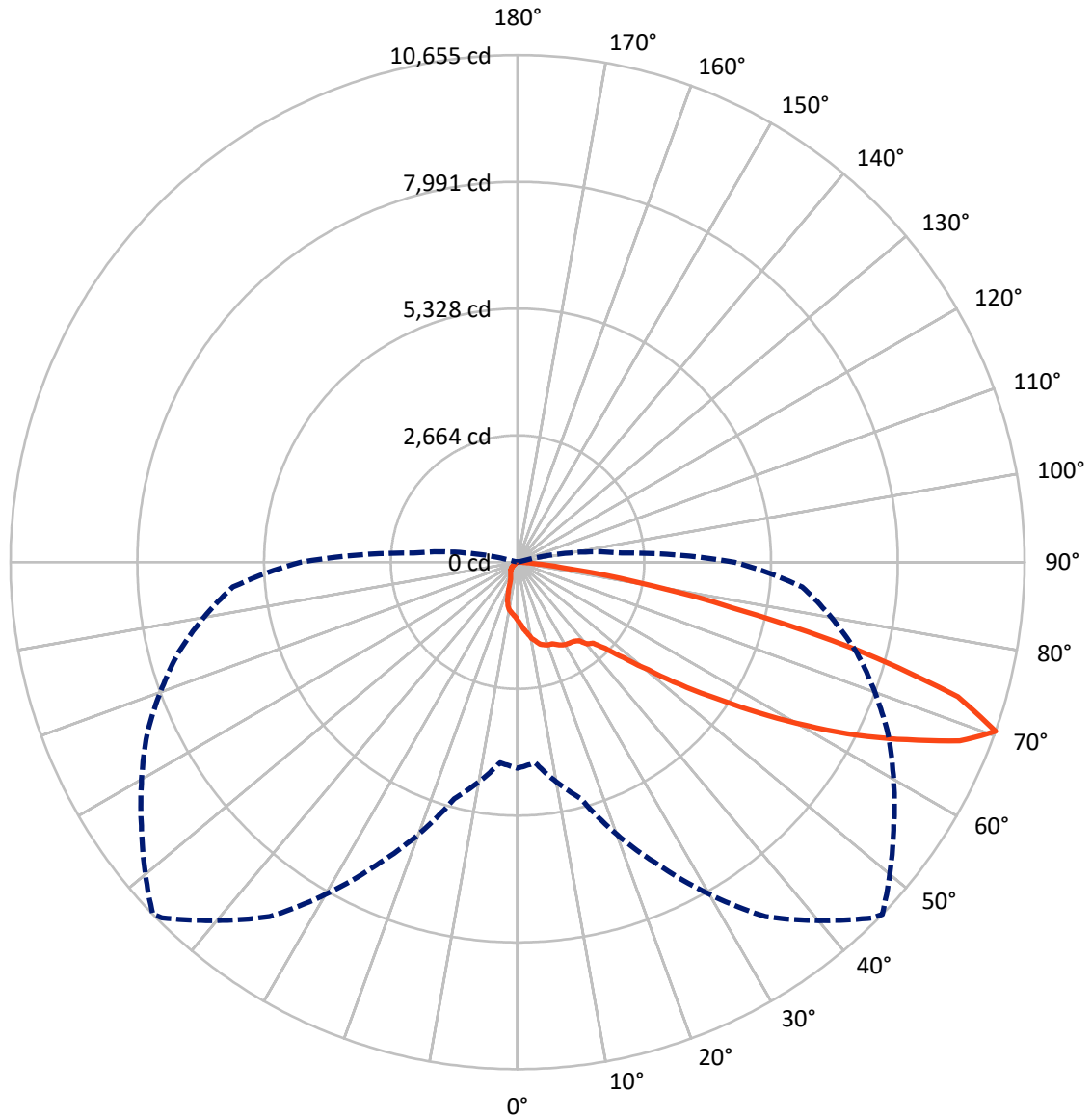
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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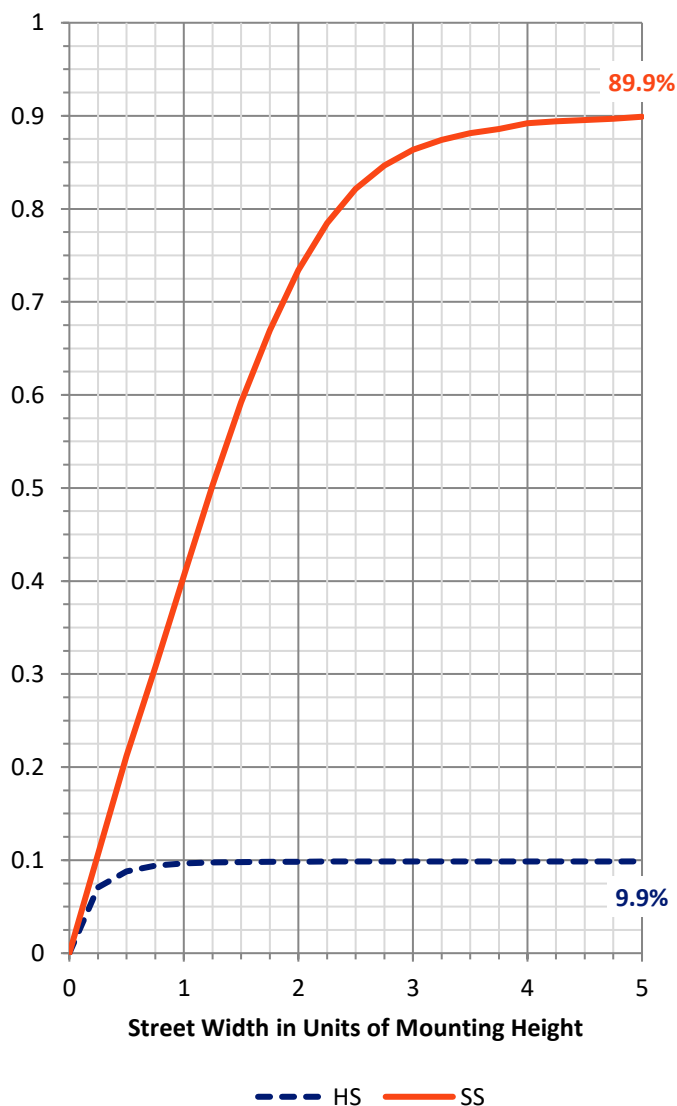
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1249.2	0.0	1249.2
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	11305.7	0.0	11305.7
	% Fixture	90.0	0.0	90.0
Total	Lumens	12554.9	0.0	12554.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.9	1.0
10°-20°	371.1	3.0
20°-30°	594.5	4.7
30°-40°	848.5	6.8
40°-50°	1465.2	11.7
50°-60°	2805.2	22.3
60°-70°	4154.1	33.1
70°-80°	2057.5	16.4
80°-90°	136.0	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°	12554.9	100.0
0°-180°	12554.9	100.0

Coefficient of Utilization



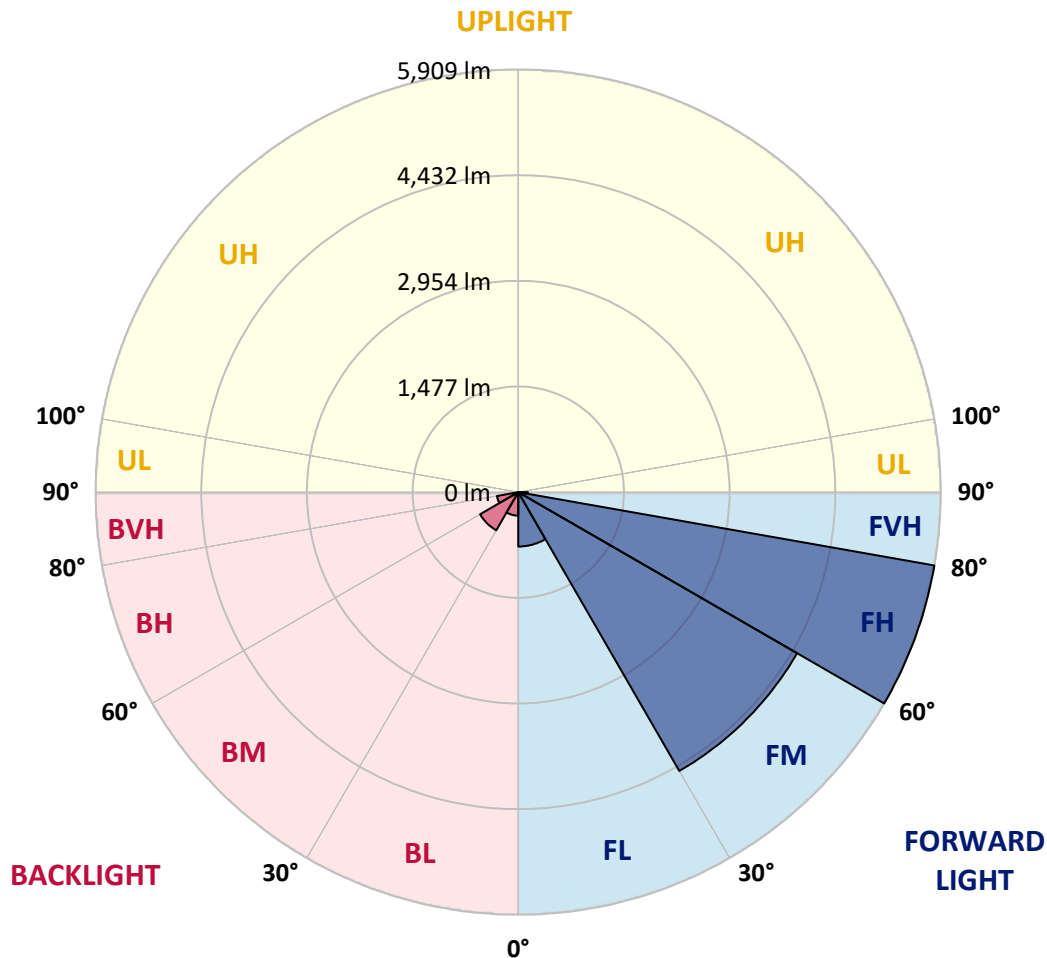
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	760.3	6.1			
FM (30°-60°)	4502.2	35.9			
FH (60°-80°)	5909.0	47.1			G3/7500
FVH (80°-90°)	134.2	1.1			G2/225
BL (0°-30°)	328.2	2.6	B1/500		
BM (30°-60°)	616.8	4.9	B1/1000		
BH (60°-80°)	302.6	2.4	B1/500		G1/500
BVH (80°-90°)	1.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5
2.5°	1375.3	1366.2	1351.8	1346.4	1331.9	1324.7	1313.8	1308.4	1288.5	1268.6	1256.0
5°	1543.3	1521.7	1528.9	1507.2	1460.2	1422.3	1420.4	1378.9	1333.7	1297.6	1248.8
7.5°	1713.2	1695.1	1668.0	1637.3	1584.9	1528.9	1512.6	1472.9	1409.6	1346.4	1281.3
10°	1841.5	1828.9	1805.4	1762.0	1689.7	1626.5	1628.3	1561.4	1494.5	1422.3	1333.7
12.5°	1921.0	1926.5	1892.1	1848.8	1785.5	1706.0	1704.2	1659.0	1583.1	1507.2	1402.4
15°	2000.6	2020.4	1968.0	1917.4	1836.1	1778.3	1789.1	1734.9	1660.8	1574.1	1458.4
17.5°	2013.2	2018.6	2007.8	1933.7	1874.1	1825.3	1827.1	1790.9	1734.9	1640.9	1541.5
20°	1991.5	1987.9	1975.3	1921.0	1881.3	1852.4	1854.2	1845.1	1814.4	1738.5	1603.0
22.5°	1928.3	1928.3	1912.0	1875.9	1857.8	1884.9	1863.2	1897.5	1865.0	1819.8	1707.8
25°	1877.7	1897.5	1888.5	1865.0	1872.2	1908.4	1919.2	1951.8	1946.3	1890.3	1780.1
27.5°	1931.9	1908.4	1913.8	1886.7	1913.8	1968.0	1973.4	1996.9	1995.1	1950.0	1845.1
30°	1968.0	1989.7	1948.1	1888.5	1917.4	2009.6	2006.0	2036.7	2051.2	1996.9	1906.6
32.5°	2083.7	2065.6	2031.3	1951.8	1955.4	2007.8	2024.0	2063.8	2072.8	2040.3	1966.2
35°	2320.4	2293.3	2143.3	2024.0	2006.0	2031.3	2042.1	2119.8	2136.1	2100.0	2029.5
37.5°	2685.5	2624.0	2443.3	2179.5	2098.1	2092.7	2092.7	2195.7	2257.2	2174.0	2123.4
40°	3207.8	3121.0	2925.8	2466.8	2219.2	2240.9	2262.6	2318.6	2311.4	2257.2	2246.3
42.5°	3872.8	3805.9	3594.5	2949.3	2450.5	2342.1	2324.0	2399.9	2513.8	2492.1	2484.9
45°	4427.6	4431.2	4295.7	3610.8	2849.9	2575.2	2587.9	2645.7	2837.3	2821.0	2819.2
47.5°	4832.4	4781.8	4761.9	4248.7	3431.8	3018.0	2999.9	3039.7	3289.1	3392.1	3439.1
50°	5201.1	5166.7	5119.8	4868.6	4131.2	3572.8	3554.7	3558.4	3939.7	4084.2	4199.9
52.5°	5658.3	5701.7	5546.3	5392.6	5036.6	4293.9	4274.0	4203.5	4677.0	4875.8	5013.1
55°	6222.1	6140.8	5965.5	6045.0	5902.3	5072.8	5036.6	4953.5	5517.3	5600.5	5745.0
57.5°	6346.8	6285.4	6466.1	6748.0	6885.4	5987.2	5972.8	5822.8	6224.0	6148.0	6556.5
60°	6657.7	6673.9	6925.1	7485.4	7723.9	7042.6	6972.1	6708.3	6908.9	6923.3	7358.9
62.5°	6977.5	6939.6	7501.6	8040.2	8407.0	8042.0	8018.5	7494.4	7722.1	7537.8	8114.3
65°	6742.6	6800.4	7604.6	8506.4	9292.6	9019.7	8999.8	8251.6	8376.3	8146.8	8421.5
67.5°	5907.7	5790.2	6916.1	8293.2	9748.0	10044.3	10022.7	9077.5	8745.0	8143.2	7783.6
70°	4330.0	4228.8	5146.9	7022.7	9095.6	10568.4	10655.2	9652.2	8595.0	7384.2	6005.3
72.5°	2121.6	2123.4	2884.3	4761.9	7196.2	9632.3	9675.7	8849.8	7384.2	5443.2	3401.1
75°	627.1	634.3	1068.0	2334.9	4651.7	7315.5	7364.3	6717.3	5118.0	2812.0	1160.2
77.5°	229.5	229.5	354.2	876.5	2320.4	4617.4	4613.7	4124.0	2591.5	952.4	271.1
80°	119.3	124.7	184.3	357.8	1004.8	2405.4	2495.7	2018.6	984.9	401.2	79.5
82.5°	48.8	54.2	101.2	184.3	482.5	844.0	923.5	791.5	428.3	280.1	36.1
85°	14.5	16.3	48.8	103.0	189.8	211.4	234.9	265.7	269.3	216.9	16.3
87.5°	1.8	1.8	19.9	34.3	41.6	45.2	52.4	52.4	137.3	151.8	9.0
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°	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5
2.5°	1241.5	1232.5	1218.0	1185.5	1178.3	1154.8	1153.0	1131.3	1138.5	1124.1	1118.6
5°	1232.5	1212.6	1172.9	1147.6	1122.3	1106.0	1095.2	1086.1	1084.3	1077.1	1073.5
7.5°	1248.8	1221.7	1160.2	1120.5	1077.1	1062.6	1039.1	1037.3	1024.7	1012.0	1012.0
10°	1303.0	1254.2	1187.3	1120.5	1064.4	1017.4	963.2	923.5	909.0	876.5	880.1
12.5°	1346.4	1303.0	1205.4	1136.7	1051.8	945.2	825.9	733.7	690.3	648.8	665.0
15°	1407.8	1344.5	1239.7	1140.3	1003.0	818.7	623.5	520.5	480.7	471.7	469.9
17.5°	1474.7	1407.8	1283.1	1131.3	903.6	632.5	459.0	399.4	406.6	417.5	415.7
20°	1548.8	1467.4	1315.6	1100.6	746.4	459.0	375.9	374.1	384.9	401.2	404.8
22.5°	1626.5	1556.0	1355.4	1008.4	556.6	368.7	361.4	361.4	368.7	388.5	384.9
25°	1713.2	1619.2	1375.3	865.6	399.4	339.8	343.4	350.6	354.2	370.5	372.3
27.5°	1780.1	1689.7	1380.7	694.0	325.3	314.5	323.5	332.5	337.9	350.6	356.0
30°	1841.5	1778.3	1351.8	516.9	298.2	292.8	296.4	309.0	319.9	330.7	330.7
32.5°	1919.2	1828.9	1284.9	366.9	281.9	272.9	271.1	276.5	289.1	301.8	301.8
35°	1998.7	1913.8	1178.3	294.6	267.5	254.8	247.6	242.2	247.6	256.6	263.8
37.5°	2114.4	2042.1	1044.6	271.1	256.6	238.5	224.1	211.4	202.4	200.6	206.0
40°	2278.9	2186.7	872.9	254.8	244.0	222.3	200.6	178.9	159.0	146.4	148.2
42.5°	2528.3	2399.9	686.7	245.8	234.9	204.2	173.5	142.8	117.5	104.8	104.8
45°	2884.3	2681.9	504.2	236.7	224.1	182.5	142.8	106.6	81.3	74.1	75.9
47.5°	3421.0	3021.6	361.4	222.3	209.6	159.0	112.0	75.9	59.6	56.0	57.8
50°	4122.2	3424.6	281.9	206.0	191.6	133.7	83.1	56.0	47.0	45.2	47.0
52.5°	4857.7	3831.2	247.6	191.6	164.5	106.6	61.4	45.2	39.8	38.0	39.8
55°	5486.6	4093.3	215.1	169.9	131.9	79.5	48.8	39.8	34.3	28.9	28.9
57.5°	6122.7	4225.2	169.9	141.0	97.6	59.6	41.6	34.3	28.9	23.5	21.7
60°	6639.6	4319.2	121.1	104.8	68.7	47.0	36.1	30.7	23.5	18.1	16.3
62.5°	6979.4	4049.9	88.6	79.5	50.6	39.8	30.7	25.3	18.1	12.7	12.7
65°	6811.3	3677.6	68.7	56.0	38.0	30.7	25.3	18.1	12.7	7.2	5.4
67.5°	6111.9	2996.3	56.0	41.6	28.9	23.5	19.9	14.5	7.2	1.8	1.8
70°	4559.5	2195.7	45.2	30.7	23.5	18.1	14.5	9.0	3.6	1.8	0.0
72.5°	2493.9	1201.8	36.1	25.3	18.1	14.5	10.8	7.2	3.6	0.0	0.0
75°	824.1	319.9	27.1	18.1	10.8	9.0	7.2	5.4	1.8	0.0	0.0
77.5°	198.8	83.1	21.7	16.3	9.0	5.4	3.6	1.8	1.8	0.0	0.0
80°	61.4	34.3	16.3	10.8	7.2	5.4	1.8	0.0	0.0	0.0	0.0
82.5°	25.3	16.3	7.2	7.2	5.4	1.8	0.0	0.0	0.0	0.0	0.0
85°	12.7	9.0	5.4	3.6	3.6	1.8	0.0	0.0	0.0	0.0	0.0
87.5°	9.0	3.6	1.8	1.8	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)