

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: P483578

Luminaire Tested: **IFLD-S-SA3B-735-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483578
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-735-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

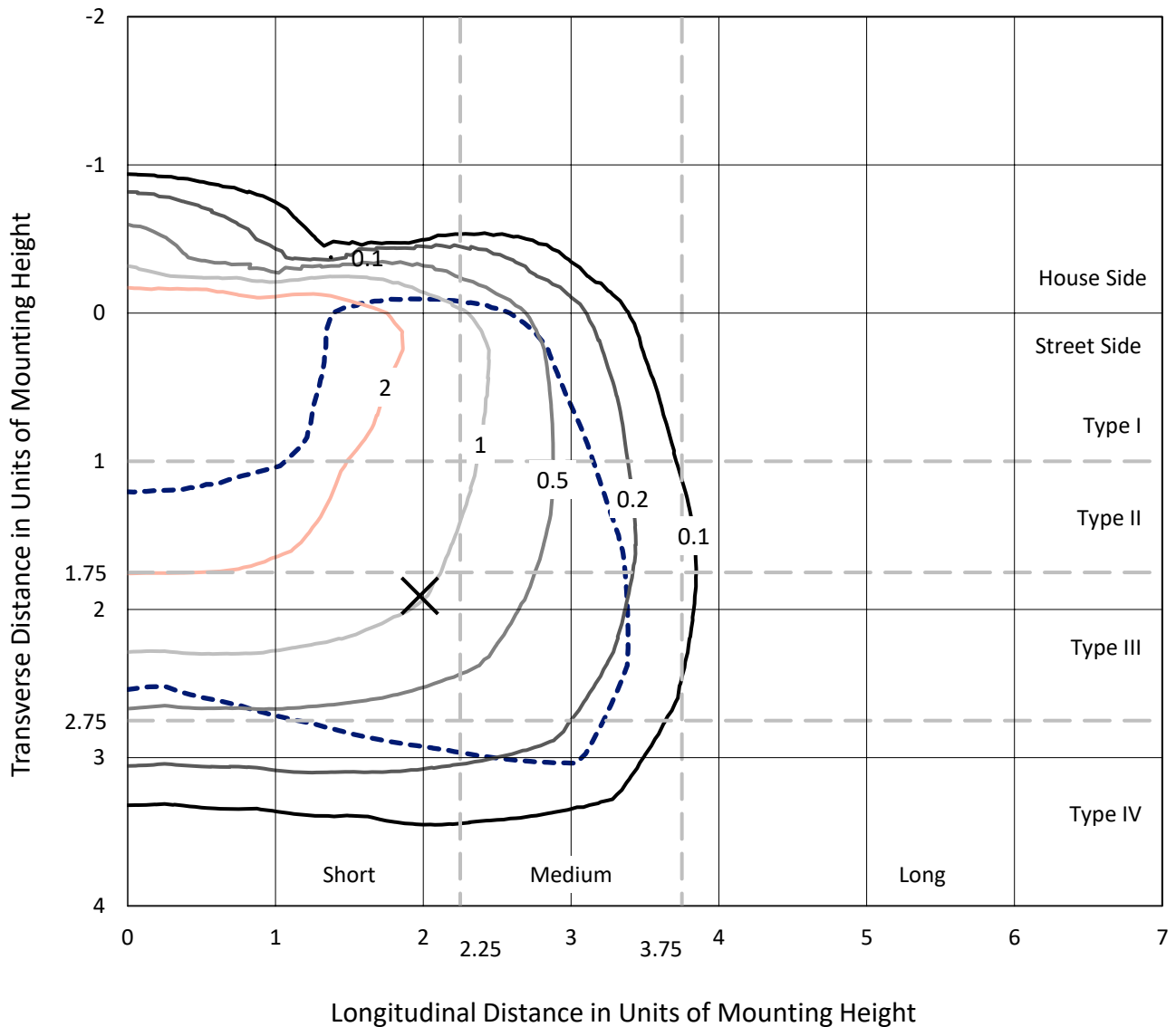
Lumens per Lamp: N/A
Luminaire Lumens: 12382.9 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

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

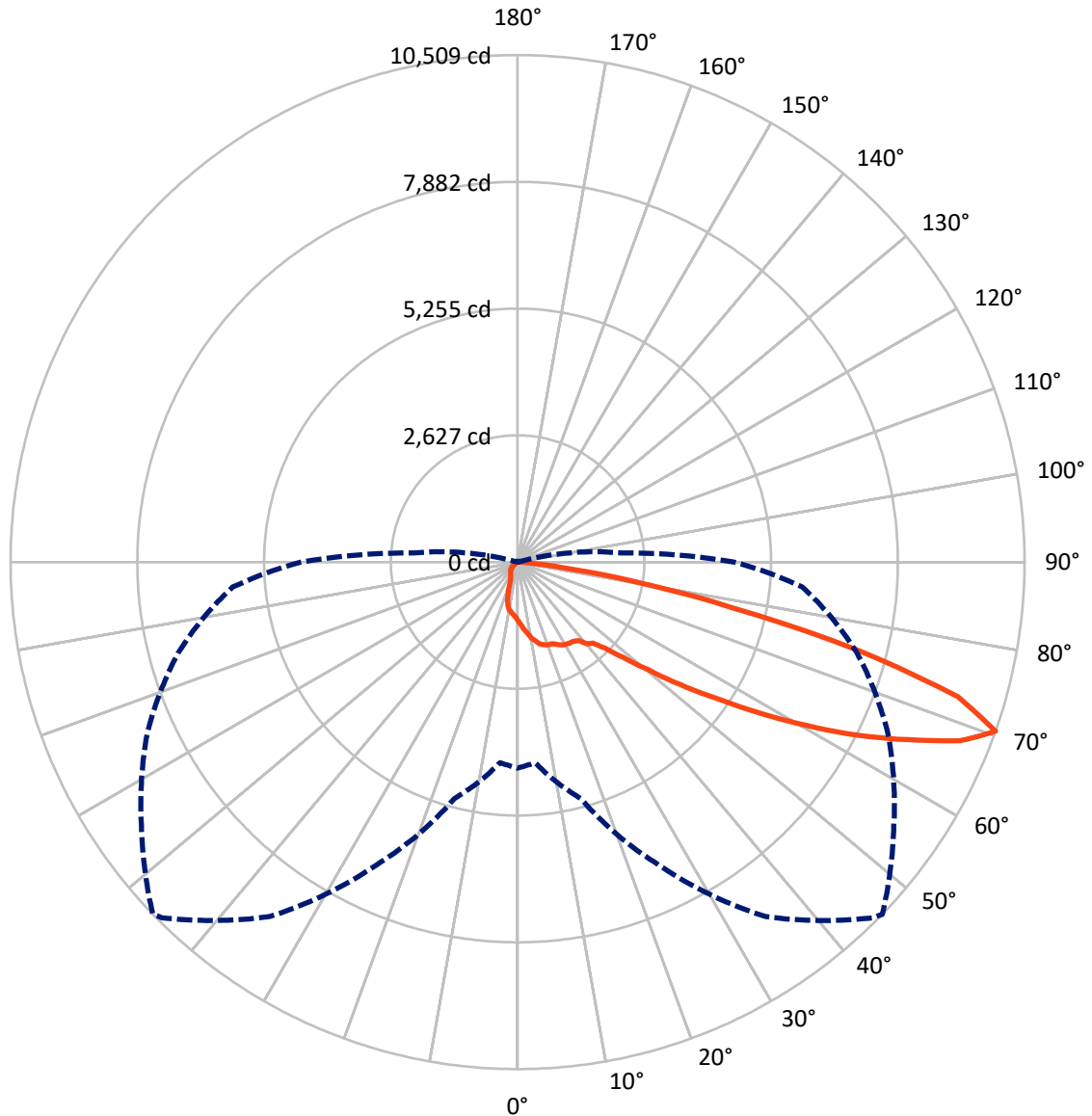
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 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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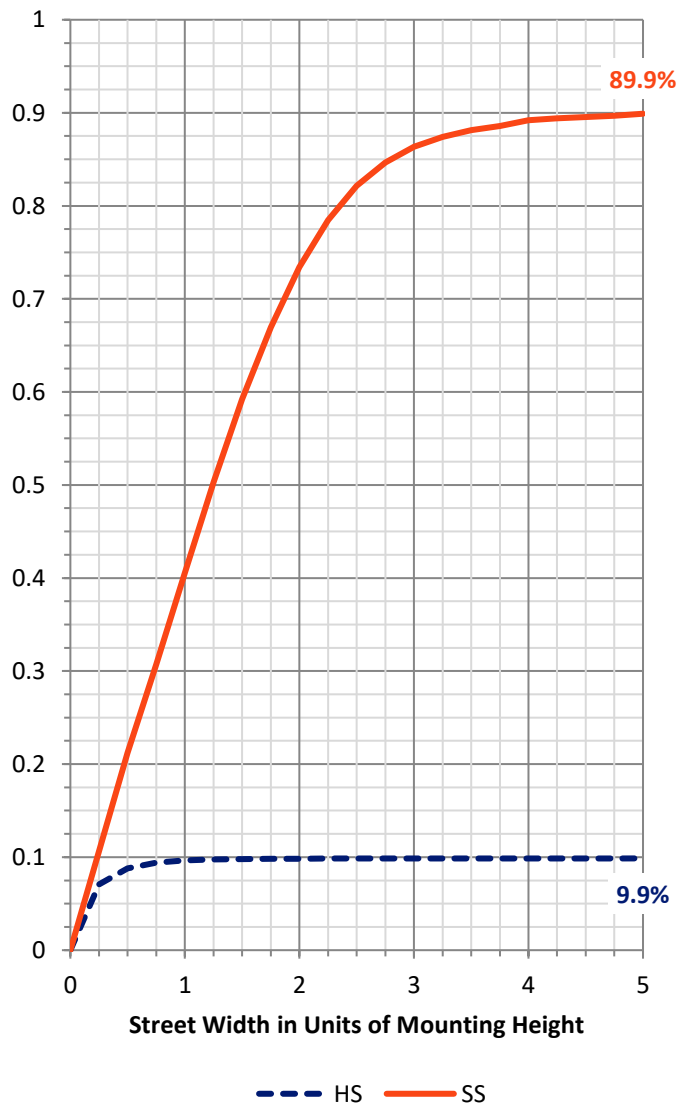
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1232.1	0.0	1232.1
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	11150.8	0.0	11150.8
	% Fixture	90.0	0.0	90.0
Total	Lumens	12382.9	0.0	12382.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.2	1.0
10°-20°	366.0	3.0
20°-30°	586.3	4.7
30°-40°	836.9	6.8
40°-50°	1445.1	11.7
50°-60°	2766.8	22.3
60°-70°	4097.2	33.1
70°-80°	2029.3	16.4
80°-90°	134.1	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°	12382.9	100.0
0°-180°	12382.9	100.0

Coefficient of Utilization



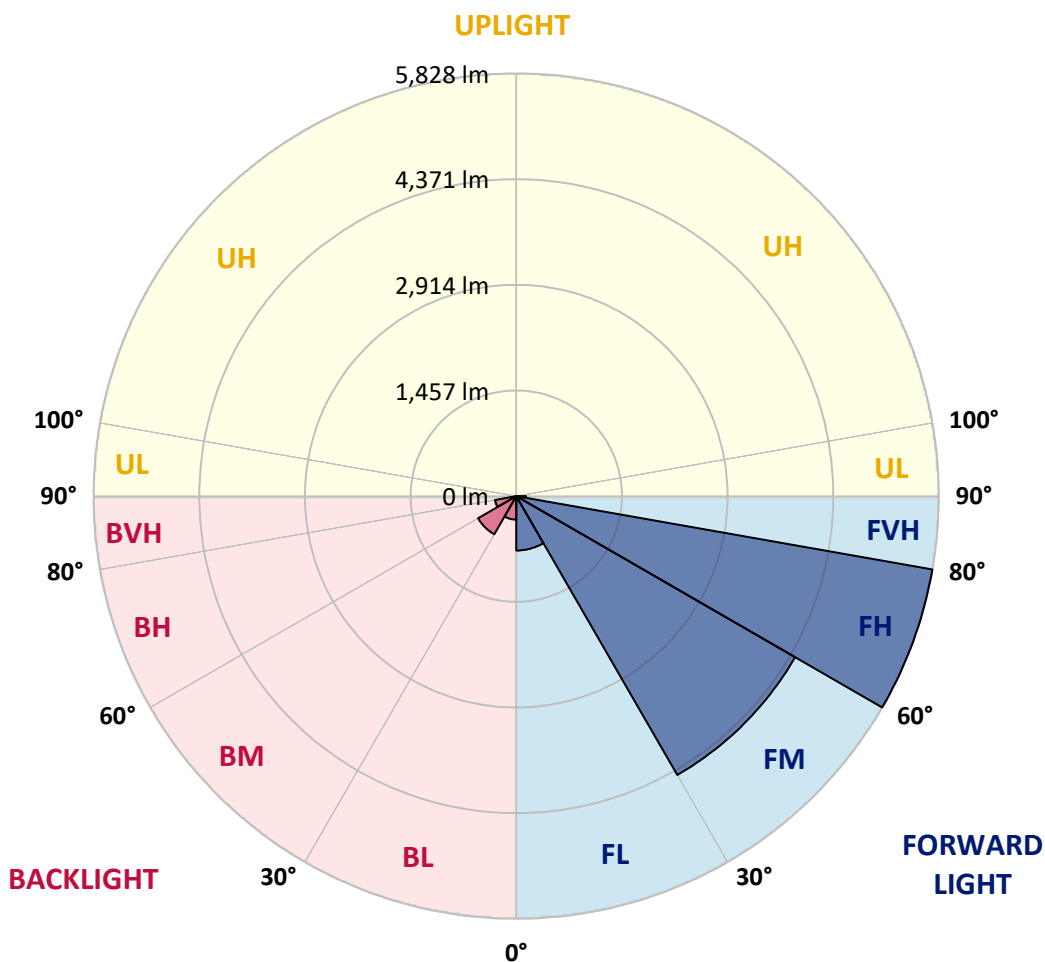
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	749.9	6.1			
FM (30°-60°)	4440.5	35.9			
FH (60°-80°)	5828.0	47.1			G3/7500
FVH (80°-90°)	132.4	1.1			G2/225
BL (0°-30°)	323.7	2.6	B1/500		
BM (30°-60°)	608.3	4.9	B1/1000		
BH (60°-80°)	298.4	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°	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6
2.5°	1356.4	1347.5	1333.3	1327.9	1313.6	1306.5	1295.8	1290.5	1270.9	1251.3	1238.8
5°	1522.2	1500.8	1507.9	1486.5	1440.2	1402.8	1401.0	1360.0	1315.4	1279.8	1231.7
7.5°	1689.7	1671.9	1645.2	1614.9	1563.2	1507.9	1491.9	1452.7	1390.3	1327.9	1263.7
10°	1816.3	1803.8	1780.6	1737.9	1666.6	1604.2	1606.0	1540.0	1474.1	1402.8	1315.4
12.5°	1894.7	1900.1	1866.2	1823.4	1761.0	1682.6	1680.8	1636.3	1561.4	1486.5	1383.2
15°	1973.1	1992.8	1941.1	1891.2	1810.9	1753.9	1764.6	1711.1	1638.1	1552.5	1438.4
17.5°	1985.6	1991.0	1980.3	1907.2	1848.4	1800.3	1802.0	1766.4	1711.1	1618.4	1520.4
20°	1964.2	1960.7	1948.2	1894.7	1855.5	1827.0	1828.8	1819.9	1789.6	1714.7	1581.0
22.5°	1901.9	1901.9	1885.8	1850.2	1832.3	1859.1	1837.7	1871.5	1839.5	1794.9	1684.4
25°	1851.9	1871.5	1862.6	1839.5	1846.6	1882.2	1892.9	1925.0	1919.7	1864.4	1755.7
27.5°	1905.4	1882.2	1887.6	1860.9	1887.6	1941.1	1946.4	1969.6	1967.8	1923.2	1819.9
30°	1941.1	1962.5	1921.5	1862.6	1891.2	1982.1	1978.5	2008.8	2023.1	1969.6	1880.5
32.5°	2055.1	2037.3	2003.4	1925.0	1928.6	1980.3	1996.3	2035.5	2044.4	2012.4	1939.3
35°	2288.6	2261.9	2114.0	1996.3	1978.5	2003.4	2014.1	2090.8	2106.8	2071.2	2001.7
37.5°	2648.7	2588.1	2409.8	2149.6	2069.4	2064.1	2064.1	2165.7	2226.3	2144.3	2094.4
40°	3163.8	3078.3	2885.8	2433.0	2188.8	2210.2	2231.6	2286.9	2279.7	2226.3	2215.6
42.5°	3819.7	3753.8	3545.2	2908.9	2417.0	2310.0	2292.2	2367.1	2479.4	2458.0	2450.8
45°	4366.9	4370.5	4236.8	3561.3	2810.9	2540.0	2552.4	2609.5	2798.4	2782.4	2780.6
47.5°	4766.2	4716.3	4696.7	4190.5	3384.8	2976.7	2958.8	2998.0	3244.0	3345.6	3392.0
50°	5129.8	5096.0	5049.6	4801.9	4074.6	3523.9	3506.0	3509.6	3885.7	4028.3	4142.4
52.5°	5580.8	5623.6	5470.3	5318.8	4967.6	4235.0	4215.4	4145.9	4612.9	4809.0	4944.5
55°	6136.9	6056.7	5883.8	5962.2	5821.4	5003.3	4967.6	4885.6	5441.8	5523.7	5666.3
57.5°	6259.9	6199.3	6377.5	6655.6	6791.1	5905.2	5890.9	5743.0	6138.7	6063.8	6466.6
60°	6566.5	6582.5	6830.3	7382.8	7618.1	6946.1	6876.6	6616.4	6814.2	6828.5	7258.0
62.5°	6882.0	6844.5	7398.9	7930.0	8291.9	7931.8	7908.6	7391.7	7616.3	7434.5	8003.1
65°	6650.2	6707.3	7500.5	8389.9	9165.2	8896.1	8876.5	8138.6	8261.6	8035.2	8306.1
67.5°	5826.8	5710.9	6821.4	8179.6	9614.4	9906.7	9885.3	8953.1	8625.2	8031.6	7676.9
70°	4270.7	4170.9	5076.4	6926.5	8971.0	10423.6	10509.2	9519.9	8477.2	7283.0	5923.0
72.5°	2092.6	2094.4	2844.8	4696.7	7097.6	9500.3	9543.1	8728.6	7283.0	5368.7	3354.5
75°	618.5	625.6	1053.4	2302.9	4588.0	7215.3	7263.4	6625.3	5047.8	2773.5	1144.3
77.5°	226.4	226.4	349.4	864.5	2288.6	4554.1	4550.5	4067.5	2556.0	939.3	267.4
80°	117.6	123.0	181.8	352.9	991.0	2372.4	2461.5	1991.0	971.4	395.7	78.4
82.5°	48.1	53.5	99.8	181.8	475.9	832.4	910.8	780.7	422.4	276.3	35.6
85°	14.3	16.0	48.1	101.6	187.2	208.5	231.7	262.0	265.6	213.9	16.0
87.5°	1.8	1.8	19.6	33.9	41.0	44.6	51.7	51.7	135.5	149.7	8.9
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°	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6
2.5°	1224.5	1215.6	1201.4	1169.3	1162.1	1139.0	1137.2	1115.8	1122.9	1108.7	1103.3
5°	1215.6	1196.0	1156.8	1131.8	1106.9	1090.8	1080.2	1071.2	1069.5	1062.3	1058.8
7.5°	1231.7	1204.9	1144.3	1105.1	1062.3	1048.1	1024.9	1023.1	1010.6	998.2	998.2
10°	1285.1	1237.0	1171.1	1105.1	1049.9	1003.5	950.0	910.8	896.6	864.5	868.0
12.5°	1327.9	1285.1	1188.9	1121.1	1037.4	932.2	814.6	723.7	680.9	639.9	655.9
15°	1388.5	1326.1	1222.7	1124.7	989.2	807.4	614.9	513.3	474.1	465.2	463.4
17.5°	1454.5	1388.5	1265.5	1115.8	891.2	623.8	452.7	393.9	401.0	411.7	410.0
20°	1527.5	1447.3	1297.6	1085.5	736.1	452.7	370.7	369.0	379.7	395.7	399.3
22.5°	1604.2	1534.7	1336.8	994.6	549.0	363.6	356.5	356.5	363.6	383.2	379.7
25°	1689.7	1597.1	1356.4	853.8	393.9	335.1	338.7	345.8	349.4	365.4	367.2
27.5°	1755.7	1666.6	1361.8	684.5	320.8	310.1	319.1	328.0	333.3	345.8	351.1
30°	1816.3	1753.9	1333.3	509.8	294.1	288.8	292.3	304.8	315.5	326.2	326.2
32.5°	1892.9	1803.8	1267.3	361.8	278.1	269.1	267.4	272.7	285.2	297.7	297.7
35°	1971.4	1887.6	1162.1	290.5	263.8	251.3	244.2	238.8	244.2	253.1	260.2
37.5°	2085.4	2014.1	1030.2	267.4	253.1	235.3	221.0	208.5	199.6	197.8	203.2
40°	2247.6	2156.7	860.9	251.3	240.6	219.2	197.8	176.5	156.9	144.4	146.2
42.5°	2493.6	2367.1	677.3	242.4	231.7	201.4	171.1	140.8	115.9	103.4	103.4
45°	2844.8	2645.1	497.3	233.5	221.0	180.0	140.8	105.2	80.2	73.1	74.9
47.5°	3374.1	2980.2	356.5	219.2	206.8	156.9	110.5	74.9	58.8	55.3	57.0
50°	4065.7	3377.7	278.1	203.2	188.9	131.9	82.0	55.3	46.3	44.6	46.3
52.5°	4791.2	3778.7	244.2	188.9	162.2	105.2	60.6	44.6	39.2	37.4	39.2
55°	5411.5	4037.2	212.1	167.5	130.1	78.4	48.1	39.2	33.9	28.5	28.5
57.5°	6038.9	4167.3	167.5	139.0	96.3	58.8	41.0	33.9	28.5	23.2	21.4
60°	6548.6	4260.0	119.4	103.4	67.7	46.3	35.6	30.3	23.2	17.8	16.0
62.5°	6883.7	3994.4	87.3	78.4	49.9	39.2	30.3	25.0	17.8	12.5	12.5
65°	6718.0	3627.2	67.7	55.3	37.4	30.3	25.0	17.8	12.5	7.1	5.3
67.5°	6028.2	2955.3	55.3	41.0	28.5	23.2	19.6	14.3	7.1	1.8	1.8
70°	4497.1	2165.7	44.6	30.3	23.2	17.8	14.3	8.9	3.6	1.8	0.0
72.5°	2459.8	1185.3	35.6	25.0	17.8	14.3	10.7	7.1	3.6	0.0	0.0
75°	812.8	315.5	26.7	17.8	10.7	8.9	7.1	5.3	1.8	0.0	0.0
77.5°	196.1	82.0	21.4	16.0	8.9	5.3	3.6	1.8	1.8	0.0	0.0
80°	60.6	33.9	16.0	10.7	7.1	5.3	1.8	0.0	0.0	0.0	0.0
82.5°	25.0	16.0	7.1	7.1	5.3	1.8	0.0	0.0	0.0	0.0	0.0
85°	12.5	8.9	5.3	3.6	3.6	1.8	0.0	0.0	0.0	0.0	0.0
87.5°	8.9	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)