

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: P484626

Luminaire Tested: **IFLD-S-SA2B-722-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484626
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-722-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (32) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

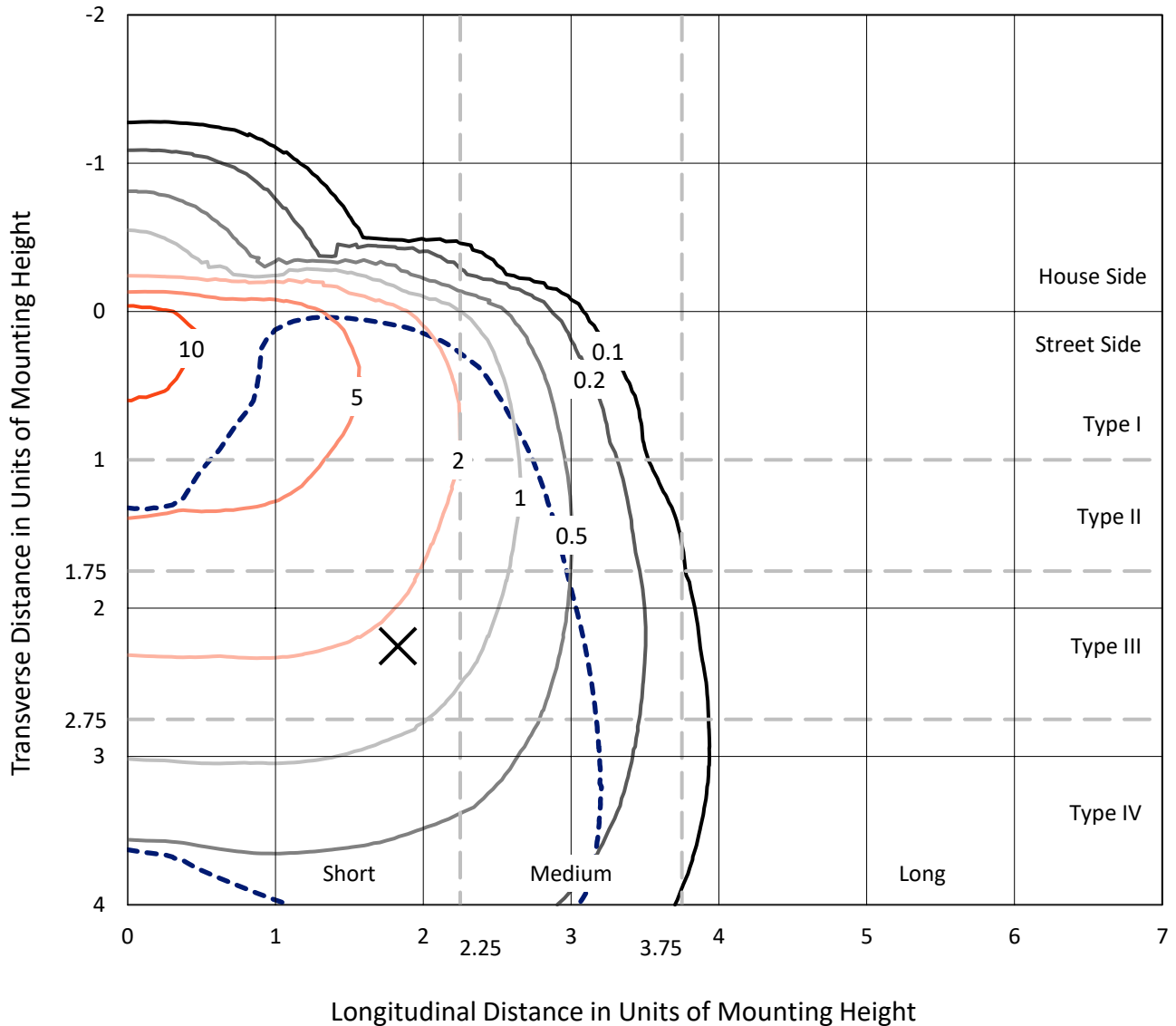
Lumens per Lamp: N/A
Luminaire Lumens: 6947.9 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

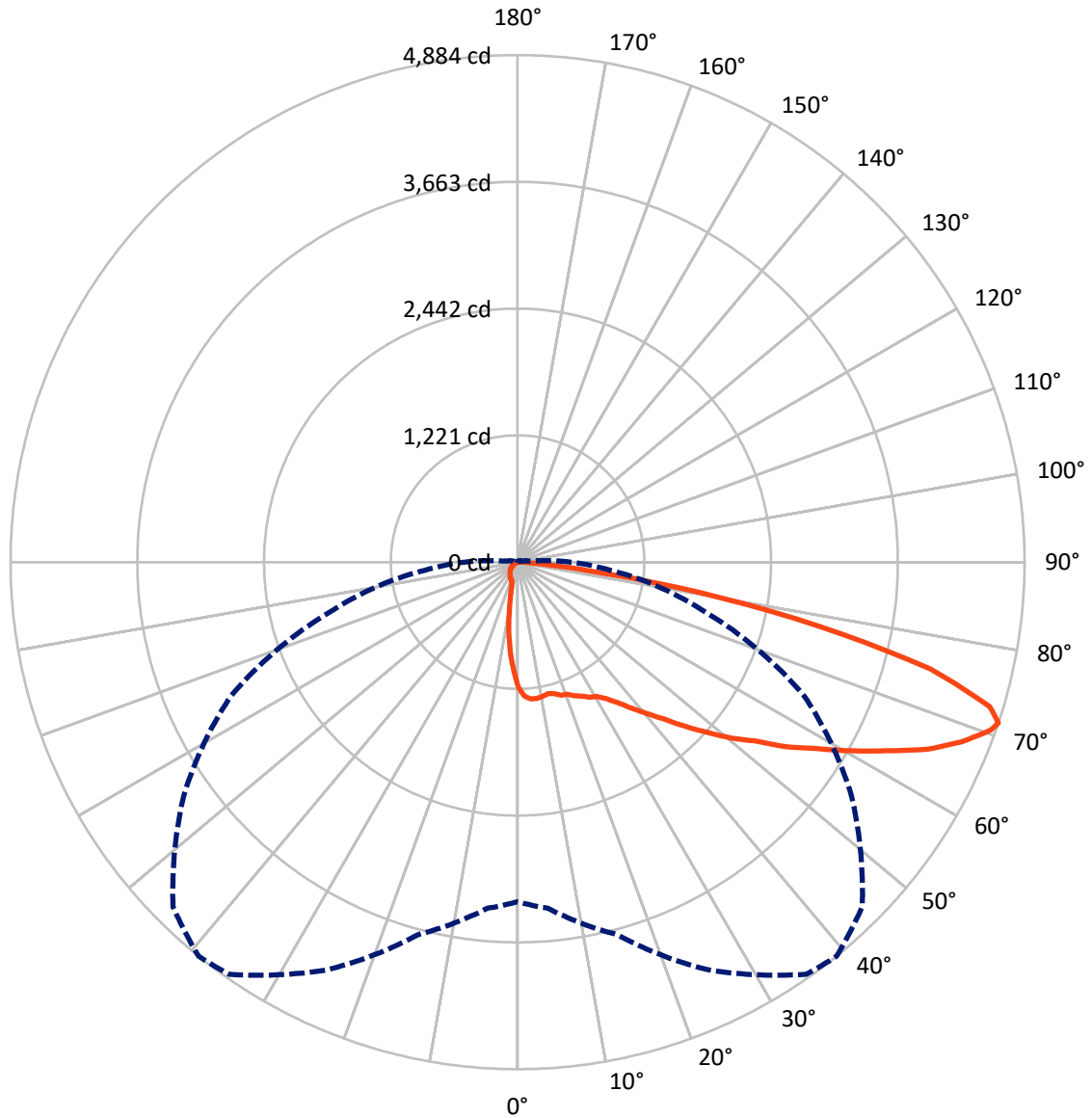
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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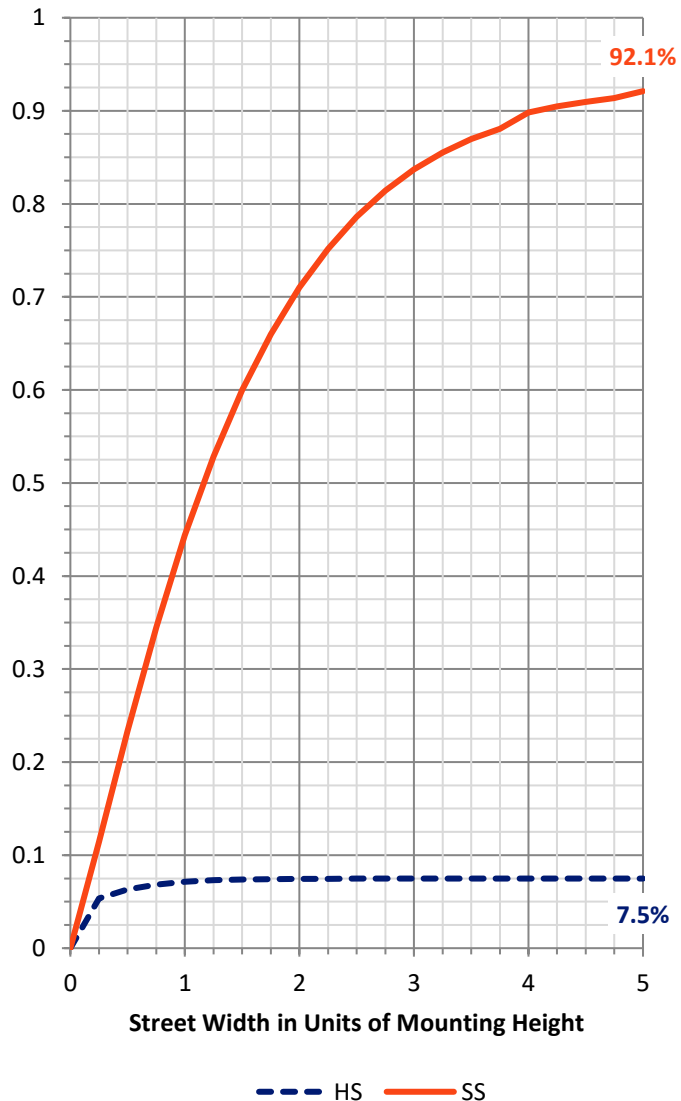
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	523.1	0.0	523.1
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	6424.8	0.0	6424.8
	% Fixture	92.5	0.0	92.5
Total	Lumens	6947.9	0.0	6947.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	1.5
10°-20°	248.9	3.6
20°-30°	399.5	5.8
30°-40°	611.6	8.8
40°-50°	981.6	14.1
50°-60°	1441.9	20.8
60°-70°	1816.0	26.1
70°-80°	1211.9	17.4
80°-90°	135.4	1.9
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°	6947.9	100.0
0°-180°	6947.9	100.0

Coefficient of Utilization



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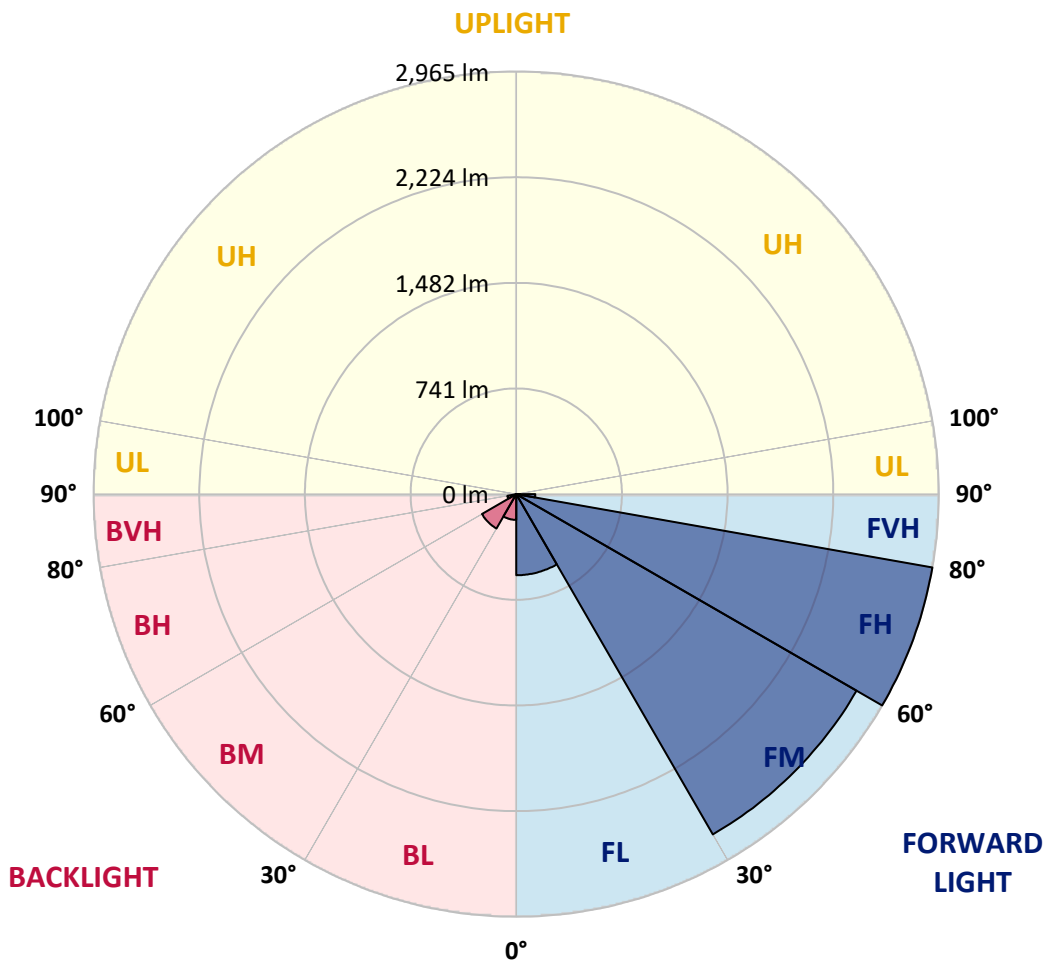
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	568.9	8.2			
FM (30°-60°)	2757.0	39.7			
FH (60°-80°)	2965.0	42.7			G2/5000
FVH (80°-90°)	133.9	1.9			G2/225
BL (0°-30°)	180.6	2.6	B1/500		
BM (30°-60°)	278.0	4.0	B1/1000		
BH (60°-80°)	63.0	0.9	B0/110		G0/110
BVH (80°-90°)	1.5	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1303.2	1316.0	1303.2	1297.7	1292.3	1293.2	1278.6	1281.3	1264.0	1241.2	1223.0
5°	1344.2	1361.5	1347.9	1341.5	1340.6	1323.2	1316.0	1298.6	1277.7	1242.1	1220.3
7.5°	1340.6	1336.9	1343.3	1337.8	1326.0	1326.0	1317.8	1293.2	1272.2	1232.1	1194.7
10°	1313.2	1324.2	1318.7	1312.3	1315.0	1316.0	1300.5	1283.1	1276.8	1236.7	1175.6
12.5°	1310.5	1292.3	1312.3	1313.2	1301.4	1300.5	1298.6	1294.1	1274.0	1237.6	1180.2
15°	1301.4	1294.1	1314.1	1315.0	1317.8	1315.0	1317.8	1314.1	1294.1	1273.1	1200.2
17.5°	1308.7	1300.5	1328.7	1342.4	1336.0	1348.8	1344.2	1327.8	1310.5	1285.9	1219.4
20°	1310.5	1322.3	1353.3	1358.8	1378.8	1357.9	1357.0	1339.6	1328.7	1302.3	1231.2
22.5°	1344.2	1349.7	1387.9	1399.8	1400.7	1398.0	1375.2	1355.1	1350.6	1317.8	1233.9
25°	1395.2	1414.4	1431.7	1439.0	1441.7	1429.0	1405.3	1379.7	1368.8	1347.9	1262.2
27.5°	1485.5	1473.6	1489.1	1500.0	1469.1	1473.6	1443.5	1421.7	1406.2	1387.9	1295.0
30°	1565.7	1554.7	1555.6	1553.8	1527.4	1502.8	1494.6	1456.3	1437.2	1444.5	1346.0
32.5°	1637.7	1614.0	1634.0	1624.9	1575.7	1568.4	1562.0	1513.7	1517.4	1551.1	1422.6
35°	1704.2	1696.0	1712.4	1696.0	1663.2	1661.3	1655.0	1613.0	1633.1	1681.4	1553.8
37.5°	1765.2	1768.0	1788.0	1779.8	1782.6	1784.4	1780.7	1736.1	1793.5	1901.9	1706.9
40°	1821.7	1818.1	1867.3	1892.8	1898.3	1918.3	1918.3	1907.4	1995.8	2117.9	1919.3
42.5°	1881.9	1891.0	1954.8	1997.6	2049.6	2066.9	2090.6	2096.1	2232.7	2372.2	2136.1
45°	1980.3	1964.8	2045.9	2147.1	2192.7	2253.7	2290.2	2321.1	2486.1	2677.5	2353.0
47.5°	2105.2	2074.2	2145.3	2292.0	2397.7	2447.8	2513.4	2554.4	2715.8	2913.5	2558.1
50°	2243.7	2211.8	2246.4	2448.7	2571.8	2662.9	2746.7	2798.7	2993.7	3177.8	2707.6
52.5°	2400.4	2371.3	2376.7	2611.9	2793.2	2859.7	2970.0	3047.5	3241.6	3337.3	2760.4
55°	2567.2	2559.9	2542.6	2771.3	2987.3	3136.8	3203.3	3296.3	3495.8	3423.9	2817.8
57.5°	2734.9	2712.1	2736.7	2982.8	3299.0	3388.3	3480.4	3535.9	3637.1	3499.5	2795.9
60°	2892.5	2894.4	2929.0	3212.4	3564.2	3690.9	3773.8	3740.1	3782.0	3532.3	2745.8
62.5°	3025.6	3022.0	3109.4	3470.3	3915.1	4000.7	4062.7	3912.3	3849.4	3564.2	2658.3
65°	3145.0	3186.0	3323.6	3777.4	4245.0	4343.4	4306.0	4075.5	3915.1	3470.3	2412.3
67.5°	3235.2	3296.3	3535.0	4066.3	4547.5	4616.8	4564.8	4199.4	3837.6	3102.2	1964.8
70°	3288.1	3350.0	3686.3	4306.9	4789.0	4839.1	4717.0	4103.7	3385.6	2246.4	1225.7
71°	3271.7	3347.3	3715.5	4332.4	4846.4	4883.8	4694.2	3926.9	3044.7	1881.0	894.0
72.5°	3123.1	3194.2	3594.3	4314.2	4777.2	4754.4	4516.5	3502.2	2396.8	1199.3	462.0
75°	2294.7	2371.3	3084.8	3731.9	4264.1	4107.3	3655.3	2457.8	1250.3	367.3	134.9
77.5°	1142.8	1155.6	1914.7	2709.4	3127.7	2971.8	2449.6	1370.6	467.5	108.4	67.4
80°	526.7	530.4	718.1	1403.4	1891.0	1779.8	1372.5	676.2	211.4	57.4	52.9
82.5°	359.1	364.5	432.9	581.4	821.1	692.6	555.9	432.9	121.2	34.6	51.9
85°	65.6	60.1	242.4	308.0	317.1	215.1	192.3	374.6	45.6	20.0	45.6
87.5°	0.0	0.9	33.7	125.8	113.0	50.1	65.6	91.1	4.6	6.4	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1207.5	1197.5	1163.8	1126.4	1092.7	1066.3	1032.5	1017.0	992.4	978.8	977.9
5°	1190.2	1162.9	1104.5	1041.6	971.5	913.1	848.4	812.0	770.1	757.3	754.6
7.5°	1161.0	1121.8	1036.2	947.8	840.2	737.3	658.0	573.2	521.3	499.4	491.2
10°	1142.8	1095.4	978.8	846.6	696.3	551.4	440.2	349.9	302.6	279.8	274.3
12.5°	1142.8	1091.8	932.3	750.0	550.4	377.3	272.5	220.5	205.0	199.6	199.6
15°	1140.1	1084.5	887.6	650.7	407.4	253.3	203.2	192.3	190.5	189.6	188.6
17.5°	1153.7	1071.7	842.1	544.1	288.0	199.6	186.8	185.0	183.2	183.2	181.4
20°	1163.8	1064.4	787.4	431.1	215.1	185.0	179.5	176.8	175.9	175.0	176.8
22.5°	1155.6	1053.5	719.9	322.6	187.7	175.9	172.2	169.5	167.7	167.7	168.6
25°	1171.1	1043.5	652.5	243.3	175.9	167.7	164.0	162.2	161.3	160.4	158.6
27.5°	1192.0	1048.0	572.3	195.9	165.9	159.5	155.8	154.0	153.1	151.3	153.1
30°	1217.5	1047.1	483.9	171.3	156.7	150.4	146.7	145.8	144.0	143.1	144.0
32.5°	1261.3	1070.8	392.8	158.6	146.7	141.3	137.6	136.7	135.8	134.9	134.0
35°	1355.1	1100.0	307.1	148.5	137.6	131.2	128.5	126.7	125.8	124.9	123.9
37.5°	1470.9	1164.7	234.2	139.4	128.5	122.1	119.4	118.5	114.8	113.9	113.0
40°	1615.8	1233.9	180.4	129.4	120.3	113.9	111.2	108.4	103.9	102.1	100.2
42.5°	1796.2	1301.4	148.5	120.3	111.2	106.6	102.1	97.5	93.9	90.2	88.4
45°	1976.7	1379.7	130.3	112.1	103.9	98.4	94.8	88.4	82.0	76.6	75.6
47.5°	2127.0	1408.0	119.4	103.0	96.6	92.0	86.6	78.4	69.3	63.8	62.9
50°	2239.1	1391.6	108.4	93.9	88.4	83.8	76.6	66.5	57.4	51.9	50.1
52.5°	2261.0	1319.6	98.4	86.6	80.2	74.7	66.5	55.6	45.6	40.1	39.2
55°	2245.5	1200.2	90.2	80.2	72.9	64.7	55.6	44.7	35.5	30.1	29.2
57.5°	2213.6	1059.0	81.1	72.0	63.8	55.6	45.6	36.5	26.4	21.0	21.0
60°	2105.2	866.7	72.0	62.9	54.7	47.4	37.4	26.4	18.2	13.7	12.8
62.5°	1953.9	666.2	62.9	53.8	47.4	39.2	29.2	19.1	10.9	7.3	7.3
65°	1677.8	466.6	52.9	44.7	39.2	31.9	21.9	11.8	6.4	2.7	2.7
67.5°	1274.9	288.9	43.7	37.4	33.7	25.5	15.5	7.3	2.7	0.9	0.0
70°	731.8	150.4	34.6	30.1	26.4	19.1	10.9	3.6	1.8	0.0	0.0
71°	511.3	111.2	31.0	26.4	23.7	17.3	9.1	2.7	0.9	0.0	0.0
72.5°	256.1	73.8	26.4	21.9	19.1	13.7	7.3	2.7	0.9	0.0	0.0
75°	91.1	47.4	18.2	14.6	13.7	10.0	4.6	1.8	0.9	0.0	0.0
77.5°	62.9	38.3	12.8	9.1	9.1	6.4	2.7	0.9	0.9	0.0	0.0
80°	57.4	21.0	8.2	5.5	4.6	3.6	1.8	0.9	0.0	0.0	0.0
82.5°	57.4	15.5	4.6	3.6	2.7	1.8	0.9	0.0	0.0	0.0	0.0
85°	40.1	8.2	2.7	2.7	1.8	0.9	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	2.7	1.8	0.9	0.9	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)