

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: P484625

Luminaire Tested: **IFLD-S-SA2A-722-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484625  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-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**

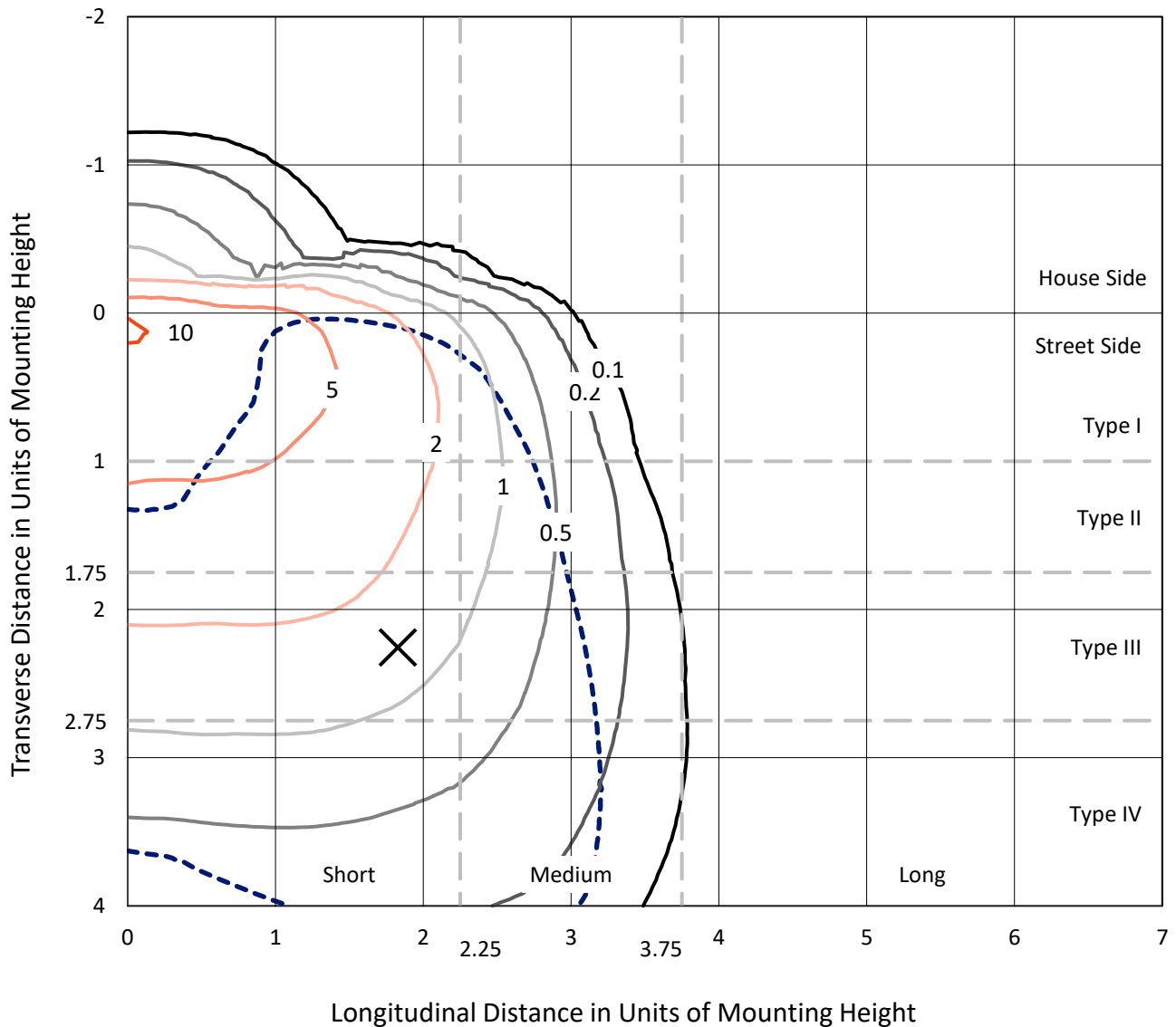
Lumens per Lamp: N/A  
Luminaire Lumens: 5618 lumens  
Efficiency: N/A  
Efficacy: 88.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8  
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

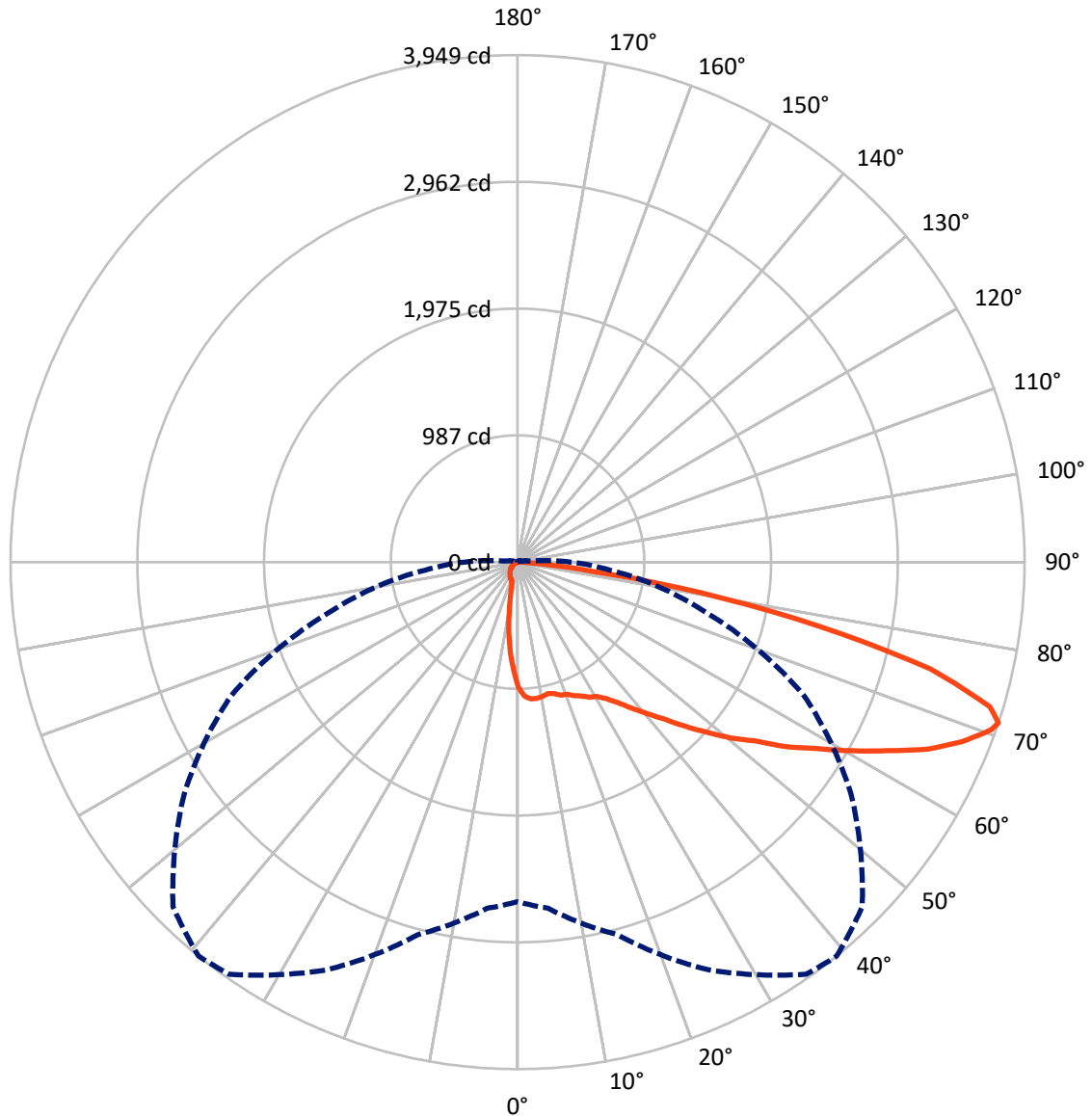
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.6 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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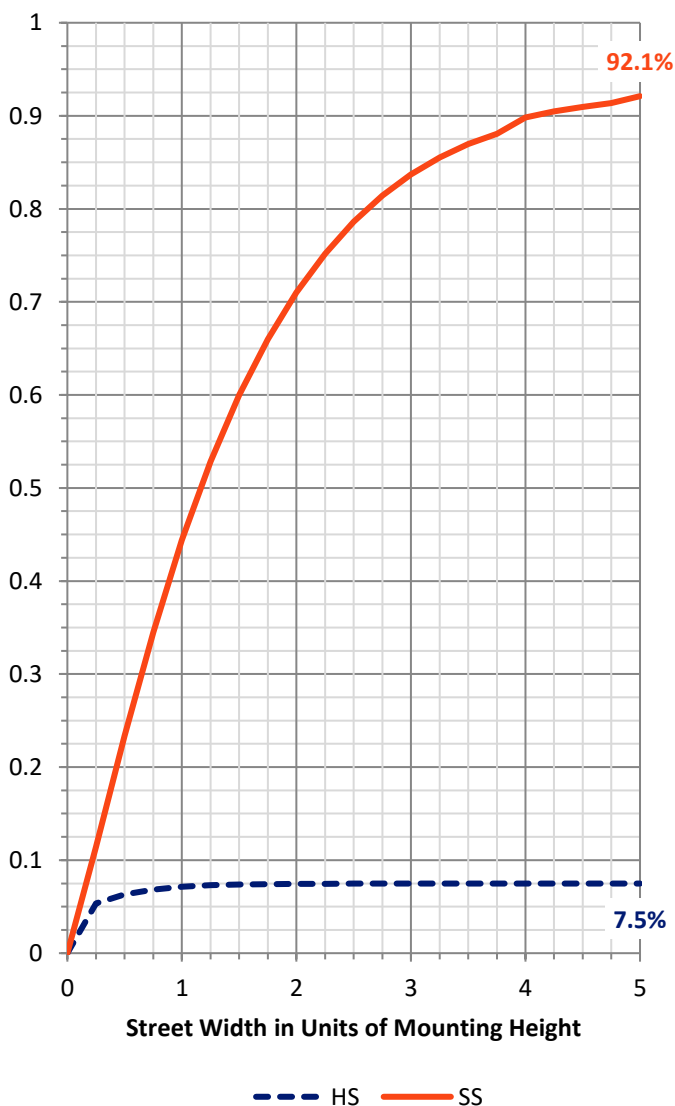
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	422.9	0.0	422.9
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	5195.0	0.0	5195.0
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	5618.0	0.0	5618.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.8	1.5
10°-20°	201.2	3.6
20°-30°	323.0	5.7
30°-40°	494.5	8.8
40°-50°	793.7	14.1
50°-60°	1165.9	20.8
60°-70°	1468.4	26.1
70°-80°	980.0	17.4
80°-90°	109.5	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°	5618.0	100.0
0°-180°	5618.0	100.0

**Coefficient of Utilization**



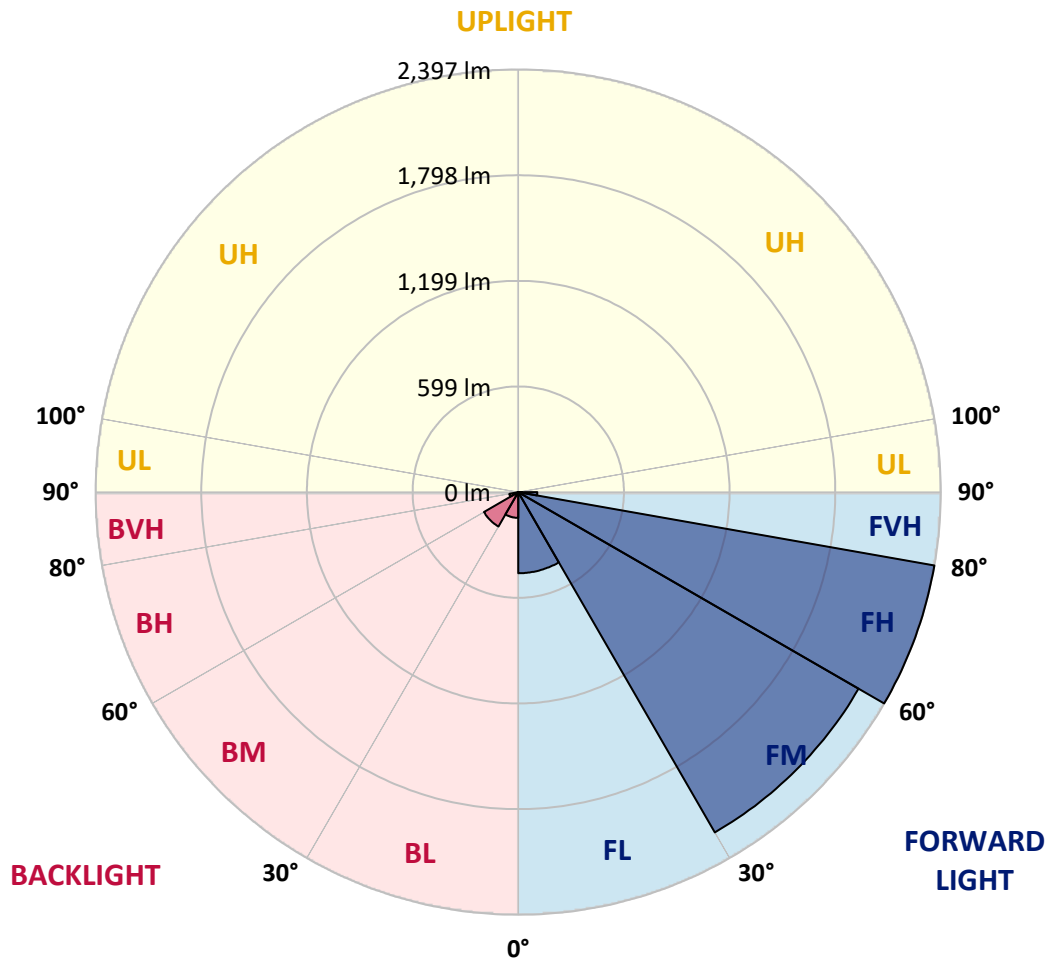
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	460.0	8.2			
FM (30°-60°)	2229.3	39.7			
FH (60°-80°)	2397.4	42.7			G2/5000
FVH (80°-90°)	108.3	1.9			G2/225
BL (0°-30°)	146.0	2.6	B1/500		
BM (30°-60°)	224.8	4.0	B1/1000		
BH (60°-80°)	50.9	0.9	B0/110		G0/110
BVH (80°-90°)	1.2	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°	977.8	977.8	977.8	977.8	977.8	977.8	977.8	977.8	977.8	977.8	977.8
2.5°	1053.7	1064.1	1053.7	1049.3	1044.9	1045.6	1033.8	1036.1	1022.1	1003.6	988.9
5°	1086.9	1100.9	1089.9	1084.7	1084.0	1070.0	1064.1	1050.1	1033.1	1004.4	986.7
7.5°	1084.0	1081.0	1086.2	1081.7	1072.2	1072.2	1065.5	1045.6	1028.7	996.3	966.1
10°	1061.8	1070.7	1066.3	1061.1	1063.3	1064.1	1051.5	1037.5	1032.4	1000.0	950.6
12.5°	1059.6	1044.9	1061.1	1061.8	1052.3	1051.5	1050.1	1046.4	1030.2	1000.7	954.3
15°	1052.3	1046.4	1062.6	1063.3	1065.5	1063.3	1065.5	1062.6	1046.4	1029.4	970.5
17.5°	1058.2	1051.5	1074.4	1085.4	1080.3	1090.6	1086.9	1073.6	1059.6	1039.7	985.9
20°	1059.6	1069.2	1094.3	1098.7	1114.9	1098.0	1097.2	1083.2	1074.4	1053.0	995.5
22.5°	1086.9	1091.3	1122.3	1131.9	1132.6	1130.4	1112.0	1095.7	1092.1	1065.5	997.7
25°	1128.2	1143.6	1157.6	1163.5	1165.7	1155.4	1136.3	1115.6	1106.8	1089.9	1020.6
27.5°	1201.1	1191.5	1204.1	1212.9	1187.9	1191.5	1167.2	1149.5	1137.0	1122.3	1047.1
30°	1266.0	1257.1	1257.9	1256.4	1235.0	1215.1	1208.5	1177.5	1162.1	1168.0	1088.4
32.5°	1324.2	1305.0	1321.2	1313.9	1274.1	1268.2	1263.0	1224.0	1226.9	1254.2	1150.3
35°	1378.0	1371.3	1384.6	1371.3	1344.8	1343.3	1338.2	1304.3	1320.5	1359.5	1256.4
37.5°	1427.3	1429.6	1445.8	1439.1	1441.3	1442.8	1439.9	1403.8	1450.2	1537.9	1380.2
40°	1473.0	1470.1	1509.9	1530.5	1534.9	1551.1	1551.1	1542.3	1613.8	1712.5	1551.9
42.5°	1521.7	1529.0	1580.6	1615.2	1657.3	1671.3	1690.4	1694.8	1805.4	1918.1	1727.3
45°	1601.2	1588.7	1654.3	1736.1	1772.9	1822.3	1851.8	1876.8	2010.2	2165.0	1902.6
47.5°	1702.2	1677.1	1734.6	1853.3	1938.7	1979.3	2032.3	2065.5	2195.9	2355.8	2068.4
50°	1814.2	1788.4	1816.4	1980.0	2079.5	2153.2	2221.0	2263.0	2420.7	2569.5	2189.3
52.5°	1941.0	1917.4	1921.8	2111.9	2258.5	2312.3	2401.5	2464.1	2621.1	2698.5	2232.0
55°	2075.8	2069.9	2055.9	2240.9	2415.5	2536.4	2590.1	2665.3	2826.7	2768.5	2278.4
57.5°	2211.4	2193.0	2212.9	2411.8	2667.5	2739.7	2814.2	2859.1	2940.9	2829.6	2260.8
60°	2338.9	2340.3	2368.3	2597.5	2882.0	2984.4	3051.4	3024.2	3058.1	2856.2	2220.2
62.5°	2446.5	2443.5	2514.2	2806.1	3165.7	3234.9	3285.0	3163.4	3112.6	2882.0	2149.5
65°	2543.0	2576.1	2687.4	3054.4	3432.4	3512.0	3481.8	3295.3	3165.7	2806.1	1950.5
67.5°	2615.9	2665.3	2858.4	3288.0	3677.0	3733.1	3691.0	3395.6	3103.0	2508.4	1588.7
70°	2658.7	2708.8	2980.7	3482.5	3872.3	3912.8	3814.1	3318.2	2737.5	1816.4	991.1
71°	2645.4	2706.6	3004.3	3503.1	3918.7	3949.0	3795.7	3175.2	2461.9	1520.9	722.9
72.5°	2525.3	2582.8	2906.3	3488.4	3862.7	3844.3	3652.0	2831.8	1938.0	969.7	373.6
75°	1855.5	1917.4	2494.3	3017.5	3447.9	3321.1	2955.6	1987.4	1011.0	297.0	109.1
77.5°	924.1	934.4	1548.2	2190.8	2529.0	2403.0	1980.7	1108.3	378.0	87.7	54.5
80°	425.9	428.9	580.7	1134.8	1529.0	1439.1	1109.7	546.8	171.0	46.4	42.7
82.5°	290.3	294.8	350.0	470.1	663.9	560.0	449.5	350.0	98.0	28.0	42.0
85°	53.1	48.6	196.0	249.1	256.4	173.9	155.5	302.9	36.8	16.2	36.8
87.5°	0.0	0.7	27.3	101.7	91.4	40.5	53.1	73.7	3.7	5.2	6.6
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°	977.8	977.8	977.8	977.8	977.8	977.8	977.8	977.8	977.8	977.8	977.8
2.5°	976.4	968.3	941.0	910.8	883.5	862.2	834.9	822.4	802.5	791.4	790.7
5°	962.4	940.3	893.1	842.3	785.5	738.4	686.0	656.6	622.7	612.3	610.1
7.5°	938.8	907.1	837.8	766.4	679.4	596.1	532.0	463.5	421.5	403.8	397.2
10°	924.1	885.7	791.4	684.6	563.0	445.8	355.9	283.0	244.6	226.2	221.8
12.5°	924.1	882.8	753.8	606.5	445.1	305.1	220.3	178.3	165.8	161.4	161.4
15°	921.8	876.9	717.7	526.1	329.4	204.9	164.3	155.5	154.0	153.3	152.5
17.5°	932.9	866.6	680.9	439.9	232.9	161.4	151.1	149.6	148.1	148.1	146.6
20°	941.0	860.7	636.7	348.5	173.9	149.6	145.2	143.0	142.2	141.5	143.0
22.5°	934.4	851.8	582.1	260.9	151.8	142.2	139.3	137.1	135.6	135.6	136.3
25°	946.9	843.7	527.6	196.7	142.2	135.6	132.6	131.2	130.4	129.7	128.2
27.5°	963.8	847.4	462.8	158.4	134.1	129.0	126.0	124.5	123.8	122.3	123.8
30°	984.5	846.7	391.3	138.5	126.7	121.6	118.6	117.9	116.4	115.7	116.4
32.5°	1019.8	865.8	317.6	128.2	118.6	114.2	111.3	110.5	109.8	109.1	108.3
35°	1095.7	889.4	248.3	120.1	111.3	106.1	103.9	102.4	101.7	101.0	100.2
37.5°	1189.3	941.7	189.4	112.7	103.9	98.7	96.5	95.8	92.8	92.1	91.4
40°	1306.5	997.7	145.9	104.6	97.3	92.1	89.9	87.7	84.0	82.5	81.1
42.5°	1452.4	1052.3	120.1	97.3	89.9	86.2	82.5	78.8	75.9	73.0	71.5
45°	1598.3	1115.6	105.4	90.6	84.0	79.6	76.6	71.5	66.3	61.9	61.2
47.5°	1719.9	1138.5	96.5	83.3	78.1	74.4	70.0	63.4	56.0	51.6	50.8
50°	1810.5	1125.2	87.7	75.9	71.5	67.8	61.9	53.8	46.4	42.0	40.5
52.5°	1828.2	1067.0	79.6	70.0	64.8	60.4	53.8	44.9	36.8	32.4	31.7
55°	1815.7	970.5	73.0	64.8	59.0	52.3	44.9	36.1	28.7	24.3	23.6
57.5°	1789.9	856.3	65.6	58.2	51.6	44.9	36.8	29.5	21.4	16.9	16.9
60°	1702.2	700.8	58.2	50.8	44.2	38.3	30.2	21.4	14.7	11.1	10.3
62.5°	1579.9	538.7	50.8	43.5	38.3	31.7	23.6	15.5	8.8	5.9	5.9
65°	1356.6	377.3	42.7	36.1	31.7	25.8	17.7	9.6	5.2	2.2	2.2
67.5°	1030.9	233.6	35.4	30.2	27.3	20.6	12.5	5.9	2.2	0.7	0.0
70°	591.7	121.6	28.0	24.3	21.4	15.5	8.8	2.9	1.5	0.0	0.0
71°	413.4	89.9	25.1	21.4	19.2	14.0	7.4	2.2	0.7	0.0	0.0
72.5°	207.1	59.7	21.4	17.7	15.5	11.1	5.9	2.2	0.7	0.0	0.0
75°	73.7	38.3	14.7	11.8	11.1	8.1	3.7	1.5	0.7	0.0	0.0
77.5°	50.8	30.9	10.3	7.4	7.4	5.2	2.2	0.7	0.7	0.0	0.0
80°	46.4	16.9	6.6	4.4	3.7	2.9	1.5	0.7	0.0	0.0	0.0
82.5°	46.4	12.5	3.7	2.9	2.2	1.5	0.7	0.0	0.0	0.0	0.0
85°	32.4	6.6	2.2	2.2	1.5	0.7	0.0	0.0	0.0	0.0	0.0
87.5°	5.2	2.2	1.5	0.7	0.7	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)