

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: P484664

Luminaire Tested: **IFLD-S-SA2A-727-U-SL4-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P484664
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-727-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

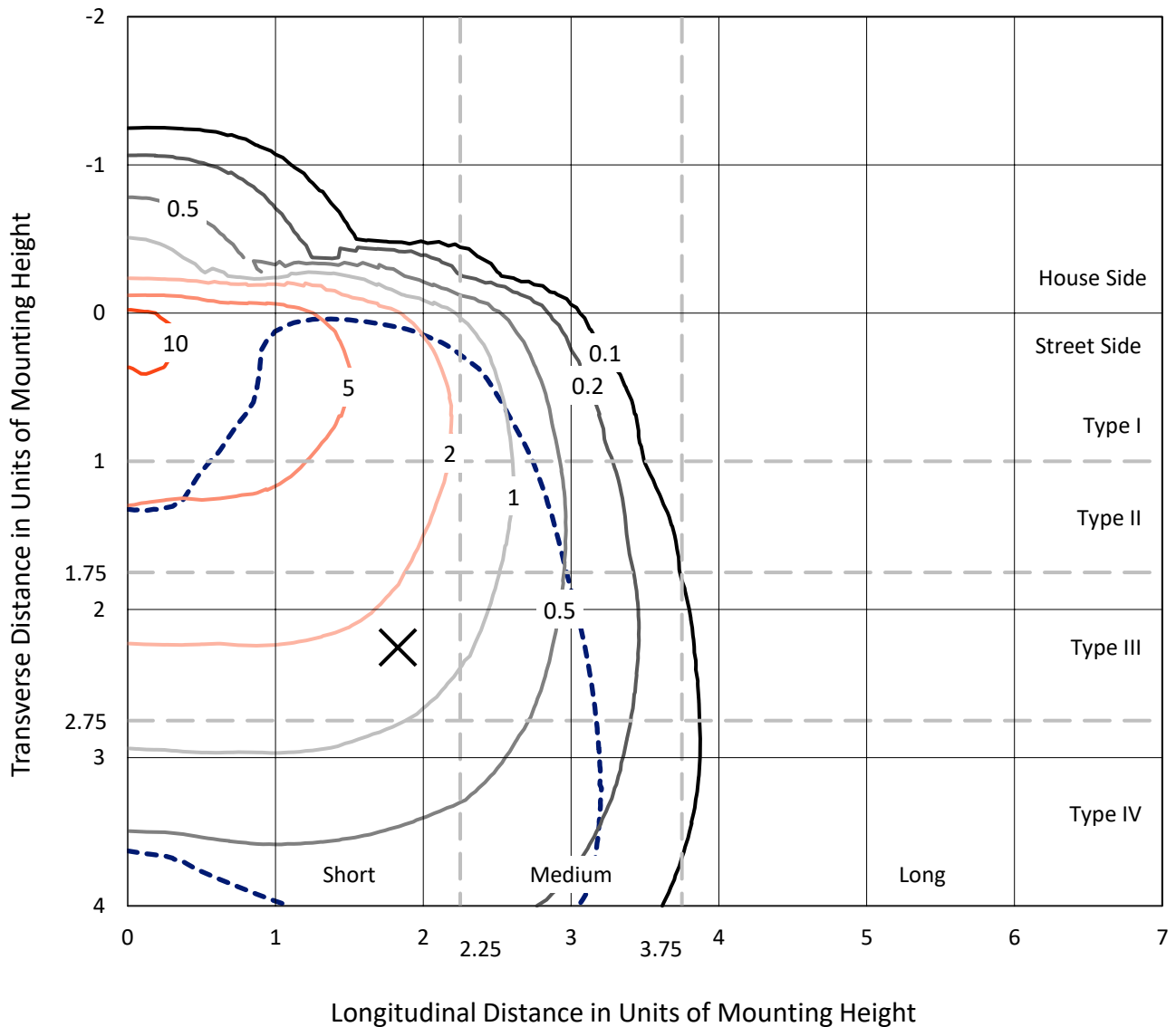
Lumens per Lamp: N/A
Luminaire Lumens: 6378.4 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

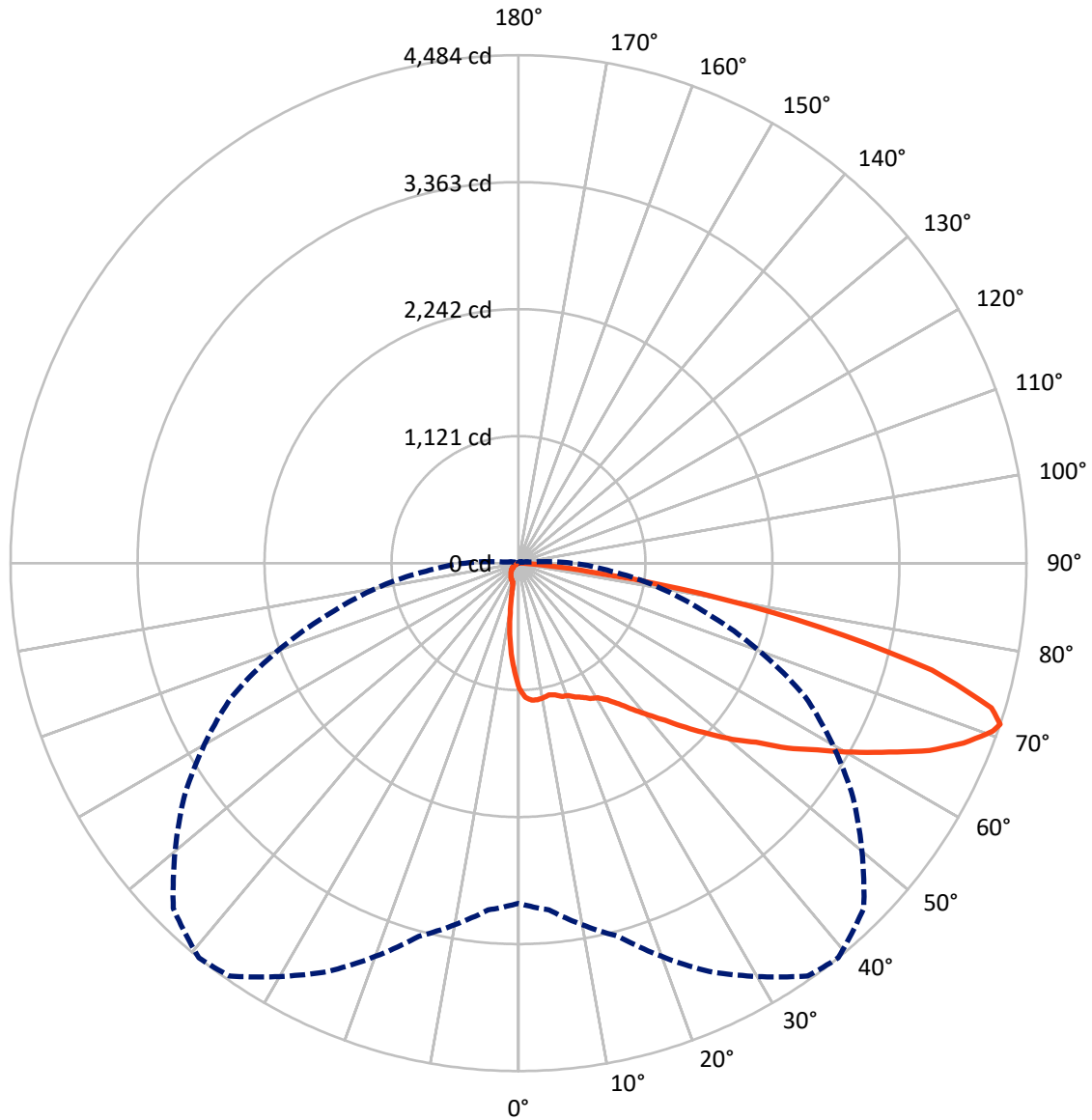
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12 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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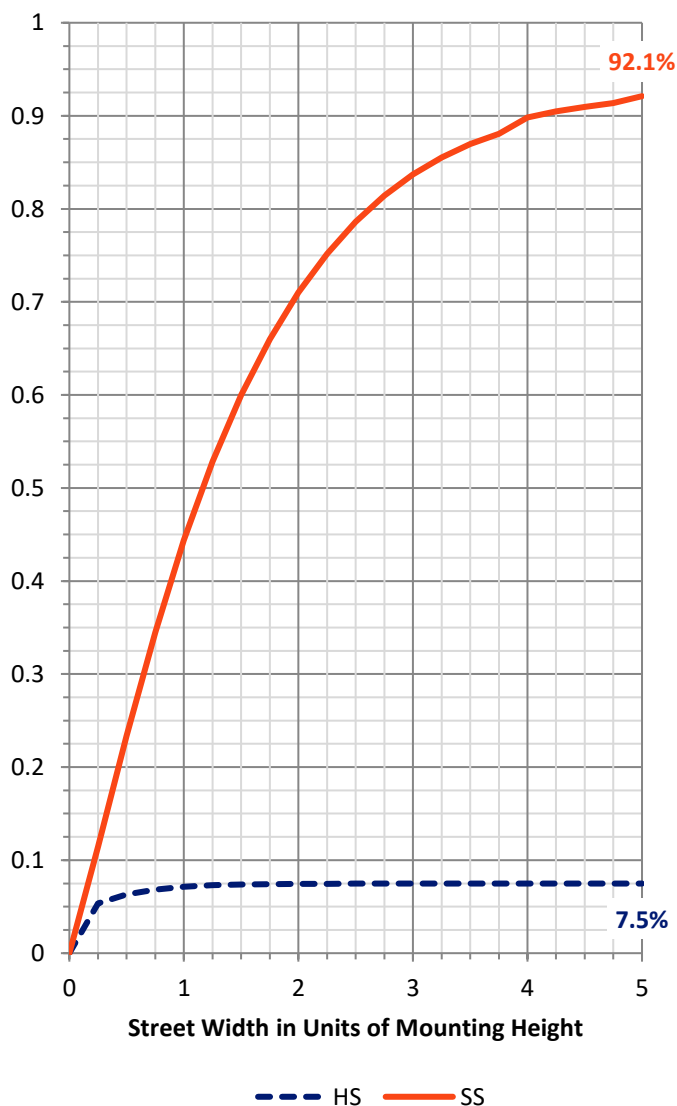
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	480.2	0.0	480.2
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	5898.2	0.0	5898.2
	% Fixture	92.5	0.0	92.5
Total	Lumens	6378.4	0.0	6378.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.8	1.5
10°-20°	228.5	3.6
20°-30°	366.8	5.7
30°-40°	561.4	8.8
40°-50°	901.2	14.1
50°-60°	1323.7	20.8
60°-70°	1667.1	26.1
70°-80°	1112.6	17.4
80°-90°	124.3	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°	6378.4	100.0
0°-180°	6378.4	100.0

Coefficient of Utilization



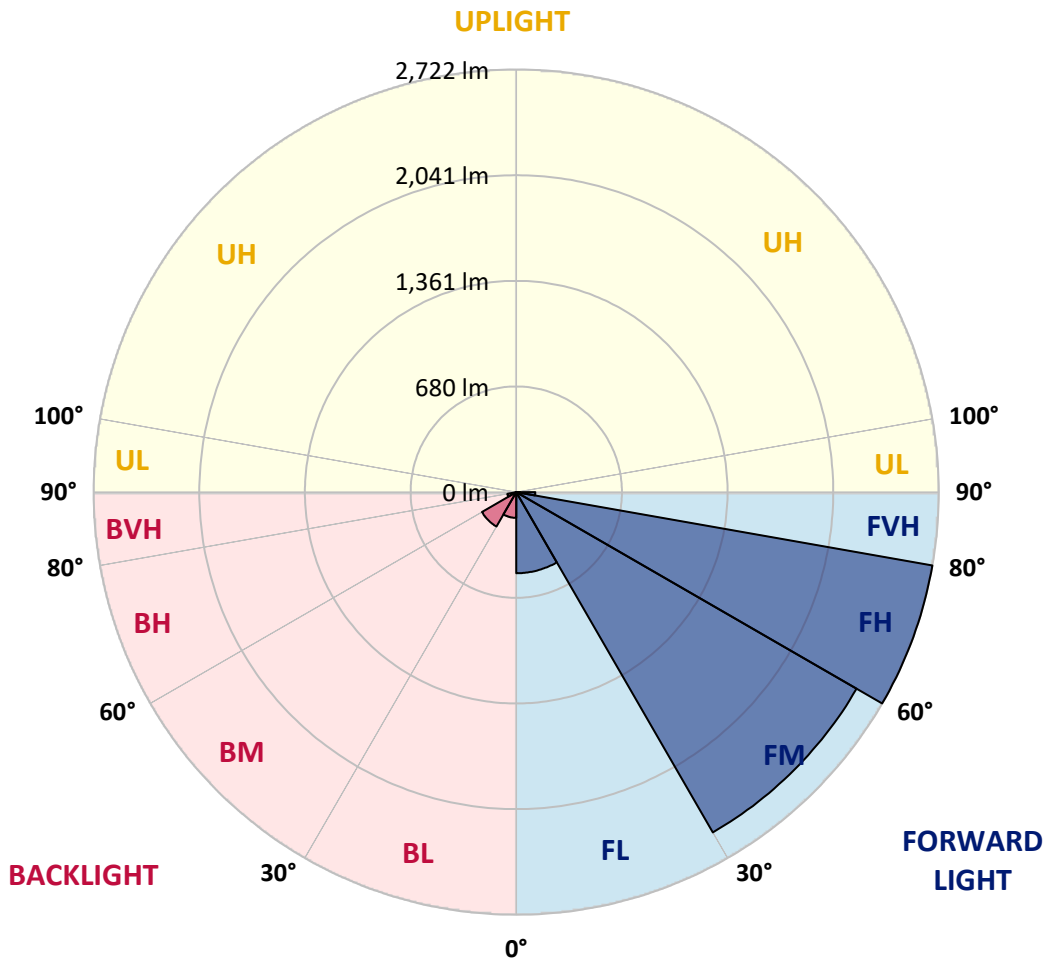
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	522.3	8.2			
FM (30°-60°)	2531.0	39.7			
FH (60°-80°)	2721.9	42.7			G2/5000
FVH (80°-90°)	123.0	1.9			G2/225
BL (0°-30°)	165.8	2.6	B1/500		
BM (30°-60°)	255.2	4.0	B1/1000		
BH (60°-80°)	57.8	0.9	B0/110		G0/110
BVH (80°-90°)	1.4	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°	1110.2	1110.2	1110.2	1110.2	1110.2	1110.2	1110.2	1110.2	1110.2	1110.2	1110.2
2.5°	1196.4	1208.1	1196.4	1191.3	1186.3	1187.2	1173.8	1176.3	1160.4	1139.5	1122.7
5°	1234.0	1249.9	1237.4	1231.5	1230.7	1214.8	1208.1	1192.2	1172.9	1140.3	1120.2
7.5°	1230.7	1227.3	1233.2	1228.2	1217.3	1217.3	1209.8	1187.2	1167.9	1131.1	1096.8
10°	1205.6	1215.6	1210.6	1204.7	1207.2	1208.1	1193.9	1178.0	1172.1	1135.3	1079.2
12.5°	1203.1	1186.3	1204.7	1205.6	1194.7	1193.9	1192.2	1188.0	1169.6	1136.1	1083.4
15°	1194.7	1188.0	1206.4	1207.2	1209.8	1207.2	1209.8	1206.4	1188.0	1168.8	1101.8
17.5°	1201.4	1193.9	1219.8	1232.3	1226.5	1238.2	1234.0	1219.0	1203.1	1180.5	1119.4
20°	1203.1	1213.9	1242.4	1247.4	1265.8	1246.6	1245.7	1229.8	1219.8	1195.5	1130.3
22.5°	1234.0	1239.0	1274.2	1285.1	1285.9	1283.4	1262.5	1244.1	1239.9	1209.8	1132.8
25°	1280.9	1298.4	1314.3	1321.0	1323.5	1311.8	1290.1	1266.6	1256.6	1237.4	1158.7
27.5°	1363.7	1352.8	1367.0	1377.1	1348.6	1352.8	1325.2	1305.1	1290.9	1274.2	1188.8
30°	1437.3	1427.3	1428.1	1426.4	1402.2	1379.6	1372.1	1336.9	1319.4	1326.0	1235.7
32.5°	1503.4	1481.7	1500.1	1491.7	1446.5	1439.8	1434.0	1389.6	1393.0	1423.9	1306.0
35°	1564.5	1557.0	1572.0	1557.0	1526.8	1525.2	1519.3	1480.8	1499.2	1543.6	1426.4
37.5°	1620.5	1623.0	1641.5	1633.9	1636.4	1638.1	1634.8	1593.8	1646.5	1746.0	1567.0
40°	1672.4	1669.1	1714.2	1737.7	1742.7	1761.1	1761.1	1751.0	1832.2	1944.3	1761.9
42.5°	1727.6	1736.0	1794.6	1833.9	1881.6	1897.5	1919.2	1924.2	2049.7	2177.7	1961.0
45°	1818.0	1803.8	1878.2	1971.1	2012.9	2069.0	2102.4	2130.9	2282.3	2458.0	2160.2
47.5°	1932.6	1904.2	1969.4	2104.1	2201.2	2247.2	2307.4	2345.1	2493.1	2674.7	2348.4
50°	2059.8	2030.5	2062.3	2248.0	2360.9	2444.6	2521.6	2569.3	2748.3	2917.3	2485.6
52.5°	2203.7	2176.9	2181.9	2397.8	2564.2	2625.3	2726.5	2797.7	2975.9	3063.7	2534.1
55°	2356.8	2350.1	2334.2	2544.2	2742.4	2879.7	2940.7	3026.1	3209.3	3143.2	2586.8
57.5°	2510.7	2489.8	2512.4	2738.3	3028.6	3110.6	3195.1	3246.1	3339.0	3212.6	2566.8
60°	2655.4	2657.1	2688.9	2949.1	3272.0	3388.3	3464.4	3433.5	3472.0	3242.7	2520.7
62.5°	2777.6	2774.2	2854.6	3185.9	3594.1	3672.8	3729.7	3591.6	3533.9	3272.0	2440.4
65°	2887.2	2924.8	3051.2	3467.8	3897.0	3987.3	3953.0	3741.4	3594.1	3185.9	2214.5
67.5°	2970.0	3026.1	3245.3	3733.0	4174.7	4238.3	4190.6	3855.2	3523.0	2847.9	1803.8
70°	3018.5	3075.4	3384.1	3953.9	4396.4	4442.5	4330.4	3767.3	3108.0	2062.3	1125.3
71°	3003.5	3072.9	3410.9	3977.3	4449.2	4483.5	4309.4	3605.0	2795.2	1726.8	820.7
72.5°	2867.1	2932.4	3299.6	3960.6	4385.6	4364.7	4146.3	3215.1	2200.3	1101.0	424.2
75°	2106.6	2176.9	2832.0	3426.0	3914.6	3770.7	3355.7	2256.4	1147.8	337.2	123.8
77.5°	1049.1	1060.8	1757.7	2487.3	2871.3	2728.2	2248.8	1258.3	429.2	99.6	61.9
80°	483.6	486.9	659.3	1288.4	1736.0	1633.9	1260.0	620.8	194.1	52.7	48.5
82.5°	329.6	334.6	397.4	533.8	753.8	635.8	510.3	397.4	111.3	31.8	47.7
85°	60.2	55.2	222.5	282.8	291.1	197.4	176.5	343.9	41.8	18.4	41.8
87.5°	0.0	0.8	31.0	115.5	103.7	46.0	60.2	83.7	4.2	5.9	7.5
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°	1110.2	1110.2	1110.2	1110.2	1110.2	1110.2	1110.2	1110.2	1110.2	1110.2	1110.2
2.5°	1108.5	1099.3	1068.4	1034.1	1003.1	978.8	947.9	933.7	911.1	898.5	897.7
5°	1092.6	1067.5	1014.0	956.3	891.8	838.3	778.9	745.4	706.9	695.2	692.7
7.5°	1065.9	1029.9	951.2	870.1	771.4	676.8	604.0	526.2	478.5	458.5	450.9
10°	1049.1	1005.6	898.5	777.2	639.2	506.2	404.1	321.3	277.8	256.8	251.8
12.5°	1049.1	1002.3	855.9	688.5	505.3	346.4	250.1	202.5	188.2	183.2	183.2
15°	1046.6	995.6	814.9	597.3	374.0	232.6	186.6	176.5	174.9	174.0	173.2
17.5°	1059.2	983.9	773.0	499.5	264.4	183.2	171.5	169.8	168.2	168.2	166.5
20°	1068.4	977.2	722.8	395.7	197.4	169.8	164.8	162.3	161.5	160.6	162.3
22.5°	1060.8	967.1	660.9	296.2	172.3	161.5	158.1	155.6	153.9	153.9	154.8
25°	1075.1	957.9	599.0	223.4	161.5	153.9	150.6	148.9	148.1	147.2	145.6
27.5°	1094.3	962.1	525.4	179.9	152.3	146.4	143.1	141.4	140.6	138.9	140.6
30°	1117.7	961.3	444.2	157.3	143.9	138.0	134.7	133.9	132.2	131.3	132.2
32.5°	1157.9	983.0	360.6	145.6	134.7	129.7	126.3	125.5	124.7	123.8	123.0
35°	1244.1	1009.8	281.9	136.4	126.3	120.5	118.0	116.3	115.5	114.6	113.8
37.5°	1350.3	1069.2	215.0	128.0	118.0	112.1	109.6	108.8	105.4	104.6	103.7
40°	1483.3	1132.8	165.7	118.8	110.4	104.6	102.1	99.6	95.4	93.7	92.0
42.5°	1649.0	1194.7	136.4	110.4	102.1	97.9	93.7	89.5	86.2	82.8	81.2
45°	1814.6	1266.6	119.6	102.9	95.4	90.4	87.0	81.2	75.3	70.3	69.4
47.5°	1952.7	1292.6	109.6	94.5	88.7	84.5	79.5	71.9	63.6	58.6	57.7
50°	2055.6	1277.5	99.6	86.2	81.2	77.0	70.3	61.1	52.7	47.7	46.0
52.5°	2075.7	1211.4	90.4	79.5	73.6	68.6	61.1	51.0	41.8	36.8	36.0
55°	2061.4	1101.8	82.8	73.6	66.9	59.4	51.0	41.0	32.6	27.6	26.8
57.5°	2032.2	972.2	74.5	66.1	58.6	51.0	41.8	33.5	24.3	19.2	19.2
60°	1932.6	795.6	66.1	57.7	50.2	43.5	34.3	24.3	16.7	12.5	11.7
62.5°	1793.7	611.6	57.7	49.4	43.5	36.0	26.8	17.6	10.0	6.7	6.7
65°	1540.2	428.4	48.5	41.0	36.0	29.3	20.1	10.9	5.9	2.5	2.5
67.5°	1170.4	265.2	40.2	34.3	31.0	23.4	14.2	6.7	2.5	0.8	0.0
70°	671.8	138.0	31.8	27.6	24.3	17.6	10.0	3.3	1.7	0.0	0.0
71°	469.3	102.1	28.4	24.3	21.8	15.9	8.4	2.5	0.8	0.0	0.0
72.5°	235.1	67.8	24.3	20.1	17.6	12.5	6.7	2.5	0.8	0.0	0.0
75°	83.7	43.5	16.7	13.4	12.5	9.2	4.2	1.7	0.8	0.0	0.0
77.5°	57.7	35.1	11.7	8.4	8.4	5.9	2.5	0.8	0.8	0.0	0.0
80°	52.7	19.2	7.5	5.0	4.2	3.3	1.7	0.8	0.0	0.0	0.0
82.5°	52.7	14.2	4.2	3.3	2.5	1.7	0.8	0.0	0.0	0.0	0.0
85°	36.8	7.5	2.5	2.5	1.7	0.8	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	2.5	1.7	0.8	0.8	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)