

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: P484937

Luminaire Tested: **IFLD-S-SA2A-830-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484937
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-830-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

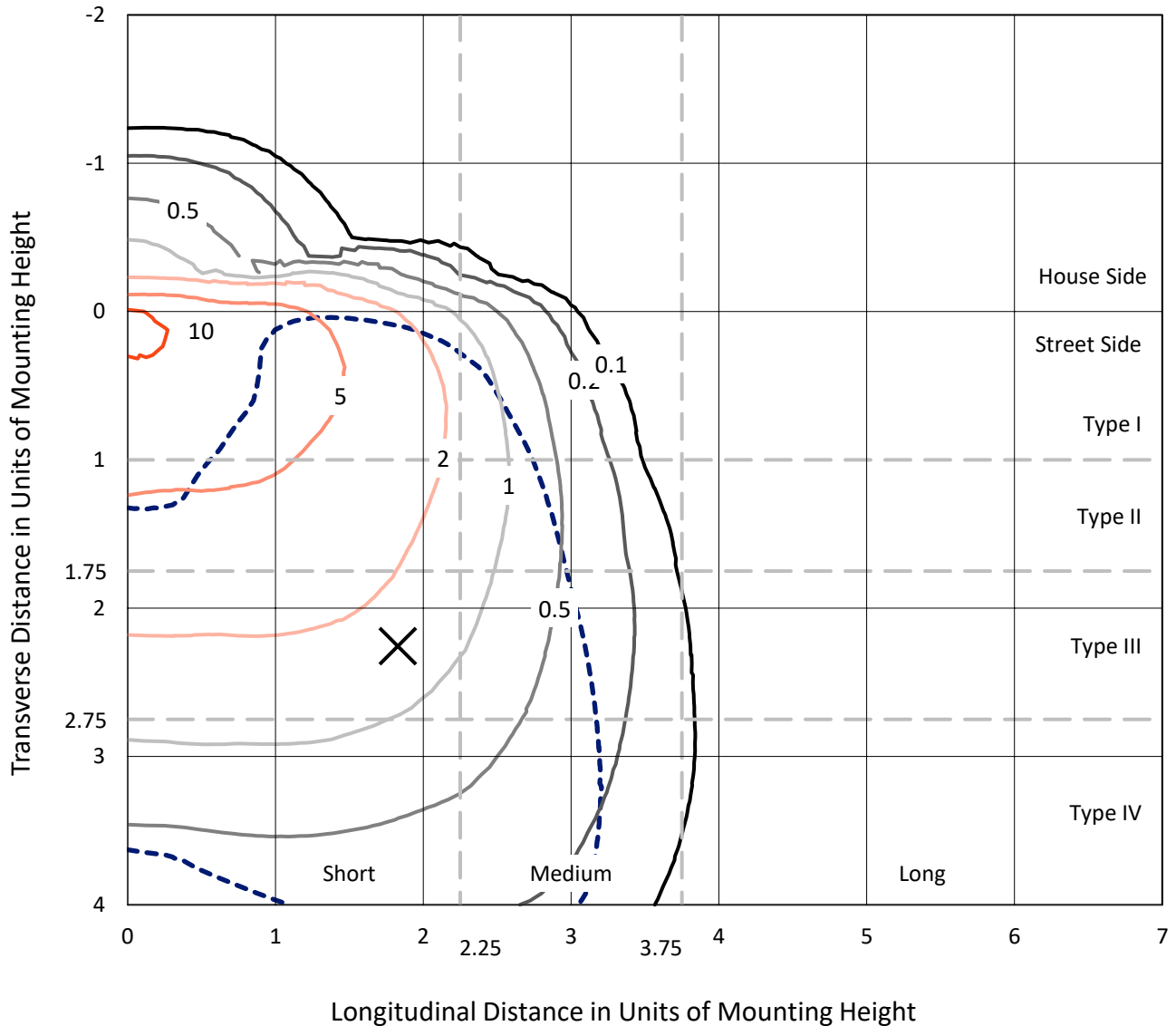
Lumens per Lamp: N/A
Luminaire Lumens: 6060.3 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

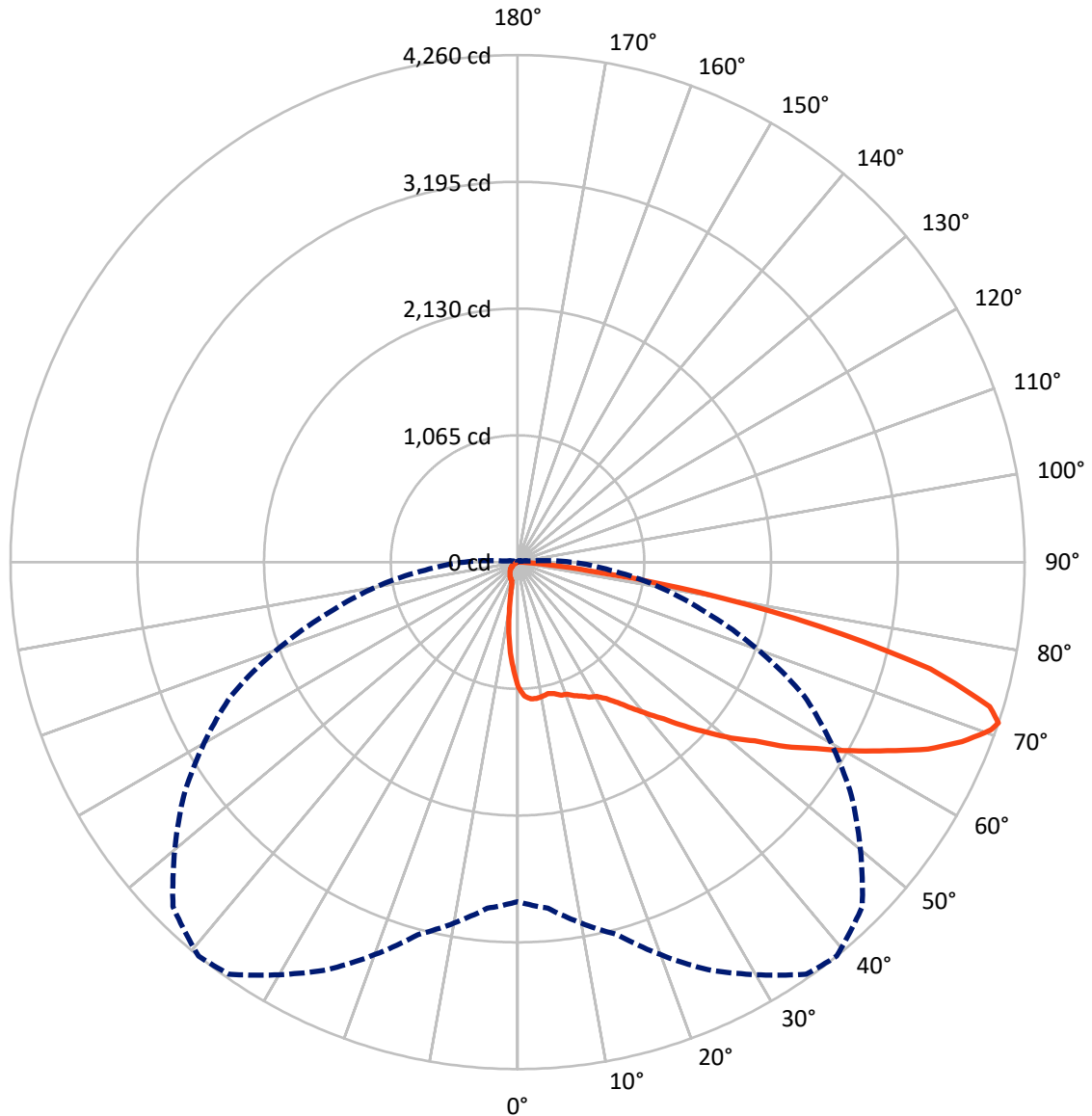
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.4 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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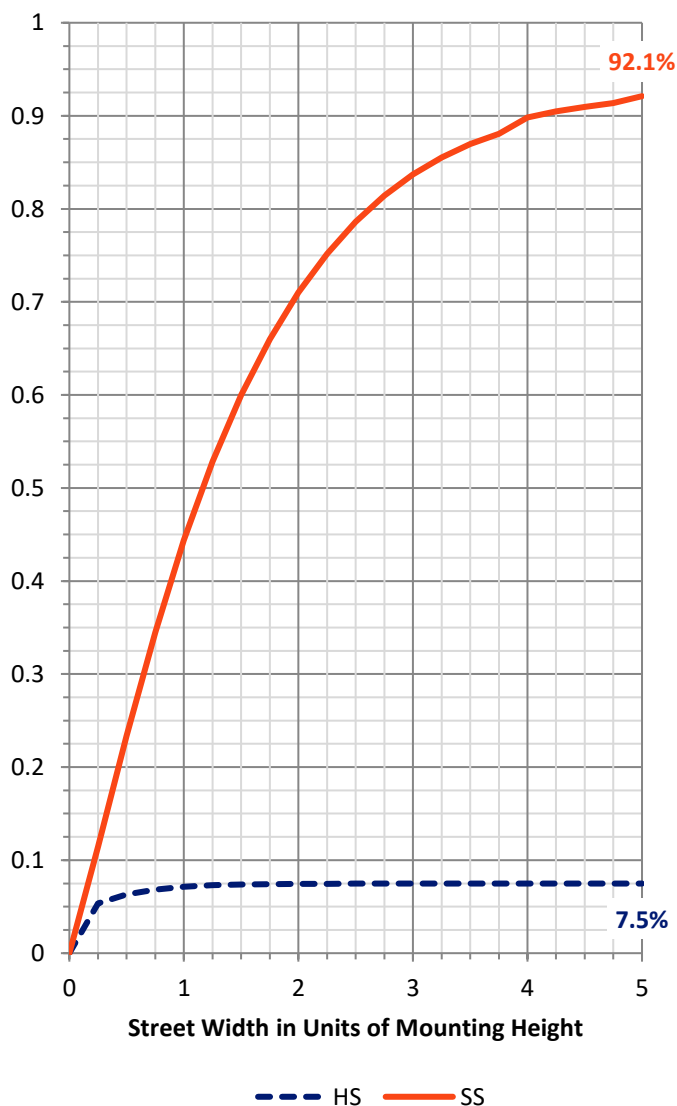
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	456.3	0.0	456.3
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	5604.1	0.0	5604.1
	% Fixture	92.5	0.0	92.5
Total	Lumens	6060.3	0.0	6060.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	1.5
10°-20°	217.1	3.6
20°-30°	348.5	5.8
30°-40°	533.4	8.8
40°-50°	856.2	14.1
50°-60°	1257.7	20.8
60°-70°	1584.0	26.1
70°-80°	1057.1	17.4
80°-90°	118.1	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°	6060.3	100.0
0°-180°	6060.3	100.0

Coefficient of Utilization



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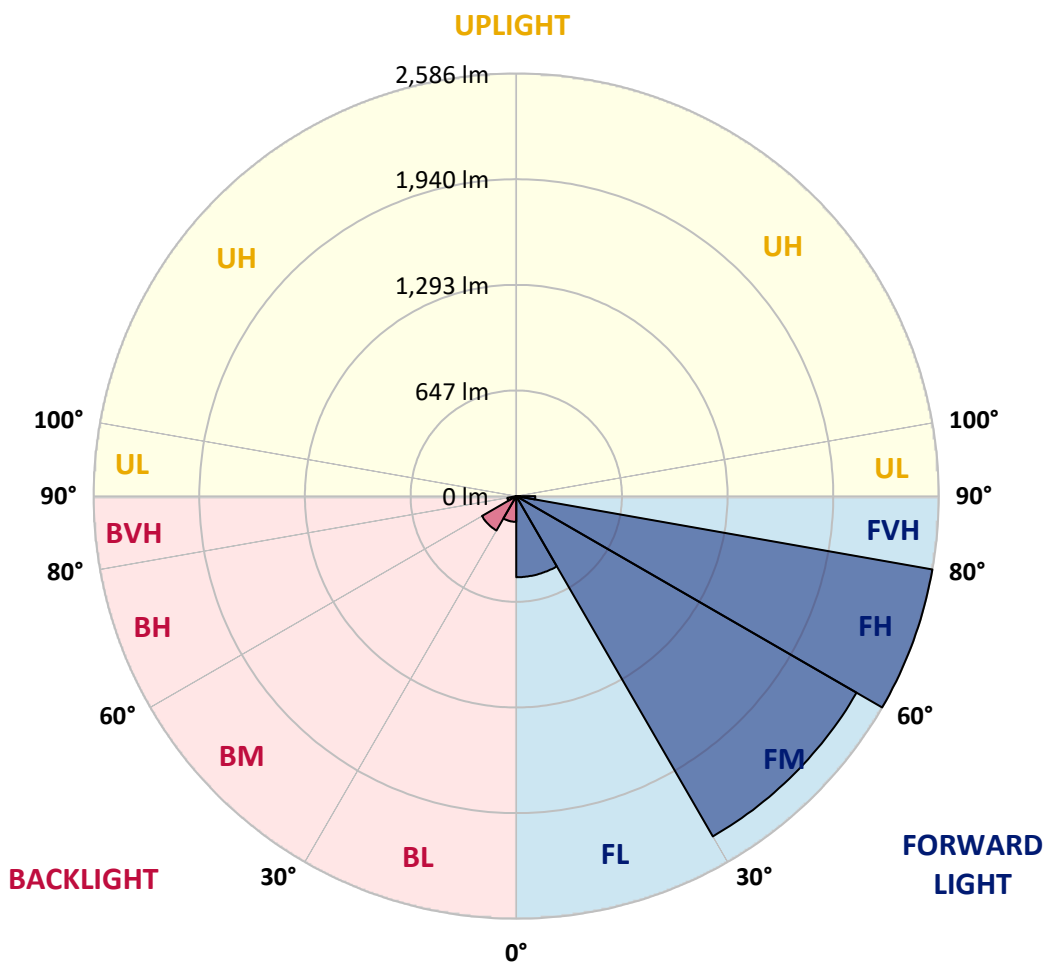
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	496.2	8.2			
FM (30°-60°)	2404.8	39.7			
FH (60°-80°)	2586.2	42.7			G2/5000
FVH (80°-90°)	116.8	1.9			G2/225
BL (0°-30°)	157.5	2.6	B1/500		
BM (30°-60°)	242.5	4.0	B1/1000		
BH (60°-80°)	54.9	0.9	B0/110		G0/110
BVH (80°-90°)	1.3	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°	1054.8	1054.8	1054.8	1054.8	1054.8	1054.8	1054.8	1054.8	1054.8	1054.8	1054.8
2.5°	1136.7	1147.8	1136.7	1131.9	1127.2	1128.0	1115.3	1117.6	1102.5	1082.7	1066.8
5°	1172.5	1187.6	1175.7	1170.1	1169.3	1154.2	1147.8	1132.7	1114.5	1083.5	1064.4
7.5°	1169.3	1166.1	1171.7	1166.9	1156.6	1156.6	1149.4	1128.0	1109.7	1074.7	1042.1
10°	1145.5	1155.0	1150.2	1144.7	1147.0	1147.8	1134.3	1119.2	1113.7	1078.7	1025.4
12.5°	1143.1	1127.2	1144.7	1145.5	1135.1	1134.3	1132.7	1128.8	1111.3	1079.5	1029.4
15°	1135.1	1128.8	1146.3	1147.0	1149.4	1147.0	1149.4	1146.3	1128.8	1110.5	1046.9
17.5°	1141.5	1134.3	1159.0	1170.9	1165.3	1176.5	1172.5	1158.2	1143.1	1121.6	1063.6
20°	1143.1	1153.4	1180.4	1185.2	1202.7	1184.4	1183.6	1168.5	1159.0	1135.9	1073.9
22.5°	1172.5	1177.3	1210.6	1221.0	1221.8	1219.4	1199.5	1182.0	1178.0	1149.4	1076.3
25°	1217.0	1233.7	1248.8	1255.2	1257.5	1246.4	1225.7	1203.5	1193.9	1175.7	1100.9
27.5°	1295.7	1285.4	1298.9	1308.4	1281.4	1285.4	1259.1	1240.1	1226.5	1210.6	1129.6
30°	1365.6	1356.1	1356.9	1355.3	1332.3	1310.8	1303.6	1270.3	1253.6	1259.9	1174.1
32.5°	1428.4	1407.8	1425.3	1417.3	1374.4	1368.0	1362.5	1320.3	1323.5	1352.9	1240.8
35°	1486.5	1479.3	1493.6	1479.3	1450.7	1449.1	1443.5	1407.0	1424.5	1466.6	1355.3
37.5°	1539.7	1542.1	1559.6	1552.5	1554.8	1556.4	1553.2	1514.3	1564.4	1659.0	1488.9
40°	1589.0	1585.8	1628.8	1651.0	1655.8	1673.3	1673.3	1663.7	1740.8	1847.4	1674.1
42.5°	1641.5	1649.4	1705.1	1742.4	1787.7	1802.8	1823.5	1828.3	1947.5	2069.1	1863.3
45°	1727.3	1713.8	1784.6	1872.8	1912.5	1965.8	1997.6	2024.6	2168.5	2335.4	2052.4
47.5°	1836.2	1809.2	1871.2	1999.2	2091.4	2135.1	2192.3	2228.1	2368.8	2541.3	2231.3
50°	1957.1	1929.2	1959.4	2135.9	2243.2	2322.7	2395.8	2441.2	2611.3	2771.8	2361.7
52.5°	2093.8	2068.3	2073.1	2278.2	2436.4	2494.4	2590.6	2658.2	2827.5	2910.9	2407.8
55°	2239.2	2232.9	2217.8	2417.3	2605.7	2736.1	2794.1	2875.2	3049.3	2986.5	2457.8
57.5°	2385.5	2365.6	2387.1	2601.7	2877.6	2955.5	3035.7	3084.2	3172.5	3052.4	2438.8
60°	2523.0	2524.6	2554.8	2802.0	3108.9	3219.4	3291.7	3262.3	3298.9	3081.1	2395.1
62.5°	2639.1	2635.9	2712.2	3027.0	3414.9	3489.6	3543.7	3412.5	3357.7	3108.9	2318.7
65°	2743.2	2779.0	2899.0	3294.9	3702.7	3788.5	3755.9	3554.8	3414.9	3027.0	2104.1
67.5°	2821.9	2875.2	3083.4	3546.9	3966.6	4027.0	3981.7	3662.9	3347.3	2705.9	1713.8
70°	2868.0	2922.1	3215.4	3756.7	4177.2	4220.9	4114.4	3579.5	2953.1	1959.4	1069.1
71°	2853.7	2919.7	3240.8	3779.0	4227.3	4259.9	4094.6	3425.2	2655.8	1640.7	779.8
72.5°	2724.1	2786.1	3135.1	3763.1	4166.9	4147.0	3939.6	3054.8	2090.6	1046.1	403.0
75°	2001.6	2068.3	2690.8	3255.1	3719.4	3582.6	3188.4	2143.9	1090.6	320.3	117.6
77.5°	996.8	1007.9	1670.1	2363.3	2728.1	2592.2	2136.7	1195.5	407.8	94.6	58.8
80°	459.5	462.6	626.4	1224.2	1649.4	1552.5	1197.1	589.8	184.4	50.1	46.1
82.5°	313.2	318.0	377.6	507.1	716.2	604.1	484.9	377.6	105.7	30.2	45.3
85°	57.2	52.5	211.4	268.7	276.6	187.6	167.7	326.7	39.7	17.5	39.7
87.5°	0.0	0.8	29.4	109.7	98.6	43.7	57.2	79.5	4.0	5.6	7.2
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°	1054.8	1054.8	1054.8	1054.8	1054.8	1054.8	1054.8	1054.8	1054.8	1054.8	1054.8
2.5°	1053.2	1044.5	1015.1	982.5	953.1	930.0	900.6	887.1	865.7	853.7	852.9
5°	1038.1	1014.3	963.4	908.6	847.4	796.5	740.1	708.3	671.7	660.6	658.2
7.5°	1012.7	978.5	903.8	826.7	732.9	643.1	573.9	500.0	454.7	435.6	428.5
10°	996.8	955.5	853.7	738.5	607.3	480.9	383.9	305.2	263.9	244.0	239.3
12.5°	996.8	952.3	813.2	654.2	480.1	329.1	237.7	192.4	178.9	174.1	174.1
15°	994.4	945.9	774.2	567.6	355.3	221.0	177.3	167.7	166.1	165.3	164.5
17.5°	1006.4	934.8	734.5	474.6	251.2	174.1	163.0	161.4	159.8	159.8	158.2
20°	1015.1	928.4	686.8	376.0	187.6	161.4	156.6	154.2	153.4	152.6	154.2
22.5°	1007.9	918.9	628.0	281.4	163.8	153.4	150.2	147.9	146.3	146.3	147.1
25°	1021.5	910.2	569.2	212.2	153.4	146.3	143.1	141.5	140.7	139.9	138.3
27.5°	1039.7	914.1	499.2	170.9	144.7	139.1	135.9	134.3	133.5	132.0	133.5
30°	1062.0	913.3	422.1	149.4	136.7	131.2	128.0	127.2	125.6	124.8	125.6
32.5°	1100.1	934.0	342.6	138.3	128.0	123.2	120.0	119.2	118.4	117.6	116.9
35°	1182.0	959.5	267.9	129.6	120.0	114.5	112.1	110.5	109.7	108.9	108.1
37.5°	1283.0	1015.9	204.3	121.6	112.1	106.5	104.1	103.3	100.2	99.4	98.6
40°	1409.4	1076.3	157.4	112.9	104.9	99.4	97.0	94.6	90.6	89.0	87.4
42.5°	1566.8	1135.1	129.6	104.9	97.0	93.0	89.0	85.1	81.9	78.7	77.1
45°	1724.2	1203.5	113.7	97.8	90.6	85.8	82.7	77.1	71.5	66.8	66.0
47.5°	1855.3	1228.1	104.1	89.8	84.3	80.3	75.5	68.4	60.4	55.6	54.8
50°	1953.1	1213.8	94.6	81.9	77.1	73.1	66.8	58.0	50.1	45.3	43.7
52.5°	1972.2	1151.0	85.8	75.5	70.0	65.2	58.0	48.5	39.7	35.0	34.2
55°	1958.6	1046.9	78.7	70.0	63.6	56.4	48.5	39.0	31.0	26.2	25.4
57.5°	1930.8	923.7	70.7	62.8	55.6	48.5	39.7	31.8	23.1	18.3	18.3
60°	1836.2	756.0	62.8	54.8	47.7	41.3	32.6	23.1	15.9	11.9	11.1
62.5°	1704.3	581.1	54.8	46.9	41.3	34.2	25.4	16.7	9.5	6.4	6.4
65°	1463.4	407.0	46.1	39.0	34.2	27.8	19.1	10.3	5.6	2.4	2.4
67.5°	1112.1	252.0	38.2	32.6	29.4	22.3	13.5	6.4	2.4	0.8	0.0
70°	638.3	131.2	30.2	26.2	23.1	16.7	9.5	3.2	1.6	0.0	0.0
71°	445.9	97.0	27.0	23.1	20.7	15.1	7.9	2.4	0.8	0.0	0.0
72.5°	223.4	64.4	23.1	19.1	16.7	11.9	6.4	2.4	0.8	0.0	0.0
75°	79.5	41.3	15.9	12.7	11.9	8.7	4.0	1.6	0.8	0.0	0.0
77.5°	54.8	33.4	11.1	7.9	7.9	5.6	2.4	0.8	0.8	0.0	0.0
80°	50.1	18.3	7.2	4.8	4.0	3.2	1.6	0.8	0.0	0.0	0.0
82.5°	50.1	13.5	4.0	3.2	2.4	1.6	0.8	0.0	0.0	0.0	0.0
85°	35.0	7.2	2.4	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0
87.5°	5.6	2.4	1.6	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)