

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: P484898

Luminaire Tested: **IFLD-S-SA2A-827-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484898
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-827-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

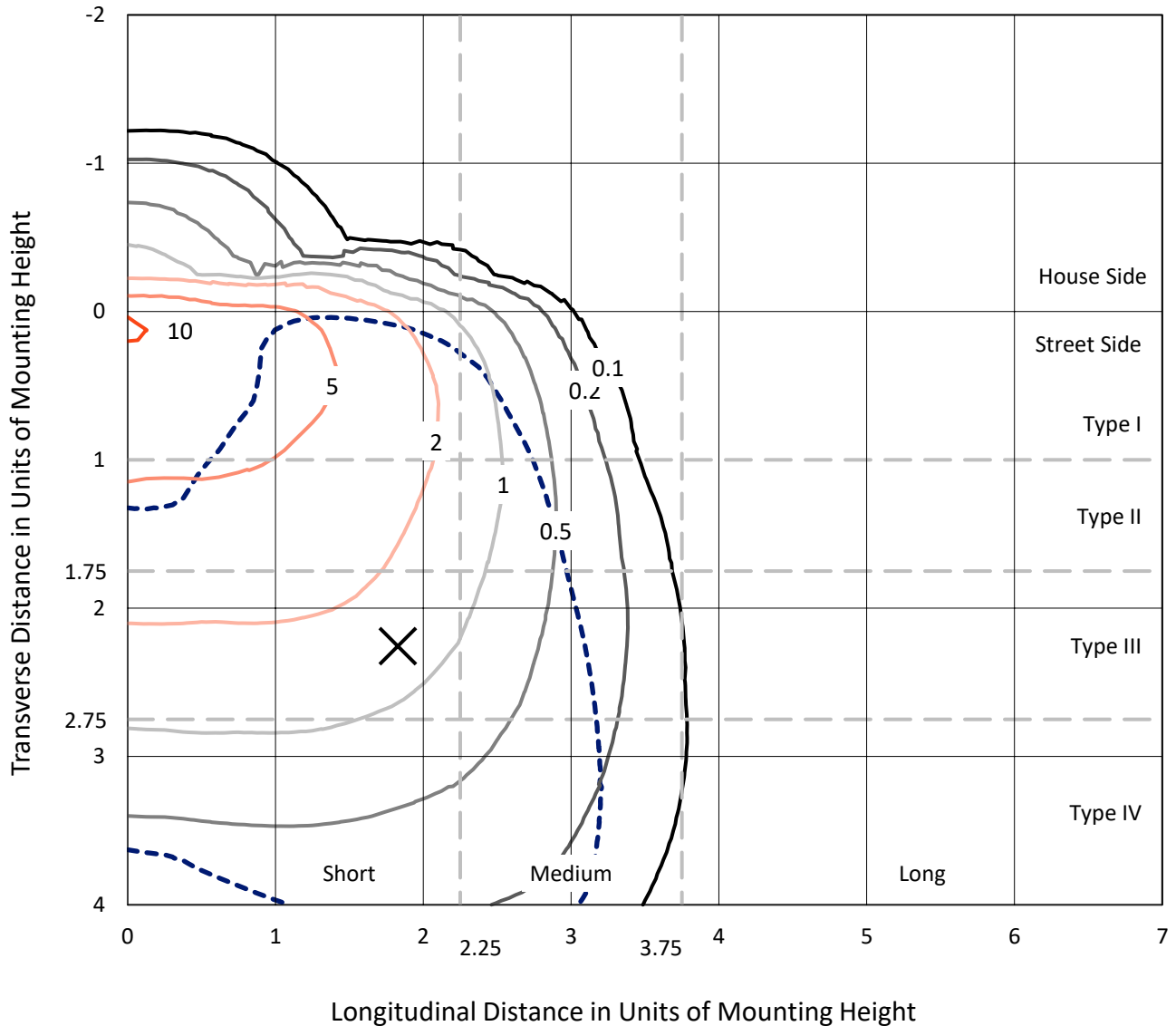
Lumens per Lamp: N/A
Luminaire Lumens: 5606.5 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

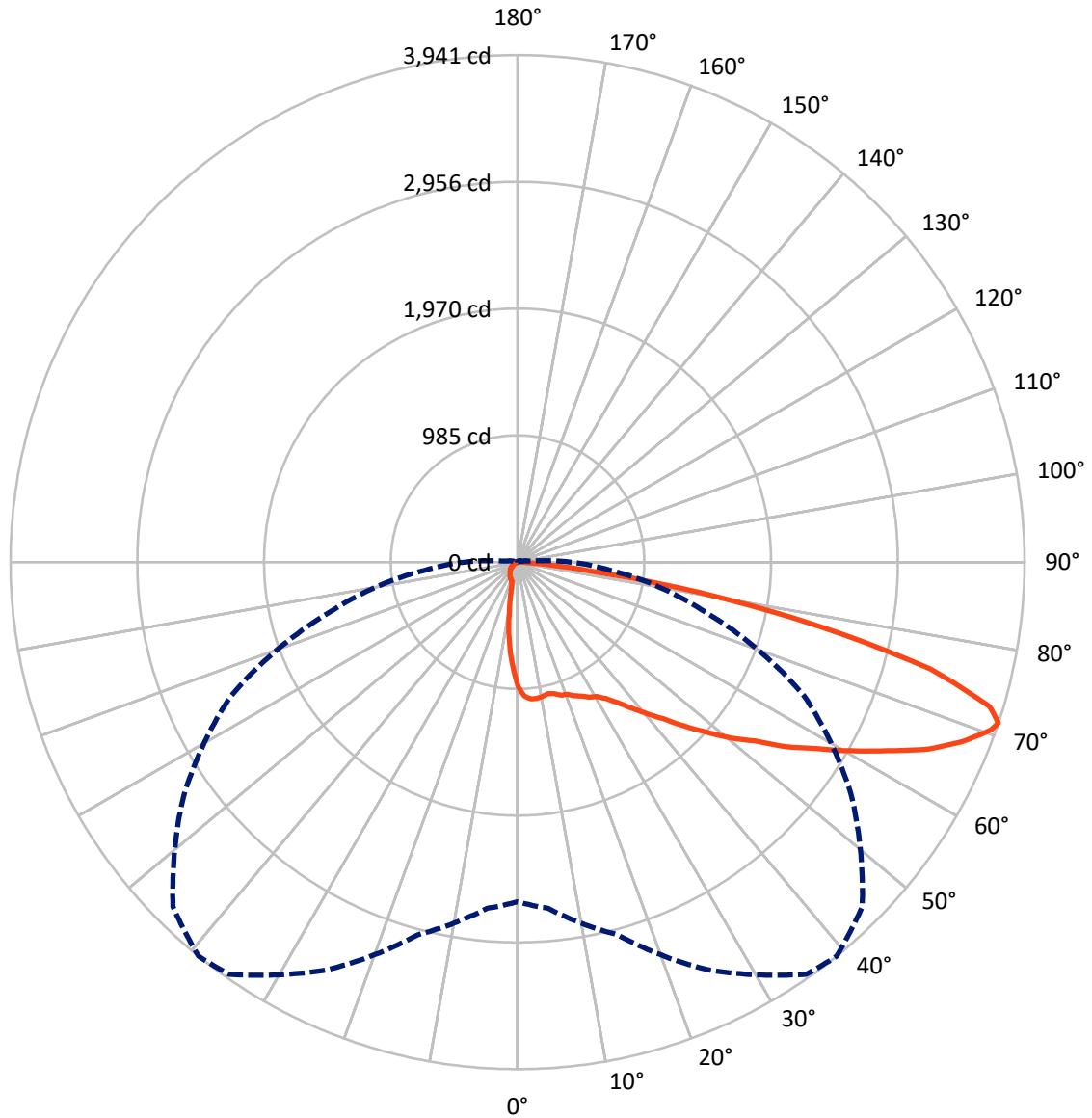
× Max cd
 - - - 1/2 Max cd



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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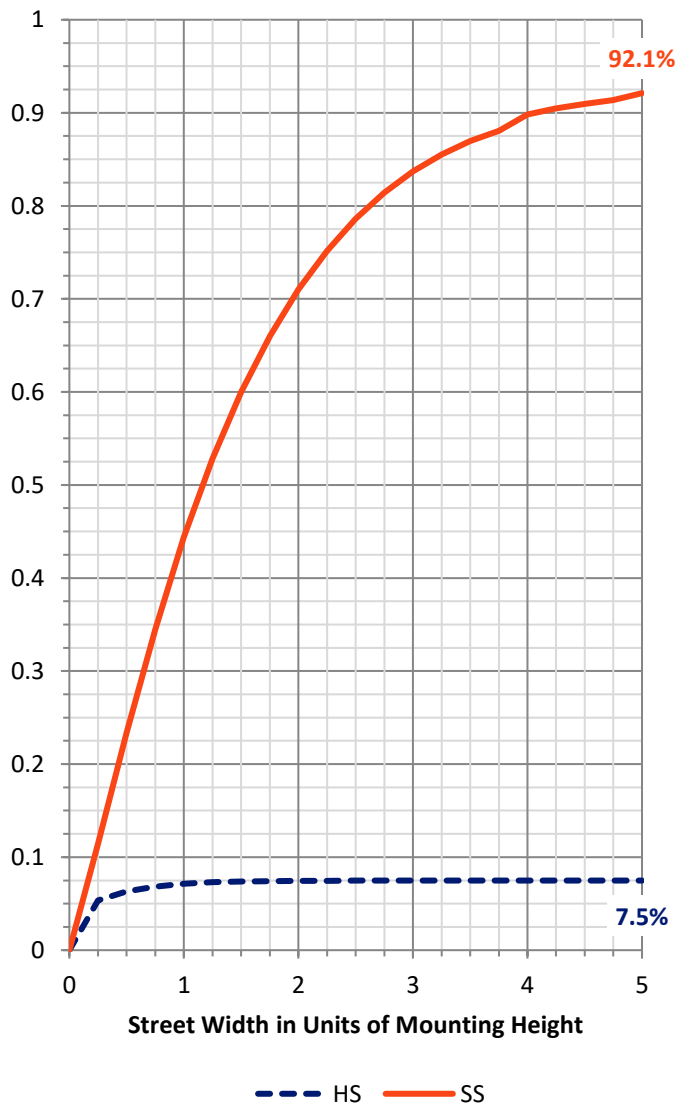
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	422.1	0.0	422.1
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	5184.4	0.0	5184.4
	% Fixture	92.5	0.0	92.5
Total	Lumens	5606.5	0.0	5606.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.6	1.5
10°-20°	200.8	3.6
20°-30°	322.4	5.8
30°-40°	493.5	8.8
40°-50°	792.1	14.1
50°-60°	1163.5	20.8
60°-70°	1465.4	26.1
70°-80°	978.0	17.4
80°-90°	109.3	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°	5606.5	100.0
0°-180°	5606.5	100.0

Coefficient of Utilization



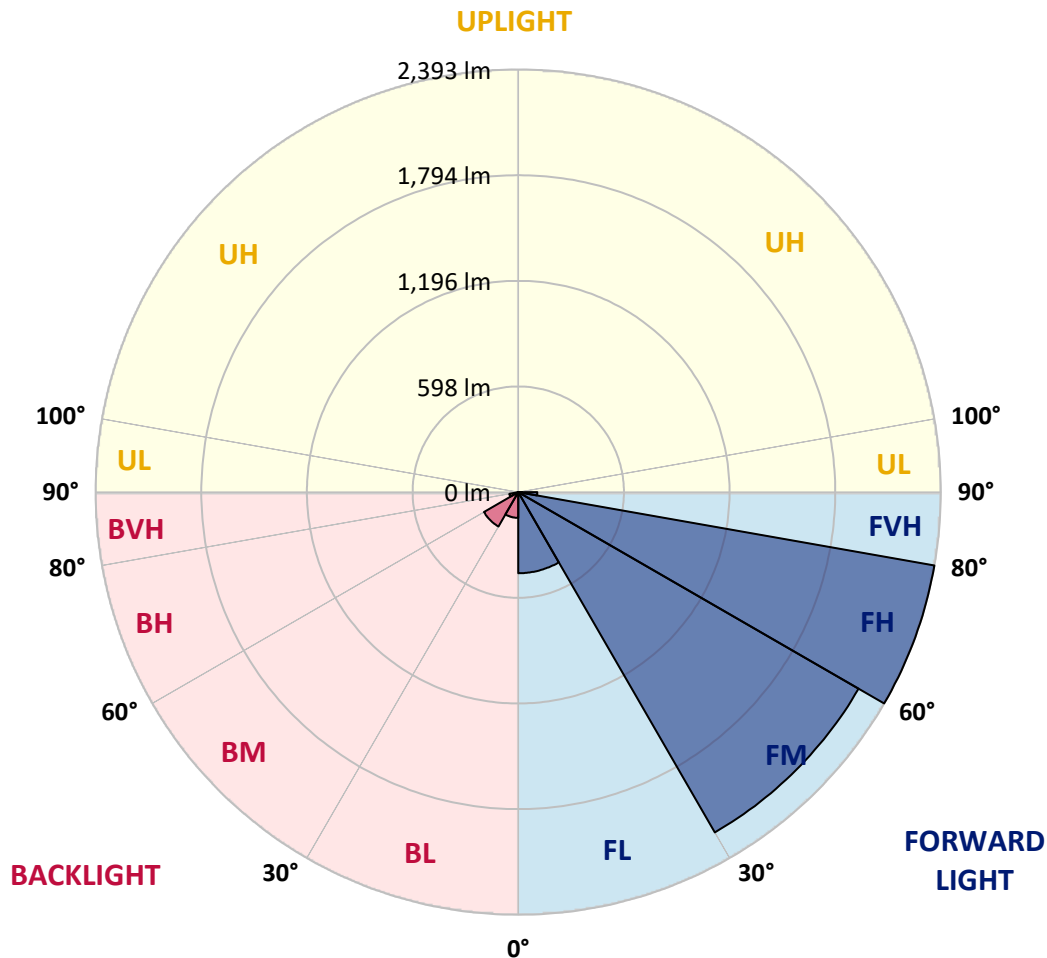
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	459.1	8.2			
FM (30°-60°)	2224.8	39.7			
FH (60°-80°)	2392.5	42.7			G2/5000
FVH (80°-90°)	108.1	1.9			G2/225
BL (0°-30°)	145.7	2.6	B1/500		
BM (30°-60°)	224.4	4.0	B1/1000		
BH (60°-80°)	50.8	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°	975.9	975.9	975.9	975.9	975.9	975.9	975.9	975.9	975.9	975.9	975.9
2.5°	1051.6	1061.9	1051.6	1047.2	1042.8	1043.5	1031.7	1033.9	1020.0	1001.6	986.9
5°	1084.7	1098.7	1087.6	1082.5	1081.7	1067.8	1061.9	1047.9	1031.0	1002.3	984.7
7.5°	1081.7	1078.8	1084.0	1079.5	1070.0	1070.0	1063.4	1043.5	1026.6	994.2	964.1
10°	1059.7	1068.5	1064.1	1059.0	1061.2	1061.9	1049.4	1035.4	1030.3	997.9	948.6
12.5°	1057.5	1042.8	1059.0	1059.7	1050.1	1049.4	1047.9	1044.2	1028.1	998.6	952.3
15°	1050.1	1044.2	1060.4	1061.2	1063.4	1061.2	1063.4	1060.4	1044.2	1027.3	968.5
17.5°	1056.0	1049.4	1072.2	1083.2	1078.1	1088.4	1084.7	1071.5	1057.5	1037.6	983.9
20°	1057.5	1067.0	1092.0	1096.5	1112.6	1095.7	1095.0	1081.0	1072.2	1050.9	993.5
22.5°	1084.7	1089.1	1120.0	1129.5	1130.3	1128.1	1109.7	1093.5	1089.8	1063.4	995.7
25°	1125.9	1141.3	1155.3	1161.2	1163.4	1153.1	1134.0	1113.4	1104.5	1087.6	1018.5
27.5°	1198.7	1189.1	1201.6	1210.4	1185.4	1189.1	1164.8	1147.2	1134.7	1120.0	1045.0
30°	1263.4	1254.6	1255.3	1253.8	1232.5	1212.6	1206.0	1175.1	1159.7	1165.6	1086.2
32.5°	1321.5	1302.4	1318.5	1311.2	1271.5	1265.6	1260.4	1221.5	1224.4	1251.6	1147.9
35°	1375.2	1368.5	1381.8	1368.5	1342.1	1340.6	1335.5	1301.6	1317.8	1356.8	1253.8
37.5°	1424.4	1426.6	1442.8	1436.2	1438.4	1439.9	1436.9	1400.9	1447.2	1534.7	1377.4
40°	1470.0	1467.1	1506.8	1527.4	1531.8	1548.0	1548.0	1539.2	1610.5	1709.0	1548.7
42.5°	1518.6	1525.9	1577.4	1612.0	1653.9	1667.8	1687.0	1691.4	1801.7	1914.2	1723.7
45°	1598.0	1585.5	1650.9	1732.6	1769.3	1818.6	1848.0	1873.0	2006.1	2160.6	1898.8
47.5°	1698.7	1673.7	1731.1	1849.5	1934.8	1975.2	2028.2	2061.3	2191.4	2351.0	2064.2
50°	1810.5	1784.8	1812.7	1976.0	2075.2	2148.8	2216.4	2258.4	2415.7	2564.3	2184.8
52.5°	1937.0	1913.5	1917.9	2107.6	2253.9	2307.6	2396.6	2459.1	2615.8	2693.0	2227.5
55°	2071.6	2065.7	2051.7	2236.3	2410.6	2531.2	2584.9	2659.9	2820.9	2762.8	2273.8
57.5°	2206.9	2188.5	2208.4	2406.9	2662.1	2734.2	2808.4	2853.3	2934.9	2823.9	2256.2
60°	2334.1	2335.6	2363.5	2592.2	2876.1	2978.3	3045.2	3018.0	3051.8	2850.3	2215.7
62.5°	2441.5	2438.5	2509.1	2800.3	3159.2	3228.3	3278.3	3157.0	3106.3	2876.1	2145.1
65°	2537.8	2570.9	2681.9	3048.2	3425.4	3504.8	3474.7	3288.6	3159.2	2800.3	1946.6
67.5°	2610.6	2659.9	2852.5	3281.3	3669.6	3725.4	3683.5	3388.6	3096.7	2503.2	1585.5
70°	2653.3	2703.3	2974.6	3475.4	3864.4	3904.9	3806.3	3311.4	2731.9	1812.7	989.1
71°	2640.0	2701.1	2998.2	3496.0	3910.8	3940.9	3788.0	3168.8	2456.9	1517.8	721.4
72.5°	2520.2	2577.5	2900.3	3481.3	3854.9	3836.5	3644.6	2826.1	1934.1	967.8	372.8
75°	1851.7	1913.5	2489.3	3011.4	3440.9	3314.4	2949.6	1983.3	1008.9	296.4	108.8
77.5°	922.2	932.5	1545.0	2186.3	2523.8	2398.1	1976.7	1106.0	377.3	87.5	54.4
80°	425.1	428.0	579.5	1132.5	1525.9	1436.2	1107.5	545.7	170.6	46.3	42.7
82.5°	289.7	294.2	349.3	469.2	662.6	558.9	448.6	349.3	97.8	27.9	41.9
85°	52.9	48.5	195.6	248.6	255.9	173.6	155.2	302.2	36.8	16.2	36.8
87.5°	0.0	0.7	27.2	101.5	91.2	40.4	52.9	73.5	3.7	5.1	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°	975.9	975.9	975.9	975.9	975.9	975.9	975.9	975.9	975.9	975.9	975.9
2.5°	974.4	966.3	939.1	908.9	881.7	860.4	833.2	820.7	800.8	789.8	789.1
5°	960.4	938.3	891.3	840.5	783.9	736.9	684.6	655.2	621.4	611.1	608.9
7.5°	936.9	905.3	836.1	764.8	678.0	594.9	530.9	462.6	420.6	403.0	396.4
10°	922.2	883.9	789.8	683.2	561.8	444.9	355.2	282.4	244.1	225.8	221.4
12.5°	922.2	881.0	752.3	605.2	444.2	304.4	219.9	178.0	165.5	161.0	161.0
15°	920.0	875.1	716.3	525.1	328.7	204.4	164.0	155.2	153.7	153.0	152.2
17.5°	931.0	864.8	679.5	439.0	232.4	161.0	150.8	149.3	147.8	147.8	146.3
20°	939.1	858.9	635.4	347.8	173.6	149.3	144.9	142.7	141.9	141.2	142.7
22.5°	932.5	850.1	581.0	260.3	151.5	141.9	139.0	136.8	135.3	135.3	136.0
25°	945.0	842.0	526.5	196.3	141.9	135.3	132.4	130.9	130.2	129.4	128.0
27.5°	961.9	845.7	461.8	158.1	133.8	128.7	125.8	124.3	123.5	122.1	123.5
30°	982.5	845.0	390.5	138.3	126.5	121.3	118.4	117.7	116.2	115.5	116.2
32.5°	1017.8	864.1	316.9	128.0	118.4	114.0	111.0	110.3	109.6	108.8	108.1
35°	1093.5	887.6	247.8	119.9	111.0	105.9	103.7	102.2	101.5	100.7	100.0
37.5°	1186.9	939.8	189.0	112.5	103.7	98.5	96.3	95.6	92.7	91.9	91.2
40°	1303.8	995.7	145.6	104.4	97.1	91.9	89.7	87.5	83.8	82.4	80.9
42.5°	1449.4	1050.1	119.9	97.1	89.7	86.0	82.4	78.7	75.7	72.8	71.3
45°	1595.0	1113.4	105.2	90.5	83.8	79.4	76.5	71.3	66.2	61.8	61.0
47.5°	1716.4	1136.2	96.3	83.1	78.0	74.3	69.9	63.2	55.9	51.5	50.7
50°	1806.8	1122.9	87.5	75.7	71.3	67.7	61.8	53.7	46.3	41.9	40.4
52.5°	1824.5	1064.8	79.4	69.9	64.7	60.3	53.7	44.9	36.8	32.4	31.6
55°	1812.0	968.5	72.8	64.7	58.8	52.2	44.9	36.0	28.7	24.3	23.5
57.5°	1786.2	854.5	65.4	58.1	51.5	44.9	36.8	29.4	21.3	16.9	16.9
60°	1698.7	699.3	58.1	50.7	44.1	38.2	30.2	21.3	14.7	11.0	10.3
62.5°	1576.7	537.6	50.7	43.4	38.2	31.6	23.5	15.4	8.8	5.9	5.9
65°	1353.8	376.5	42.7	36.0	31.6	25.7	17.6	9.6	5.1	2.2	2.2
67.5°	1028.8	233.1	35.3	30.2	27.2	20.6	12.5	5.9	2.2	0.7	0.0
70°	590.5	121.3	27.9	24.3	21.3	15.4	8.8	2.9	1.5	0.0	0.0
71°	412.5	89.7	25.0	21.3	19.1	14.0	7.4	2.2	0.7	0.0	0.0
72.5°	206.6	59.6	21.3	17.6	15.4	11.0	5.9	2.2	0.7	0.0	0.0
75°	73.5	38.2	14.7	11.8	11.0	8.1	3.7	1.5	0.7	0.0	0.0
77.5°	50.7	30.9	10.3	7.4	7.4	5.1	2.2	0.7	0.7	0.0	0.0
80°	46.3	16.9	6.6	4.4	3.7	2.9	1.5	0.7	0.0	0.0	0.0
82.5°	46.3	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°	5.1	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)