

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: P691617

Luminaire Tested: **CRTK2-C018-5TLD-U-T3-7050-U0-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-12)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C018-5TLD-U-T3-7050-U0-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K LED WITH TYPE III OPTIC AND U0 SHIELD WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7283 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Luminous Opening: Circular (Dia: 0.33' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

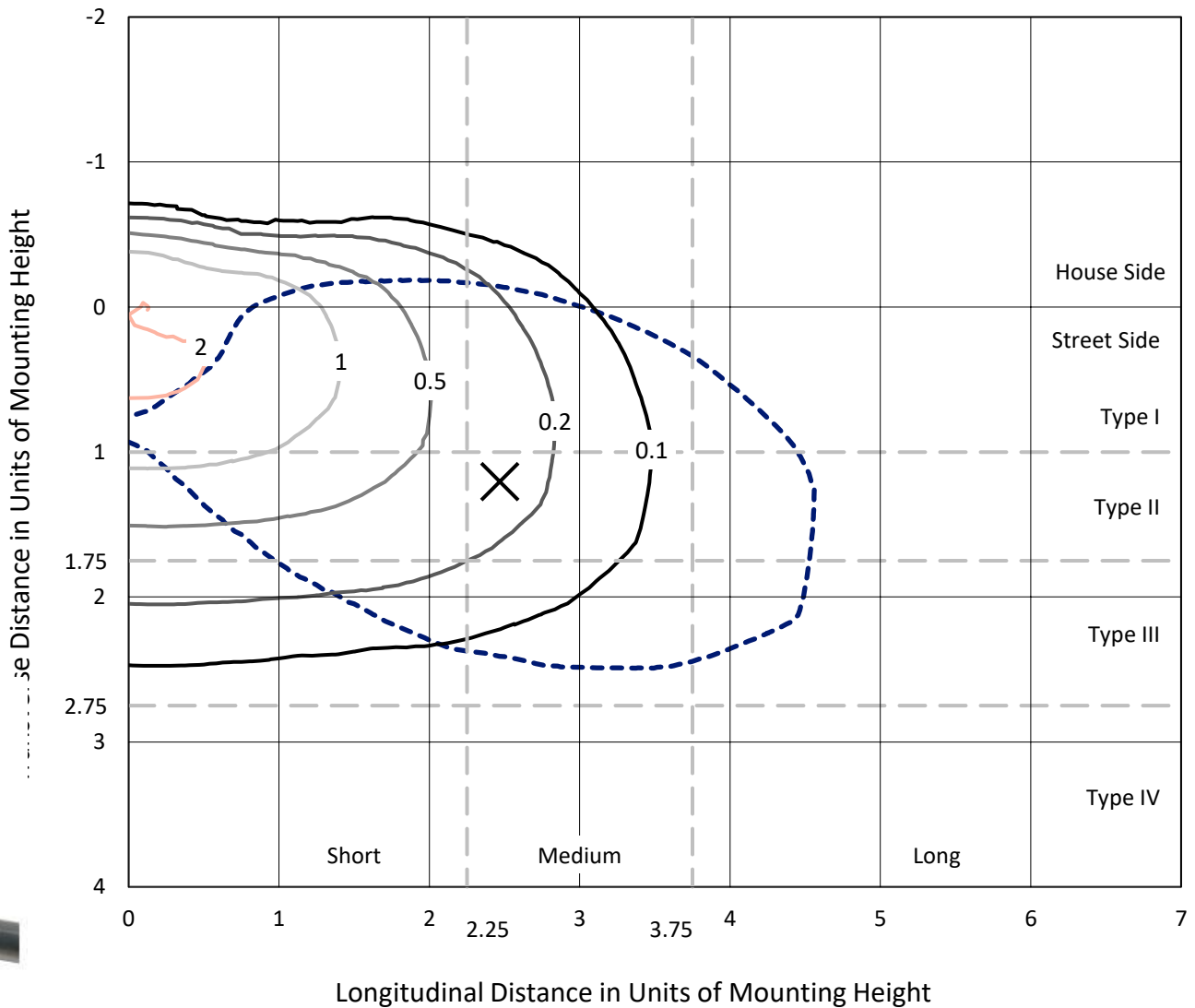
Input Watts (W): 53.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

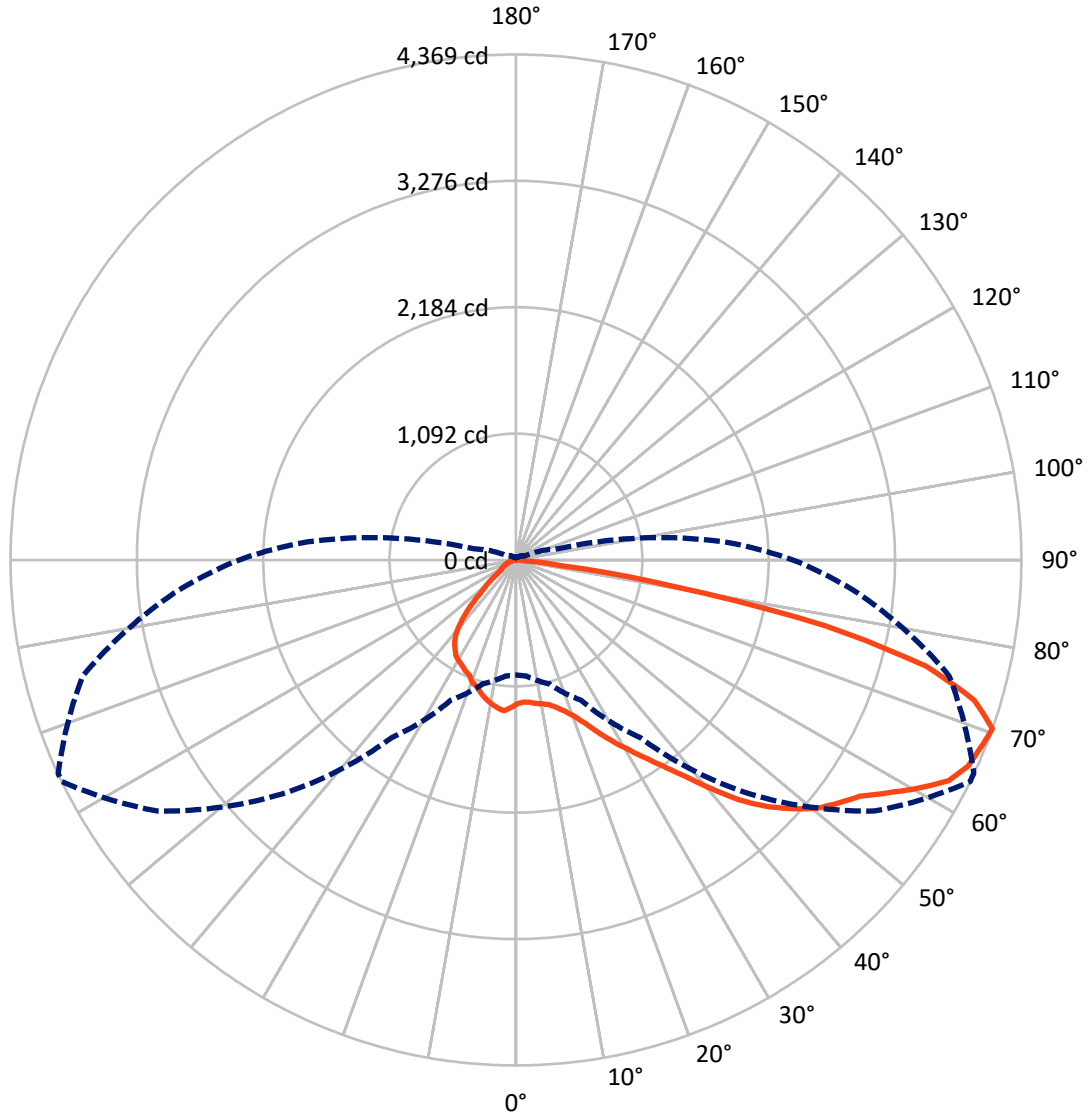
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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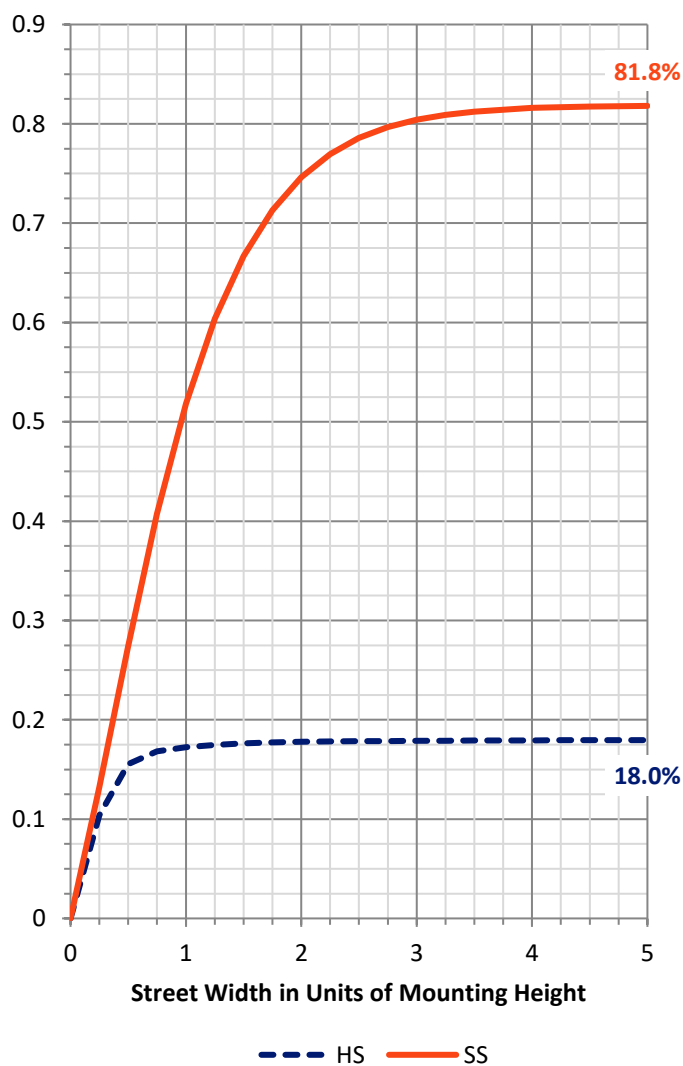
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1323.6	0.0	1323.6
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	5959.4	0.0	5959.4
	% Fixture	81.8	0.0	81.8
Total	Lumens	7283.0	0.0	7283.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.2	1.7
10°-20°	358.5	4.9
20°-30°	604.1	8.3
30°-40°	889.0	12.2
40°-50°	1219.1	16.7
50°-60°	1483.4	20.4
60°-70°	1574.9	21.6
70°-80°	965.4	13.3
80°-90°	67.4	0.9
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°	7283.0	100.0
0°-180°	7283.0	100.0

Coefficient of Utilization



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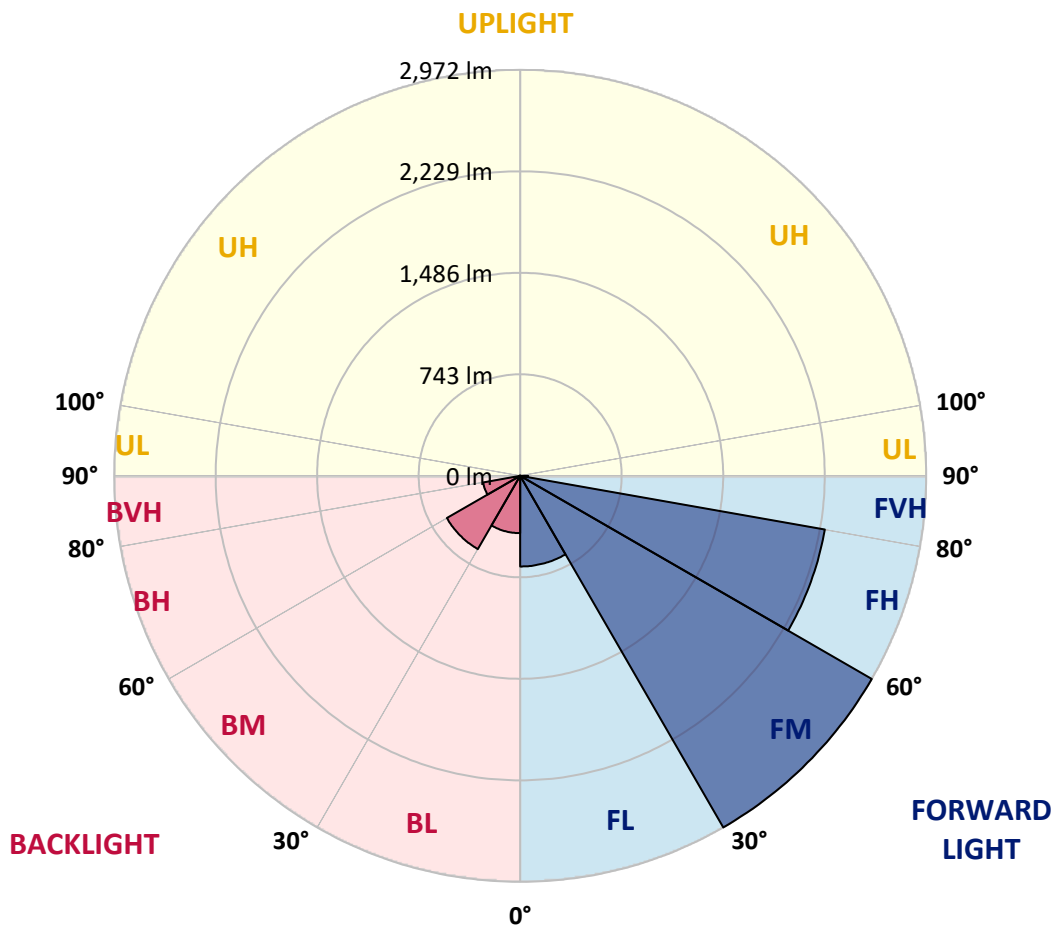
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	663.9	9.1			
FM (30°-60°)	2972.0	40.8			
FH (60°-80°)	2264.8	31.1			G2/5000
FVH (80°-90°)	58.7	0.8			G1/100
BL (0°-30°)	419.9	5.8	B1/500		
BM (30°-60°)	619.5	8.5	B1/1000		
BH (60°-80°)	275.6	3.8	B1/500		G1/500
BVH (80°-90°)	8.6	0.1			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6
2.5°	1230.2	1230.2	1232.9	1230.2	1235.6	1227.6	1230.2	1230.2	1230.2	1232.9	1240.9
5°	1267.6	1267.6	1262.3	1254.2	1246.2	1235.6	1235.6	1235.6	1235.6	1240.9	1259.6
7.5°	1291.6	1288.9	1288.9	1288.9	1280.9	1259.6	1254.2	1251.6	1251.6	1251.6	1270.3
10°	1350.3	1342.3	1331.6	1315.6	1307.6	1288.9	1267.6	1264.9	1264.9	1267.6	1291.6
12.5°	1406.4	1398.4	1398.4	1387.7	1355.7	1334.3	1296.9	1283.6	1283.6	1288.9	1302.3
15°	1499.8	1491.8	1470.4	1451.7	1422.4	1385.0	1347.7	1323.6	1321.0	1331.6	1313.0
17.5°	1566.5	1553.1	1555.8	1526.4	1502.4	1449.1	1411.7	1374.3	1374.3	1385.0	1347.7
20°	1630.5	1630.5	1633.2	1630.5	1590.5	1547.8	1486.4	1441.1	1443.7	1446.4	1387.7
22.5°	1726.6	1723.9	1723.9	1726.6	1699.9	1651.9	1585.2	1534.5	1531.8	1510.4	1438.4
25°	1838.7	1833.3	1822.7	1833.3	1820.0	1764.0	1699.9	1649.2	1641.2	1611.8	1513.1
27.5°	1932.1	1932.1	1932.1	1937.4	1937.4	1897.4	1825.3	1772.0	1777.3	1737.3	1601.2
30°	1998.8	1998.8	2022.8	2033.5	2041.5	2028.1	1950.8	1894.7	1905.4	1857.4	1710.6
32.5°	2070.8	2068.2	2100.2	2124.2	2134.9	2140.2	2076.2	2030.8	2033.5	1990.8	1836.0
35°	2137.6	2132.2	2174.9	2225.6	2252.3	2247.0	2201.6	2185.6	2190.9	2177.6	2006.8
37.5°	2185.6	2193.6	2249.6	2316.4	2359.1	2369.7	2340.4	2369.7	2399.1	2417.8	2228.3
40°	2239.0	2239.0	2292.3	2364.4	2431.1	2471.1	2492.5	2599.2	2623.2	2636.6	2359.1
42.5°	2185.6	2204.3	2316.4	2420.4	2508.5	2569.9	2657.9	2836.7	2863.4	2780.7	2532.5
45°	2140.2	2156.2	2268.3	2444.5	2572.5	2692.6	2852.7	3039.6	3066.2	2924.8	2631.3
47.5°	2094.9	2113.5	2231.0	2425.8	2631.3	2828.7	3010.2	3213.0	3226.4	3050.2	2762.0
50°	2044.2	2062.8	2185.6	2401.8	2665.9	2975.5	3165.0	3373.1	3375.8	3159.6	2828.7
52.5°	1980.1	2004.1	2126.9	2367.1	2695.3	3074.2	3303.7	3490.5	3474.5	3293.1	2908.8
55°	1900.1	1926.7	2062.8	2321.7	2711.3	3138.3	3394.5	3605.3	3594.6	3447.8	3012.9
57.5°	1809.3	1838.7	1980.1	2252.3	2706.0	3170.3	3487.9	3794.8	3800.1	3575.9	3090.3
60°	1705.2	1731.9	1865.4	2161.6	2636.6	3229.0	3688.0	4002.9	4021.6	3717.4	3122.3
62.5°	1569.1	1593.2	1721.3	2028.1	2548.5	3271.7	3840.1	4200.4	4192.4	3813.4	3133.0
65°	1398.4	1425.0	1545.1	1852.0	2409.8	3245.0	3888.2	4293.8	4293.8	3882.8	3124.9
67.5°	1224.9	1248.9	1350.3	1627.9	2185.6	3111.6	3858.8	4331.2	4355.2	3928.2	3052.9
70°	992.7	1006.1	1107.5	1337.0	1873.4	2860.8	3784.1	4368.5	4365.9	3877.5	2916.8
72.5°	728.5	744.5	827.3	1003.4	1449.1	2476.5	3549.3	4141.7	4099.0	3605.3	2652.6
75°	376.3	392.3	456.3	629.8	923.3	1747.9	3026.2	3658.7	3650.7	3191.7	2196.3
77.5°	50.7	50.7	58.7	104.1	213.5	696.5	1982.8	2740.7	2724.7	2433.8	1595.8
80°	34.7	34.7	40.0	48.0	61.4	152.1	699.2	1390.3	1414.4	1254.2	715.2
82.5°	26.7	24.0	29.4	34.7	37.4	69.4	213.5	384.3	389.6	349.6	218.8
85°	16.0	16.0	16.0	16.0	13.3	18.7	48.0	64.0	72.1	69.4	56.0
87.5°	8.0	8.0	8.0	5.3	2.7	2.7	2.7	2.7	2.7	2.7	2.7
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°	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6
2.5°	1243.6	1251.6	1262.3	1275.6	1288.9	1299.6	1310.3	1315.6	1321.0	1323.6	1326.3
5°	1264.9	1275.6	1288.9	1307.6	1307.6	1299.6	1294.3	1294.3	1299.6	1307.6	1310.3
7.5°	1286.3	1296.9	1291.6	1288.9	1291.6	1280.9	1267.6	1259.6	1254.2	1254.2	1259.6
10°	1294.3	1283.6	1278.3	1264.9	1238.2	1232.9	1222.2	1200.9	1195.5	1200.9	1182.2
12.5°	1288.9	1280.9	1254.2	1232.9	1206.2	1160.8	1134.2	1134.2	1120.8	1118.1	1120.8
15°	1302.3	1275.6	1243.6	1198.2	1150.2	1112.8	1070.1	1032.8	1022.1	1024.7	1024.7
17.5°	1313.0	1286.3	1222.2	1152.8	1110.1	1043.4	995.4	974.0	955.4	952.7	952.7
20°	1337.0	1299.6	1208.9	1134.2	1027.4	976.7	923.3	896.7	867.3	827.3	813.9
22.5°	1374.3	1323.6	1200.9	1083.5	990.1	910.0	832.6	752.5	704.5	672.5	680.5
25°	1425.0	1369.0	1208.9	1064.8	934.0	832.6	731.2	621.8	549.7	528.4	541.7
27.5°	1515.8	1419.7	1232.9	1038.1	894.0	741.9	589.8	493.7	427.0	405.6	413.6
30°	1598.5	1497.1	1235.6	1022.1	829.9	635.1	464.3	357.6	304.2	272.2	264.2
32.5°	1747.9	1579.8	1302.3	1000.7	763.2	517.7	341.6	237.5	189.5	170.8	165.5
35°	1894.7	1726.6	1321.0	960.7	640.5	384.3	210.8	141.4	114.8	101.4	98.7
37.5°	2097.5	1905.4	1398.4	918.0	517.7	234.8	128.1	85.4	80.1	77.4	77.4
40°	2198.9	1998.8	1462.4	856.6	362.9	133.4	82.7	74.7	72.1	69.4	69.4
42.5°	2343.0	2105.5	1515.8	747.2	213.5	88.1	74.7	69.4	66.7	64.0	64.0
45°	2423.1	2161.6	1502.4	613.8	106.7	82.7	72.1	66.7	61.4	61.4	61.4
47.5°	2529.8	2244.3	1467.7	453.7	96.1	80.1	69.4	64.0	61.4	64.0	61.4
50°	2631.3	2324.4	1371.7	360.3	93.4	77.4	69.4	61.4	61.4	61.4	61.4
52.5°	2687.3	2399.1	1251.6	264.2	96.1	77.4	66.7	61.4	61.4	58.7	61.4
55°	2740.7	2409.8	1155.5	192.1	96.1	74.7	64.0	58.7	56.0	53.4	53.4
57.5°	2778.0	2385.7	1078.1	160.1	96.1	74.7	61.4	56.0	48.0	45.4	45.4
60°	2767.4	2327.0	1014.1	146.8	90.7	69.4	56.0	48.0	42.7	37.4	37.4
62.5°	2738.0	2292.3	896.7	128.1	82.7	64.0	50.7	40.0	34.7	32.0	32.0
65°	2711.3	2182.9	760.6	114.8	77.4	56.0	42.7	34.7	29.4	26.7	26.7
67.5°	2583.2	2038.8	565.7	98.7	69.4	50.7	37.4	32.0	26.7	24.0	21.3
70°	2393.7	1806.7	370.9	85.4	61.4	42.7	32.0	26.7	21.3	18.7	18.7
72.5°	2070.8	1491.8	192.1	69.4	50.7	37.4	29.4	24.0	18.7	16.0	16.0
75°	1681.2	1096.8	114.8	53.4	40.0	32.0	24.0	18.7	16.0	13.3	13.3
77.5°	1163.5	605.8	82.7	40.0	26.7	24.0	18.7	16.0	13.3	10.7	10.7
80°	392.3	165.5	58.7	29.4	18.7	18.7	13.3	10.7	10.7	8.0	8.0
82.5°	154.8	101.4	40.0	21.3	16.0	13.3	10.7	8.0	8.0	8.0	8.0
85°	42.7	29.4	16.0	10.7	8.0	8.0	8.0	5.3	5.3	5.3	5.3
87.5°	2.7	5.3	5.3	5.3	5.3	5.3	2.7	2.7	2.7	2.7	2.7
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)