

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: P691517

Luminaire Tested: **CRTK2-C016-D-U-T3-7040-U0-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691517
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-C016-D-U-T3-7040-U0-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K 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: 5343 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Circular (Dia: 0.33' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

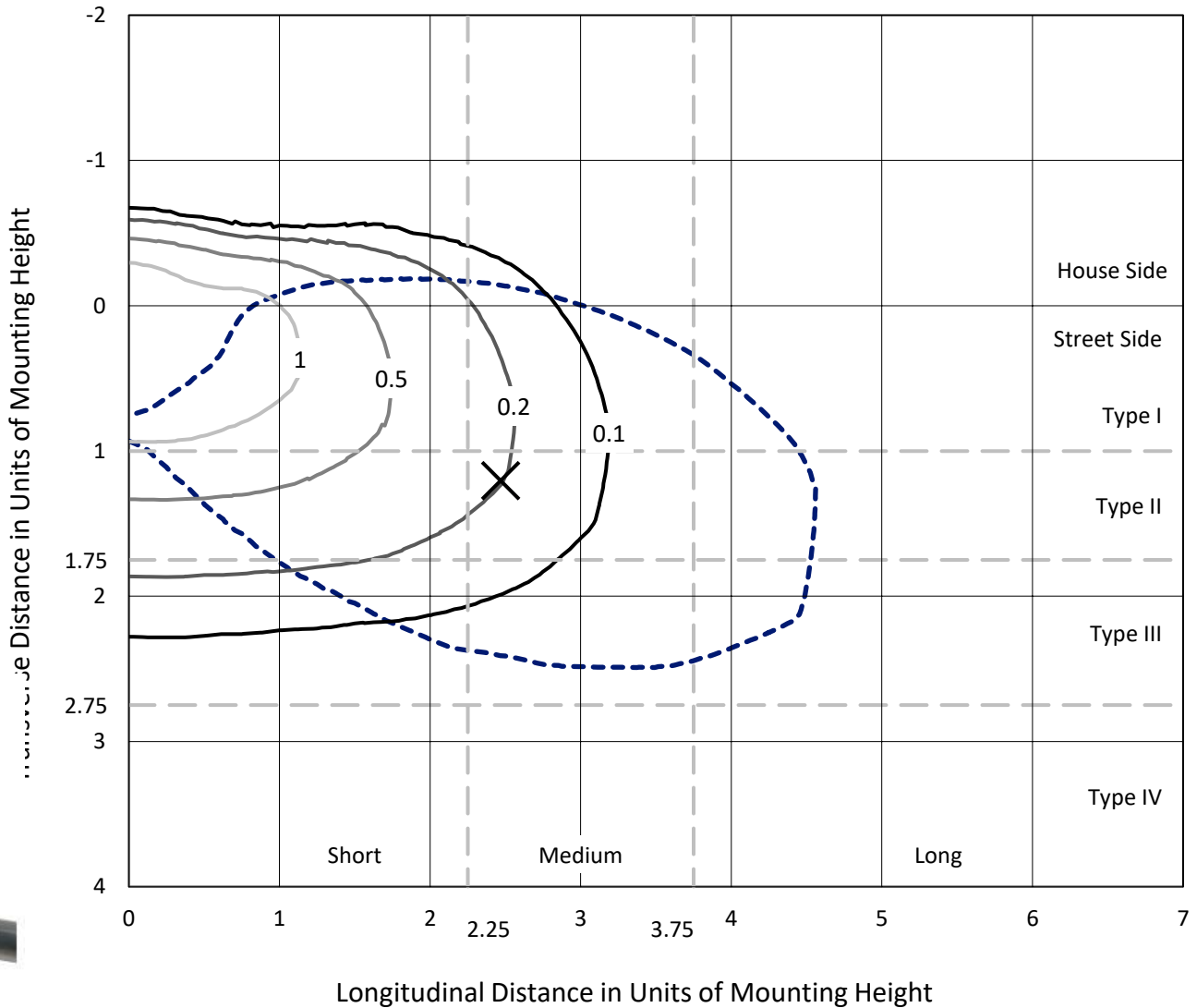
Input Watts (W): 41.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P691517
 CATALOG NUMBER: CRTK2-C016-D-U-T3-7040-U0-HSS-CRTK2

Iso-Footcandle Lines of Horizontal Illumination

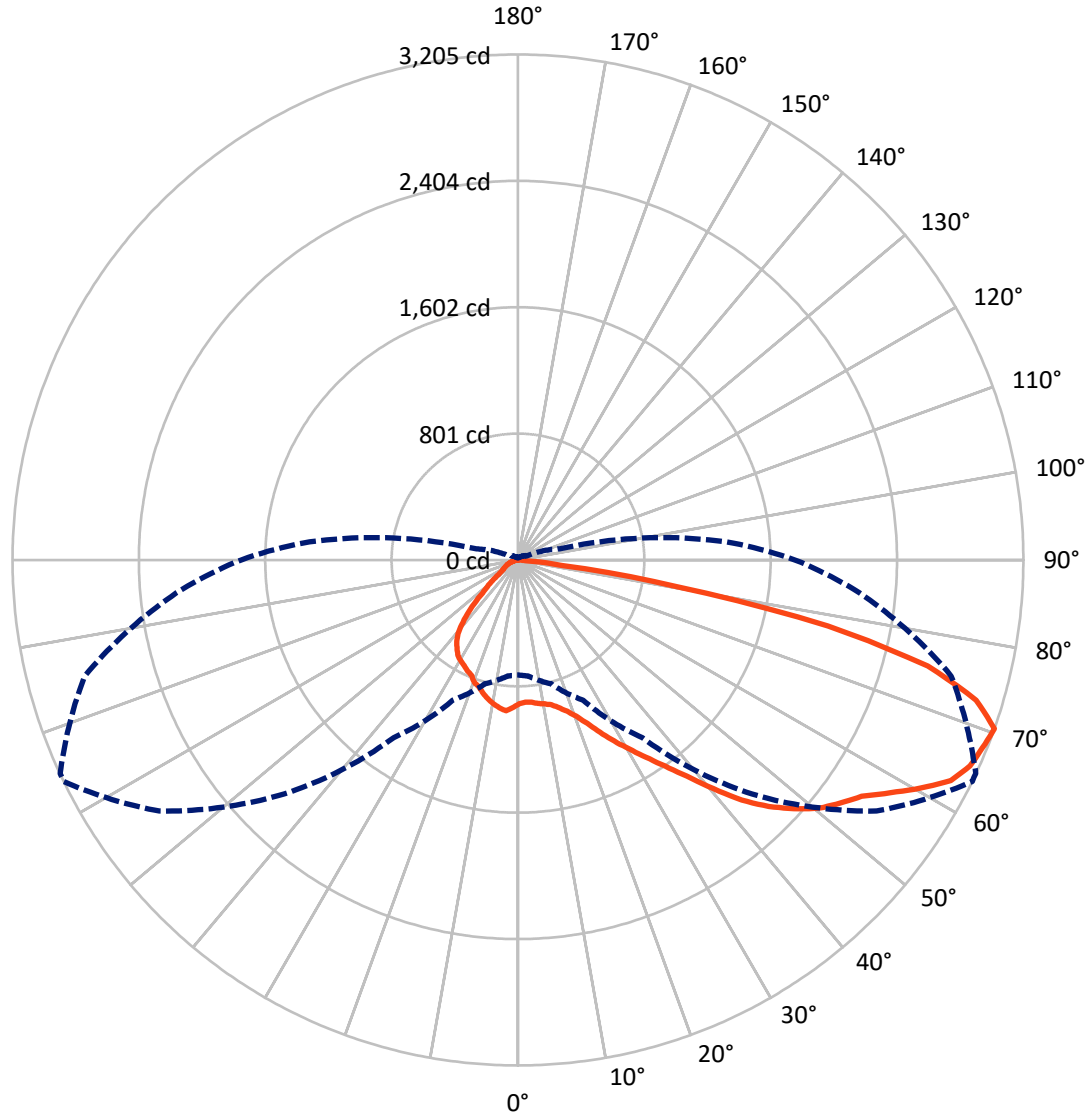
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type III - Medium - N/A

REPORT NUMBER: P691517
CATALOG NUMBER: CRTK2-C016-D-U-T3-7040-U0-HSS-CRTK2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P691517

CATALOG NUMBER: CRTK2-C016-D-U-T3-7040-U0-HSS-CRTK2

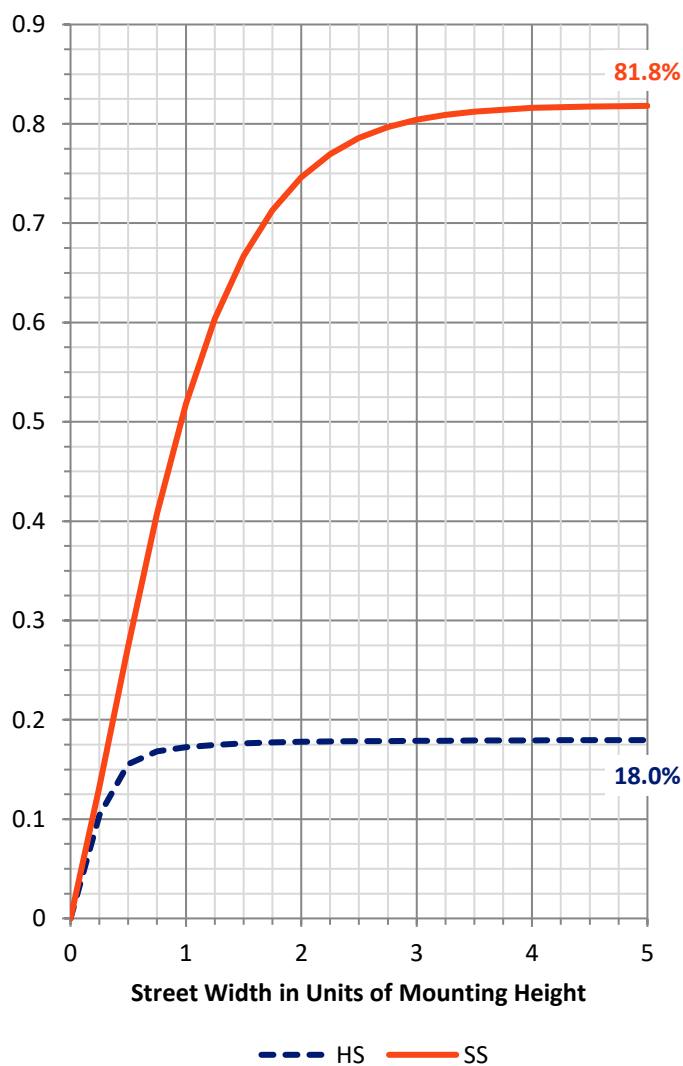
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	971.1	0.0	971.1
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	4371.9	0.0	4371.9
	% Fixture	81.8	0.0	81.8
Total	Lumens	5343.0	0.0	5343.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.9	1.7
10°-20°	263.0	4.9
20°-30°	443.2	8.3
30°-40°	652.2	12.2
40°-50°	894.4	16.7
50°-60°	1088.2	20.4
60°-70°	1155.4	21.6
70°-80°	708.3	13.3
80°-90°	49.4	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°	5343.0	100.0
0°-180°	5343.0	100.0

Coefficient of Utilization



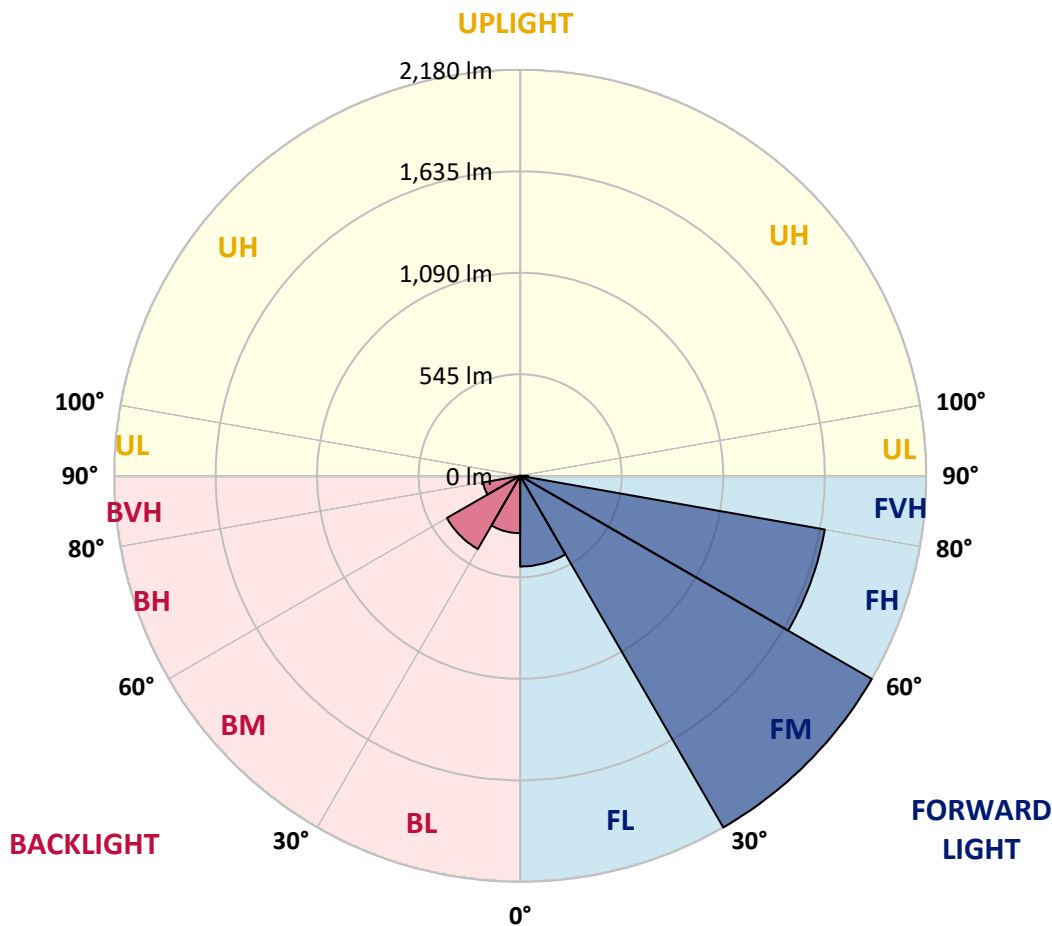
REPORT NUMBER: P691517

CATALOG NUMBER: CRTK2-C016-D-U-T3-7040-U0-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	487.0	9.1			
FM (30°-60°)	2180.3	40.8			
FH (60°-80°)	1661.5	31.1			G1/1800
FVH (80°-90°)	43.1	0.8			G1/100
BL (0°-30°)	308.1	5.8	B1/500		
BM (30°-60°)	454.5	8.5	B1/1000		
BH (60°-80°)	202.2	3.8	B1/500		G1/500
BVH (80°-90°)	6.3	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-G1
 Type III Medium





REPORT NUMBER: P691517

CATALOG NUMBER: CRTK2-C016-D-U-T3-7040-U0-HSS-CRTK2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	912.3	912.3	912.3	912.3	912.3	912.3	912.3	912.3	912.3	912.3	912.3
2.5°	902.5	902.5	904.5	902.5	906.4	900.6	902.5	902.5	902.5	904.5	910.4
5°	929.9	929.9	926.0	920.1	914.3	906.4	906.4	906.4	906.4	910.4	924.1
7.5°	947.6	945.6	945.6	945.6	939.7	924.1	920.1	918.2	918.2	918.2	931.9
10°	990.6	984.8	976.9	965.2	959.3	945.6	929.9	928.0	928.0	929.9	947.6
12.5°	1031.7	1025.9	1025.9	1018.0	994.5	978.9	951.5	941.7	941.7	945.6	955.4
15°	1100.3	1094.4	1078.7	1065.0	1043.5	1016.1	988.7	971.1	969.1	976.9	963.2
17.5°	1149.2	1139.4	1141.4	1119.8	1102.2	1063.1	1035.7	1008.2	1008.2	1016.1	988.7
20°	1196.2	1196.2	1198.2	1196.2	1166.8	1135.5	1090.5	1057.2	1059.2	1061.1	1018.0
22.5°	1266.7	1264.7	1264.7	1266.7	1247.1	1211.9	1162.9	1125.7	1123.8	1108.1	1055.2
25°	1348.9	1345.0	1337.2	1345.0	1335.2	1294.1	1247.1	1209.9	1204.0	1182.5	1110.1
27.5°	1417.4	1417.4	1417.4	1421.3	1421.3	1392.0	1339.1	1300.0	1303.9	1274.5	1174.7
30°	1466.4	1466.4	1484.0	1491.8	1497.7	1487.9	1431.1	1390.0	1397.8	1362.6	1254.9
32.5°	1519.2	1517.3	1540.8	1558.4	1566.2	1570.1	1523.1	1489.9	1491.8	1460.5	1346.9
35°	1568.2	1564.3	1595.6	1632.8	1652.4	1648.4	1615.2	1603.4	1607.3	1597.5	1472.2
37.5°	1603.4	1609.3	1650.4	1699.3	1730.7	1738.5	1717.0	1738.5	1760.0	1773.7	1634.7
40°	1642.6	1642.6	1681.7	1734.6	1783.5	1812.9	1828.6	1906.9	1924.5	1934.3	1730.7
42.5°	1603.4	1617.1	1699.3	1775.7	1840.3	1885.3	1949.9	2081.1	2100.7	2040.0	1857.9
45°	1570.1	1581.9	1664.1	1793.3	1887.3	1975.4	2092.9	2229.9	2249.5	2145.7	1930.4
47.5°	1536.8	1550.6	1636.7	1779.6	1930.4	2075.2	2208.4	2357.1	2366.9	2237.7	2026.3
50°	1499.6	1513.4	1603.4	1762.0	1955.8	2182.9	2321.9	2474.6	2476.6	2318.0	2075.2
52.5°	1452.7	1470.3	1560.3	1736.5	1977.3	2255.3	2423.7	2560.8	2549.0	2415.9	2134.0
55°	1393.9	1413.5	1513.4	1703.3	1989.1	2302.3	2490.3	2644.9	2637.1	2529.4	2210.3
57.5°	1327.4	1348.9	1452.7	1652.4	1985.2	2325.8	2558.8	2783.9	2787.9	2623.4	2267.1
60°	1251.0	1270.6	1368.5	1585.8	1934.3	2368.9	2705.6	2936.6	2950.4	2727.2	2290.6
62.5°	1151.2	1168.8	1262.8	1487.9	1869.7	2400.2	2817.2	3081.5	3075.6	2797.6	2298.4
65°	1025.9	1045.4	1133.5	1358.7	1767.9	2380.6	2852.5	3150.0	3150.0	2848.5	2292.5
67.5°	898.6	916.2	990.6	1194.2	1603.4	2282.8	2830.9	3177.5	3195.1	2881.8	2239.7
70°	728.3	738.1	812.5	980.8	1374.4	2098.7	2776.1	3204.9	3202.9	2844.6	2139.8
72.5°	534.5	546.2	606.9	736.1	1063.1	1816.8	2603.8	3038.5	3007.1	2644.9	1946.0
75°	276.0	287.8	334.8	462.0	677.4	1282.3	2220.1	2684.1	2678.2	2341.5	1611.2
77.5°	37.2	37.2	43.1	76.4	156.6	511.0	1454.6	2010.6	1998.9	1785.5	1170.7
80°	25.5	25.5	29.4	35.2	45.0	111.6	512.9	1020.0	1037.6	920.1	524.7
82.5°	19.6	17.6	21.5	25.5	27.4	50.9	156.6	281.9	285.8	256.5	160.5
85°	11.7	11.7	11.7	11.7	9.8	13.7	35.2	47.0	52.9	50.9	41.1
87.5°	5.9	5.9	5.9	3.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P691517

CATALOG NUMBER: CRTK2-C016-D-U-T3-7040-U0-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	912.3	912.3	912.3	912.3	912.3	912.3	912.3	912.3	912.3	912.3	912.3
2.5°	912.3	918.2	926.0	935.8	945.6	953.4	961.3	965.2	969.1	971.1	973.0
5°	928.0	935.8	945.6	959.3	959.3	953.4	949.5	949.5	953.4	959.3	961.3
7.5°	943.6	951.5	947.6	945.6	947.6	939.7	929.9	924.1	920.1	920.1	924.1
10°	949.5	941.7	937.8	928.0	908.4	904.5	896.7	881.0	877.1	881.0	867.3
12.5°	945.6	939.7	920.1	904.5	884.9	851.6	832.1	832.1	822.3	820.3	822.3
15°	955.4	935.8	912.3	879.0	843.8	816.4	785.1	757.7	749.8	751.8	751.8
17.5°	963.2	943.6	896.7	845.8	814.4	765.5	730.2	714.6	700.9	698.9	698.9
20°	980.8	953.4	886.9	832.1	753.7	716.5	677.4	657.8	636.3	606.9	597.1
22.5°	1008.2	971.1	881.0	794.9	726.3	667.6	610.8	552.1	516.9	493.4	499.2
25°	1045.4	1004.3	886.9	781.1	685.2	610.8	536.4	456.2	403.3	387.6	397.4
27.5°	1112.0	1041.5	904.5	761.6	655.9	544.3	432.7	362.2	313.2	297.6	303.5
30°	1172.7	1098.3	906.4	749.8	608.9	465.9	340.7	262.3	223.2	199.7	193.8
32.5°	1282.3	1159.0	955.4	734.2	559.9	379.8	250.6	174.2	139.0	125.3	121.4
35°	1390.0	1266.7	969.1	704.8	469.9	281.9	154.7	103.8	84.2	74.4	72.4
37.5°	1538.8	1397.8	1025.9	673.5	379.8	172.3	94.0	62.6	58.7	56.8	56.8
40°	1613.2	1466.4	1072.9	628.4	266.3	97.9	60.7	54.8	52.9	50.9	50.9
42.5°	1718.9	1544.7	1112.0	548.2	156.6	64.6	54.8	50.9	48.9	47.0	47.0
45°	1777.7	1585.8	1102.2	450.3	78.3	60.7	52.9	48.9	45.0	45.0	45.0
47.5°	1856.0	1646.5	1076.8	332.8	70.5	58.7	50.9	47.0	45.0	47.0	45.0
50°	1930.4	1705.2	1006.3	264.3	68.5	56.8	50.9	45.0	45.0	45.0	45.0
52.5°	1971.5	1760.0	918.2	193.8	70.5	56.8	48.9	45.0	45.0	43.1	45.0
55°	2010.6	1767.9	847.7	141.0	70.5	54.8	47.0	43.1	41.1	39.2	39.2
57.5°	2038.0	1750.2	790.9	117.5	70.5	54.8	45.0	41.1	35.2	33.3	33.3
60°	2030.2	1707.2	744.0	107.7	66.6	50.9	41.1	35.2	31.3	27.4	27.4
62.5°	2008.7	1681.7	657.8	94.0	60.7	47.0	37.2	29.4	25.5	23.5	23.5
65°	1989.1	1601.5	558.0	84.2	56.8	41.1	31.3	25.5	21.5	19.6	19.6
67.5°	1895.1	1495.7	415.0	72.4	50.9	37.2	27.4	23.5	19.6	17.6	15.7
70°	1756.1	1325.4	272.1	62.6	45.0	31.3	23.5	19.6	15.7	13.7	13.7
72.5°	1519.2	1094.4	141.0	50.9	37.2	27.4	21.5	17.6	13.7	11.7	11.7
75°	1233.4	804.6	84.2	39.2	29.4	23.5	17.6	13.7	11.7	9.8	9.8
77.5°	853.6	444.4	60.7	29.4	19.6	17.6	13.7	11.7	9.8	7.8	7.8
80°	287.8	121.4	43.1	21.5	13.7	13.7	9.8	7.8	7.8	5.9	5.9
82.5°	113.6	74.4	29.4	15.7	11.7	9.8	7.8	5.9	5.9	5.9	5.9
85°	31.3	21.5	11.7	7.8	5.9	5.9	5.9	3.9	3.9	3.9	3.9
87.5°	2.0	3.9	3.9	3.9	3.9	3.9	2.0	2.0	2.0	2.0	2.0
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)