

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: P691425

Luminaire Tested: **CRTK2-C016-5TLD-U-T3-7040-U0-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691425
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-C016-5TLD-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: 5613 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Luminous Opening: Circular (Dia: 0.33' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 42.8
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

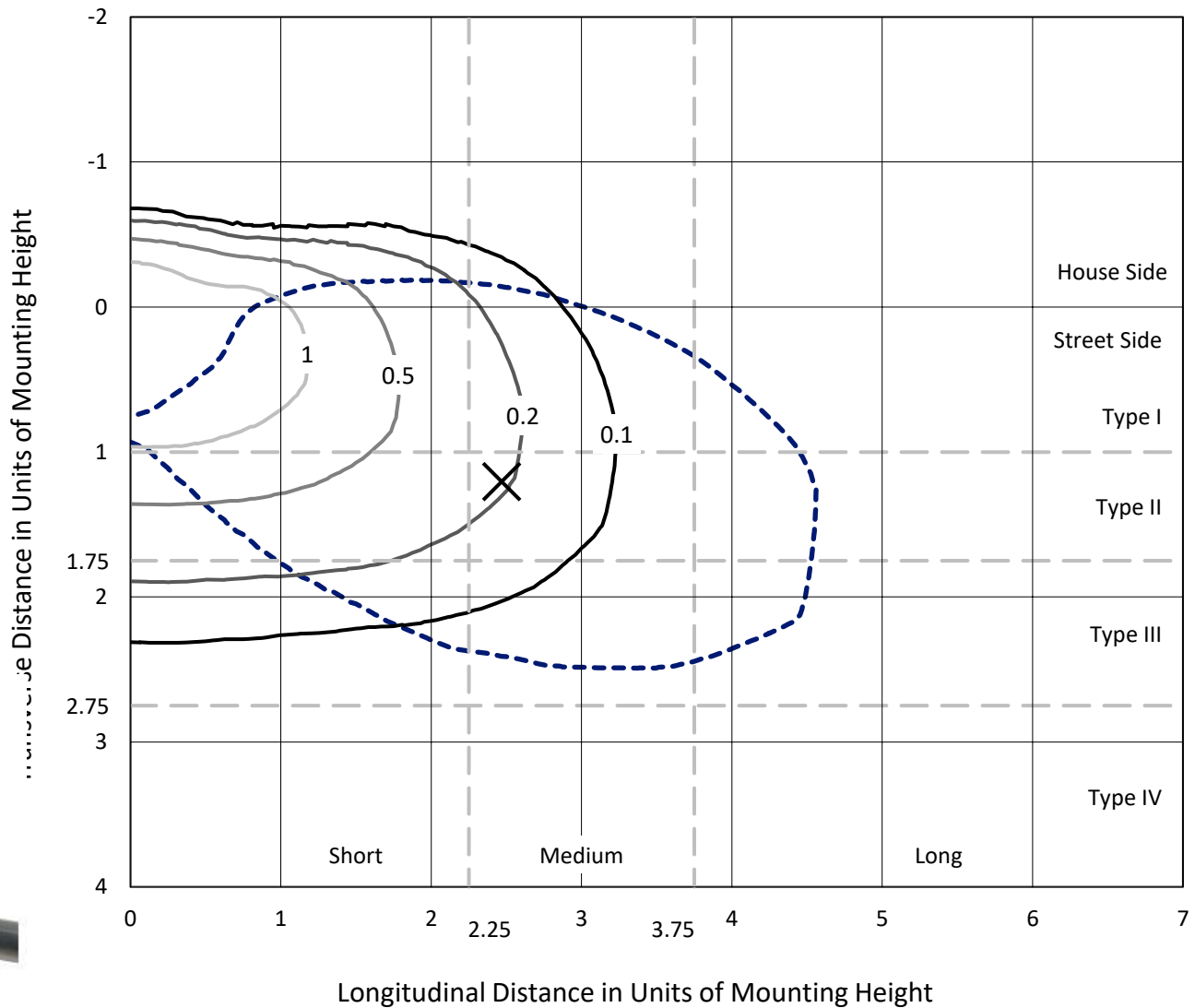


REPORT NUMBER: P691425

CATALOG NUMBER: CRTK2-C016-5TLD-U-T3-7040-U0-HSS-CRTK2

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

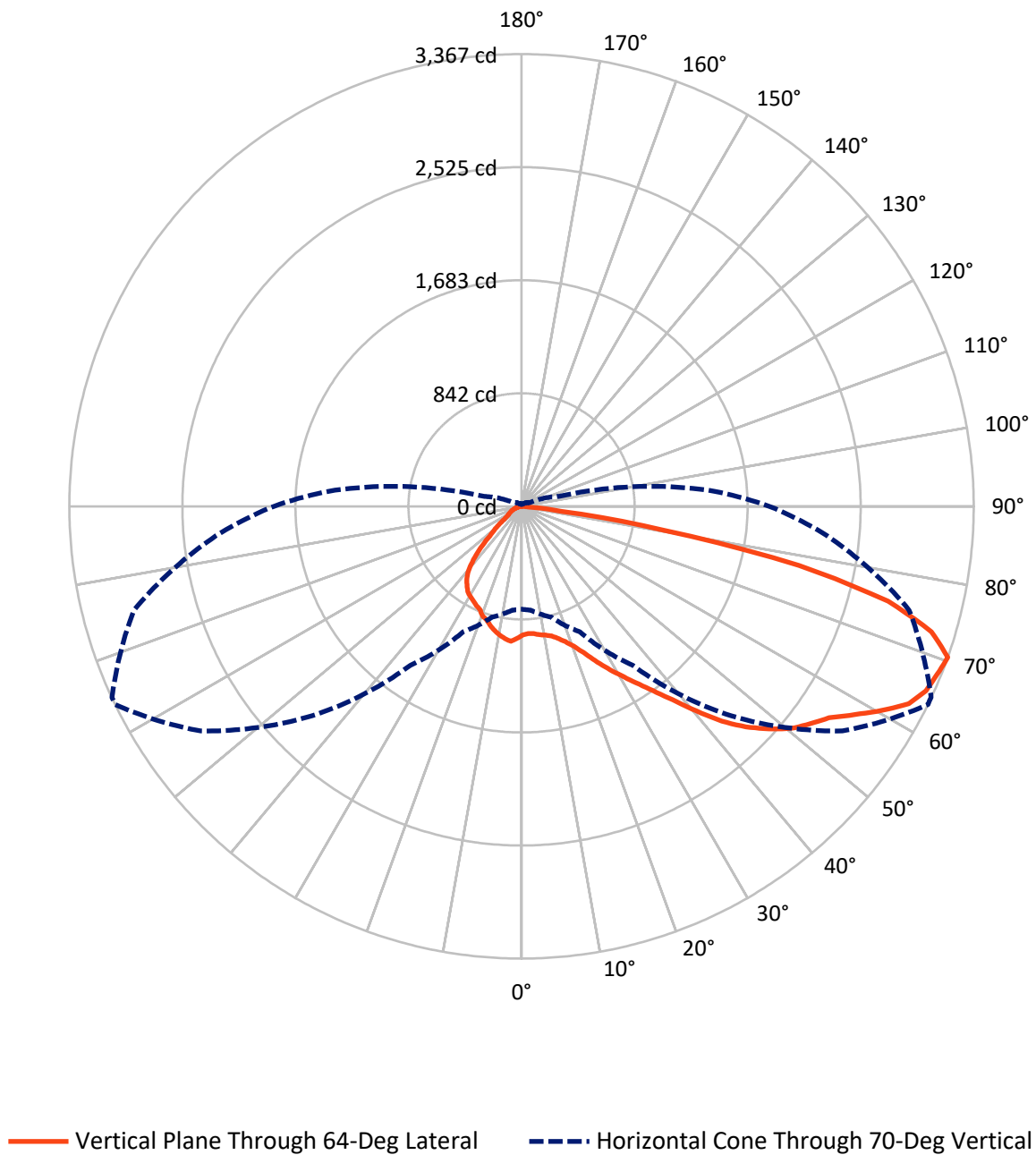


Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type III - Medium - N/A

REPORT NUMBER: P691425

CATALOG NUMBER: CRTK2-C016-5TLD-U-T3-7040-U0-HSS-CRTK2

Luminous Intensity Polar Plot



REPORT NUMBER: P691425

CATALOG NUMBER: CRTK2-C016-5TLD-U-T3-7040-U0-HSS-CRTK2

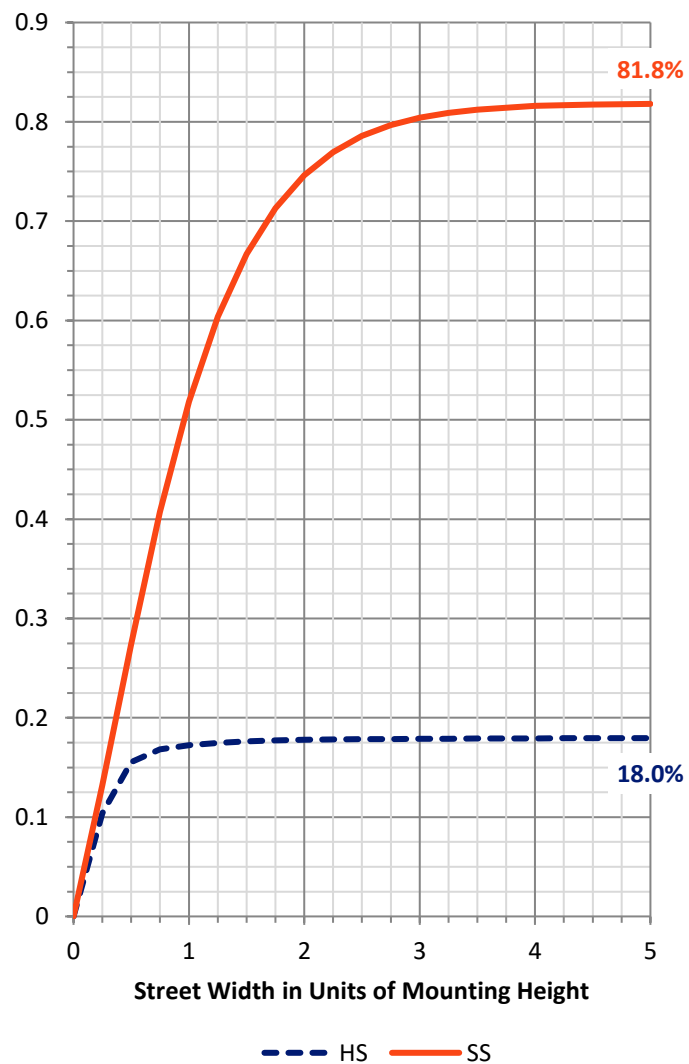
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1020.1	0.0	1020.1
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	4592.9	0.0	4592.9
	% Fixture	81.8	0.0	81.8
Total	Lumens	5613.0	0.0	5613.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.4	1.7
10°-20°	276.3	4.9
20°-30°	465.6	8.3
30°-40°	685.1	12.2
40°-50°	939.6	16.7
50°-60°	1143.2	20.4
60°-70°	1213.8	21.6
70°-80°	744.1	13.3
80°-90°	51.9	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°	5613.0	100.0
0°-180°	5613.0	100.0

Coefficient of Utilization



REPORT NUMBER: P691425

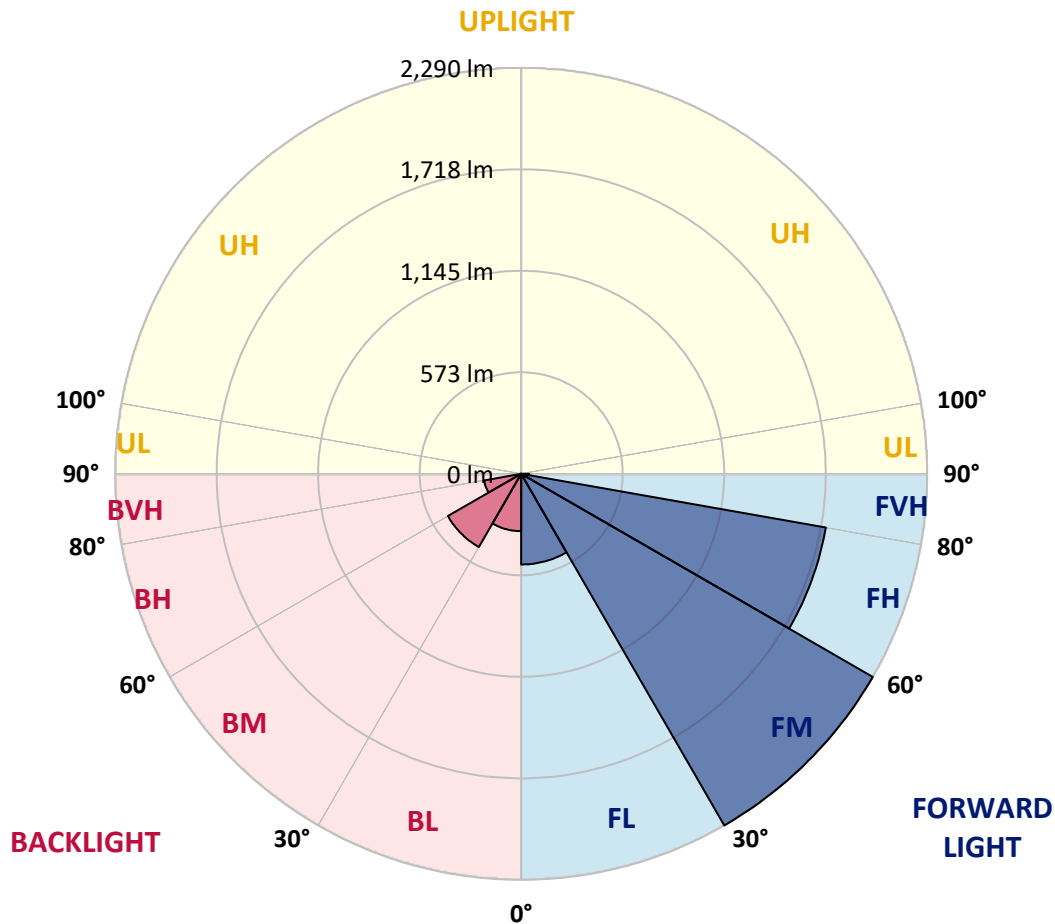
CATALOG NUMBER: CRTK2-C016-5TLD-U-T3-7040-U0-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	511.7	9.1			
FM	(30°-60°)	2290.5	40.8			
FH	(60°-80°)	1745.5	31.1			G1/1800
FVH	(80°-90°)	45.3	0.8			G1/100
BL	(0°-30°)	323.6	5.8	B1/500		
BM	(30°-60°)	477.5	8.5	B1/1000		
BH	(60°-80°)	212.4	3.8	B1/500		G1/500
BVH	(80°-90°)	6.7	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: P691425

CATALOG NUMBER: CRTK2-C016-5TLD-U-T3-7040-U0-HSS-CRTK2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4
2.5°	948.1	948.1	950.2	948.1	952.3	946.1	948.1	948.1	948.1	950.2	956.4
5°	976.9	976.9	972.8	966.6	960.5	952.3	952.3	952.3	952.3	956.4	970.8
7.5°	995.4	993.4	993.4	993.4	987.2	970.8	966.6	964.6	964.6	964.6	979.0
10°	1040.7	1034.5	1026.3	1014.0	1007.8	993.4	976.9	974.9	974.9	976.9	995.4
12.5°	1083.9	1077.7	1077.7	1069.5	1044.8	1028.3	999.6	989.3	989.3	993.4	1003.7
15°	1155.9	1149.7	1133.2	1118.8	1096.2	1067.4	1038.6	1020.1	1018.1	1026.3	1011.9
17.5°	1207.3	1197.0	1199.1	1176.4	1157.9	1116.8	1088.0	1059.2	1059.2	1067.4	1038.6
20°	1256.6	1256.6	1258.7	1256.6	1225.8	1192.9	1145.6	1110.6	1112.7	1114.7	1069.5
22.5°	1330.7	1328.6	1328.6	1330.7	1310.1	1273.1	1221.7	1182.6	1180.5	1164.1	1108.6
25°	1417.1	1413.0	1404.7	1413.0	1402.7	1359.5	1310.1	1271.0	1264.9	1242.2	1166.1
27.5°	1489.0	1489.0	1489.0	1493.2	1493.2	1462.3	1406.8	1365.6	1369.8	1338.9	1234.0
30°	1540.5	1540.5	1559.0	1567.2	1573.4	1563.1	1503.4	1460.3	1468.5	1431.5	1318.3
32.5°	1596.0	1593.9	1618.6	1637.1	1645.4	1649.5	1600.1	1565.1	1567.2	1534.3	1415.0
35°	1647.4	1643.3	1676.2	1715.3	1735.9	1731.7	1696.8	1684.4	1688.5	1678.3	1546.6
37.5°	1684.4	1690.6	1733.8	1785.2	1818.1	1826.3	1803.7	1826.3	1849.0	1863.4	1717.3
40°	1725.6	1725.6	1766.7	1822.2	1873.7	1904.5	1921.0	2003.2	2021.7	2032.0	1818.1
42.5°	1684.4	1698.8	1785.2	1865.4	1933.3	1980.6	2048.5	2186.3	2206.8	2143.1	1951.8
45°	1649.5	1661.8	1748.2	1883.9	1982.7	2075.2	2198.6	2342.6	2363.1	2254.1	2027.9
47.5°	1614.5	1628.9	1719.4	1869.5	2027.9	2180.1	2320.0	2476.3	2486.5	2350.8	2128.7
50°	1575.4	1589.8	1684.4	1851.0	2054.6	2293.2	2439.2	2599.7	2601.7	2435.1	2180.1
52.5°	1526.1	1544.6	1639.2	1824.3	2077.3	2369.3	2546.2	2690.2	2677.8	2538.0	2241.8
55°	1464.4	1484.9	1589.8	1789.3	2089.6	2418.7	2616.1	2778.6	2770.4	2657.3	2322.0
57.5°	1394.4	1417.1	1526.1	1735.9	2085.5	2443.4	2688.1	2924.6	2928.7	2756.0	2381.7
60°	1314.2	1334.8	1437.6	1665.9	2032.0	2488.6	2842.4	3085.0	3099.4	2865.0	2406.3
62.5°	1209.3	1227.8	1326.6	1563.1	1964.1	2521.5	2959.6	3237.2	3231.1	2939.0	2414.6
65°	1077.7	1098.3	1190.8	1427.3	1857.2	2500.9	2996.6	3309.2	3309.2	2992.5	2408.4
67.5°	944.0	962.5	1040.7	1254.6	1684.4	2398.1	2974.0	3338.0	3356.5	3027.5	2352.9
70°	765.1	775.4	853.5	1030.4	1443.8	2204.8	2916.4	3366.8	3364.8	2988.4	2248.0
72.5°	561.5	573.8	637.6	773.3	1116.8	1908.6	2735.4	3192.0	3159.1	2778.6	2044.4
75°	290.0	302.3	351.7	485.4	711.6	1347.1	2332.3	2819.7	2813.6	2459.8	1692.7
77.5°	39.1	39.1	45.2	80.2	164.5	536.8	1528.1	2112.2	2099.9	1875.7	1229.9
80°	26.7	26.7	30.9	37.0	47.3	117.2	538.9	1071.5	1090.1	966.6	551.2
82.5°	20.6	18.5	22.6	26.7	28.8	53.5	164.5	296.2	300.3	269.4	168.6
85°	12.3	12.3	12.3	12.3	10.3	14.4	37.0	49.4	55.5	53.5	43.2
87.5°	6.2	6.2	6.2	4.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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: P691425

CATALOG NUMBER: CRTK2-C016-5TLD-U-T3-7040-U0-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4
2.5°	958.4	964.6	972.8	983.1	993.4	1001.6	1009.8	1014.0	1018.1	1020.1	1022.2
5°	974.9	983.1	993.4	1007.8	1007.8	1001.6	997.5	997.5	1001.6	1007.8	1009.8
7.5°	991.3	999.6	995.4	993.4	995.4	987.2	976.9	970.8	966.6	966.6	970.8
10°	997.5	989.3	985.2	974.9	954.3	950.2	942.0	925.5	921.4	925.5	911.1
12.5°	993.4	987.2	966.6	950.2	929.6	894.7	874.1	874.1	863.8	861.8	863.8
15°	1003.7	983.1	958.4	923.5	886.4	857.6	824.7	795.9	787.7	789.8	789.8
17.5°	1011.9	991.3	942.0	888.5	855.6	804.2	767.1	750.7	736.3	734.2	734.2
20°	1030.4	1001.6	931.7	874.1	791.8	752.8	711.6	691.1	668.4	637.6	627.3
22.5°	1059.2	1020.1	925.5	835.0	763.0	701.3	641.7	580.0	543.0	518.3	524.5
25°	1098.3	1055.1	931.7	820.6	719.8	641.7	563.5	479.2	423.7	407.2	417.5
27.5°	1168.2	1094.2	950.2	800.1	689.0	571.8	454.5	380.5	329.1	312.6	318.8
30°	1232.0	1153.8	952.3	787.7	639.6	489.5	357.9	275.6	234.5	209.8	203.6
32.5°	1347.1	1217.6	1003.7	771.3	588.2	399.0	263.3	183.0	146.0	131.6	127.5
35°	1460.3	1330.7	1018.1	740.4	493.6	296.2	162.5	109.0	88.4	78.2	76.1
37.5°	1616.6	1468.5	1077.7	707.5	399.0	181.0	98.7	65.8	61.7	59.6	59.6
40°	1694.7	1540.5	1127.1	660.2	279.7	102.8	63.8	57.6	55.5	53.5	53.5
42.5°	1805.8	1622.7	1168.2	575.9	164.5	67.9	57.6	53.5	51.4	49.4	49.4
45°	1867.5	1665.9	1157.9	473.0	82.3	63.8	55.5	51.4	47.3	47.3	47.3
47.5°	1949.7	1729.7	1131.2	349.6	74.0	61.7	53.5	49.4	47.3	49.4	47.3
50°	2027.9	1791.4	1057.1	277.7	72.0	59.6	53.5	47.3	47.3	47.3	47.3
52.5°	2071.1	1849.0	964.6	203.6	74.0	59.6	51.4	47.3	47.3	45.2	47.3
55°	2112.2	1857.2	890.6	148.1	74.0	57.6	49.4	45.2	43.2	41.1	41.1
57.5°	2141.0	1838.7	830.9	123.4	74.0	57.6	47.3	43.2	37.0	35.0	35.0
60°	2132.8	1793.4	781.5	113.1	69.9	53.5	43.2	37.0	32.9	28.8	28.8
62.5°	2110.2	1766.7	691.1	98.7	63.8	49.4	39.1	30.9	26.7	24.7	24.7
65°	2089.6	1682.4	586.2	88.4	59.6	43.2	32.9	26.7	22.6	20.6	20.6
67.5°	1990.9	1571.3	436.0	76.1	53.5	39.1	28.8	24.7	20.6	18.5	16.5
70°	1844.9	1392.4	285.9	65.8	47.3	32.9	24.7	20.6	16.5	14.4	14.4
72.5°	1596.0	1149.7	148.1	53.5	39.1	28.8	22.6	18.5	14.4	12.3	12.3
75°	1295.7	845.3	88.4	41.1	30.9	24.7	18.5	14.4	12.3	10.3	10.3
77.5°	896.7	466.9	63.8	30.9	20.6	18.5	14.4	12.3	10.3	8.2	8.2
80°	302.3	127.5	45.2	22.6	14.4	14.4	10.3	8.2	8.2	6.2	6.2
82.5°	119.3	78.2	30.9	16.5	12.3	10.3	8.2	6.2	6.2	6.2	6.2
85°	32.9	22.6	12.3	8.2	6.2	6.2	6.2	4.1	4.1	4.1	4.1
87.5°	2.1	4.1	4.1	4.1	4.1	4.1	2.1	2.1	2.1	2.1	2.1
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)