

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: P690858

Luminaire Tested: **CRTK2-C01-5TLD-U-T2-8027-U0**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P690858
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-3)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C01-5TLD-U-T2-8027-U0
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K LED WITH TYPE II OPTIC AND U0 SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7355 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Circular (Dia: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 60
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

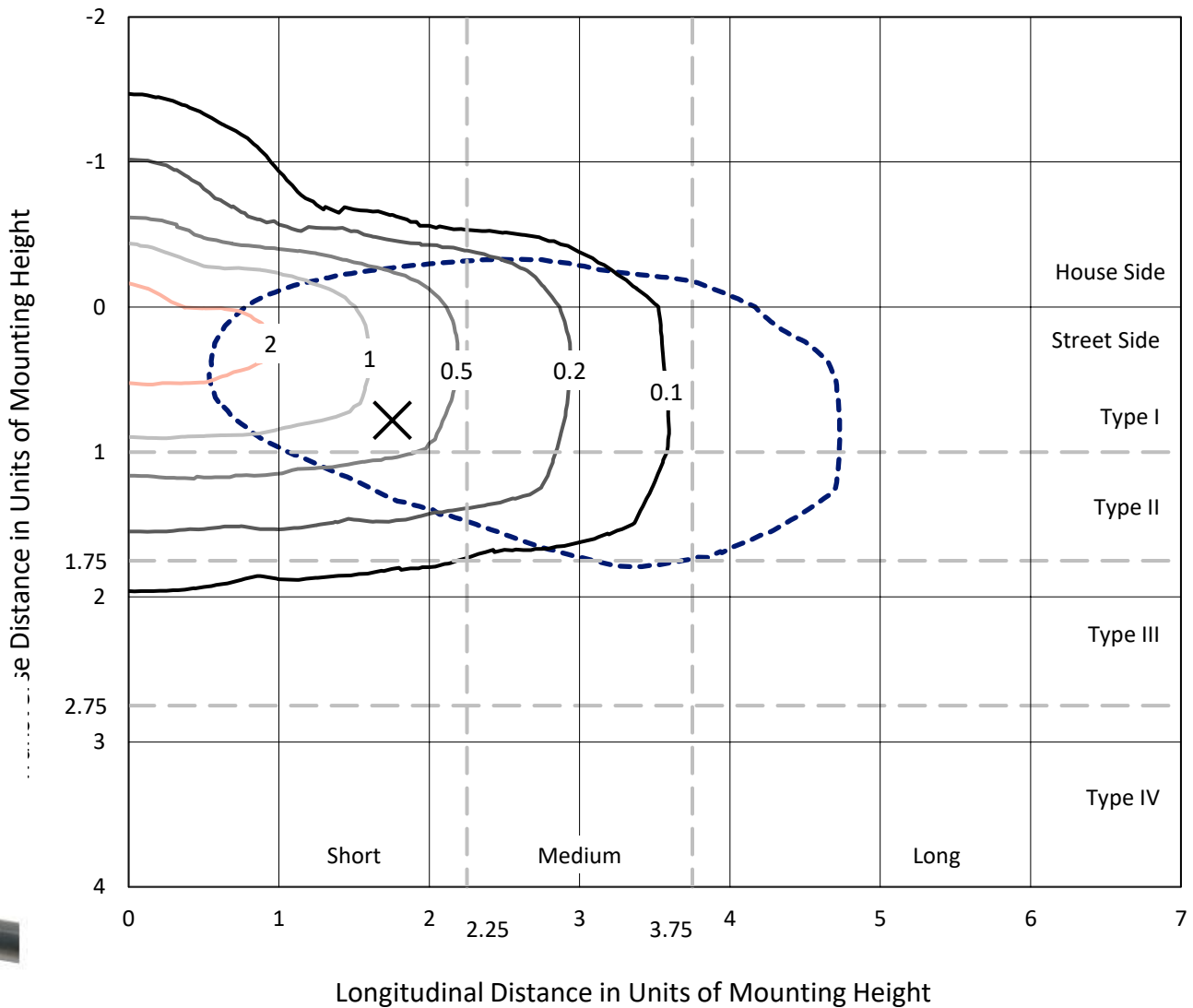


REPORT NUMBER: P690858

CATALOG NUMBER: CRTK2-C01-5TLD-U-T2-8027-U0

Iso-Footcandle Lines of Horizontal Illumination

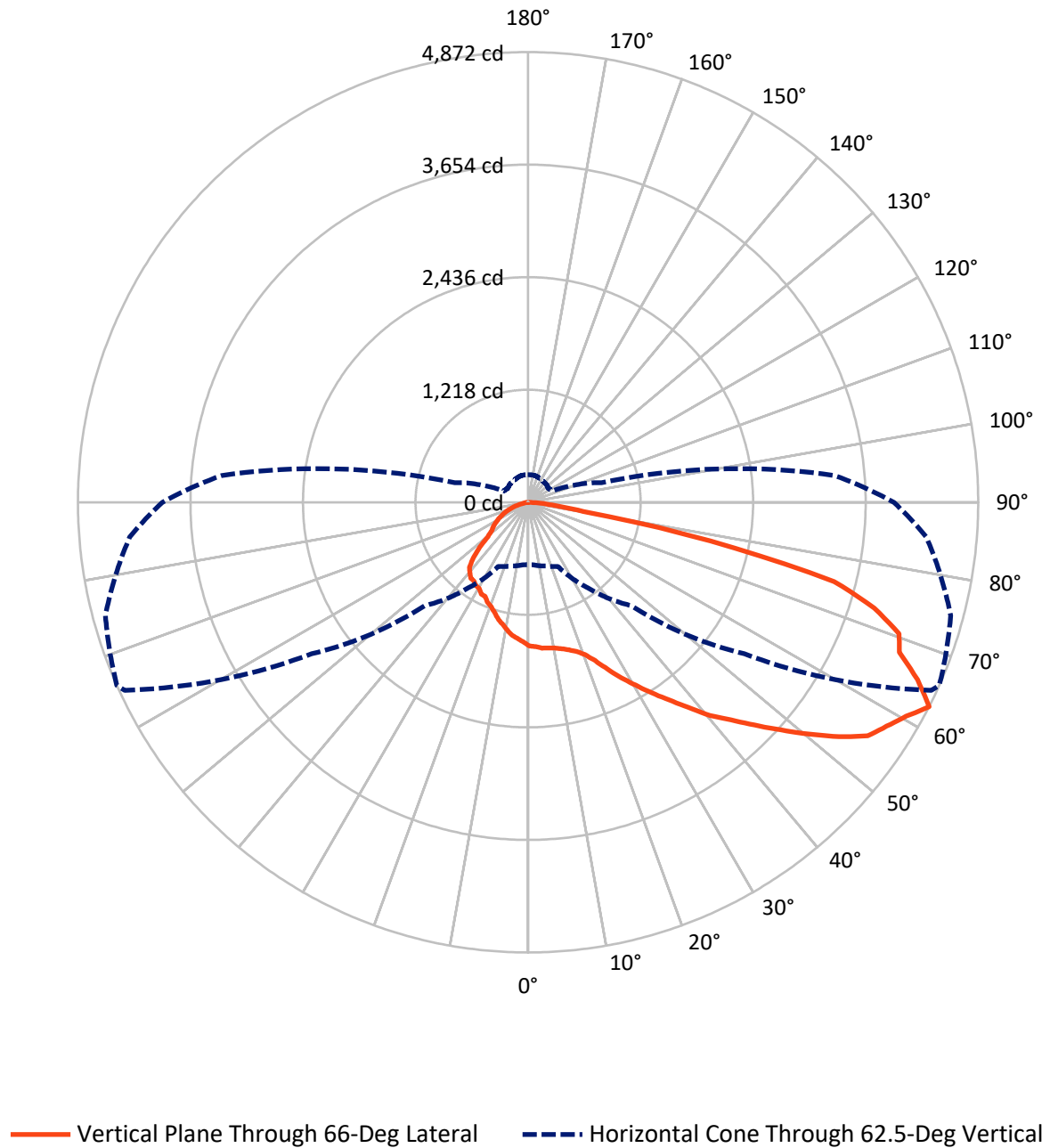
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Short - N/A

REPORT NUMBER: P690858
CATALOG NUMBER: CRTK2-C01-5TLD-U-T2-8027-U0

Luminous Intensity Polar Plot



REPORT NUMBER: P690858

CATALOG NUMBER: CRTK2-C01-5TLD-U-T2-8027-U0

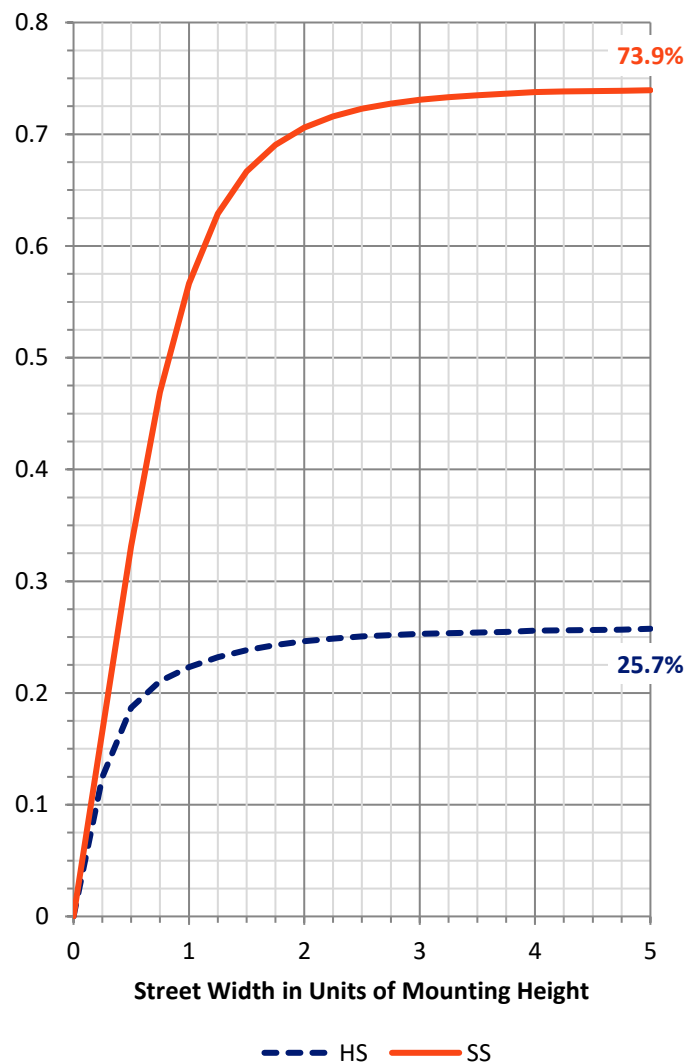
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1921.8	0.0	1921.8
	% Fixture	26.1	0.0	26.1
Street Side	Lumens	5433.2	0.0	5433.2
	% Fixture	73.9	0.0	73.9
Total	Lumens	7355.0	0.0	7355.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.5	2.0
10°-20°	413.0	5.6
20°-30°	670.7	9.1
30°-40°	967.3	13.2
40°-50°	1258.2	17.1
50°-60°	1461.4	19.9
60°-70°	1445.9	19.7
70°-80°	895.6	12.2
80°-90°	97.3	1.3
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°	7355.0	100.0
0°-180°	7355.0	100.0

Coefficient of Utilization



REPORT NUMBER: P690858

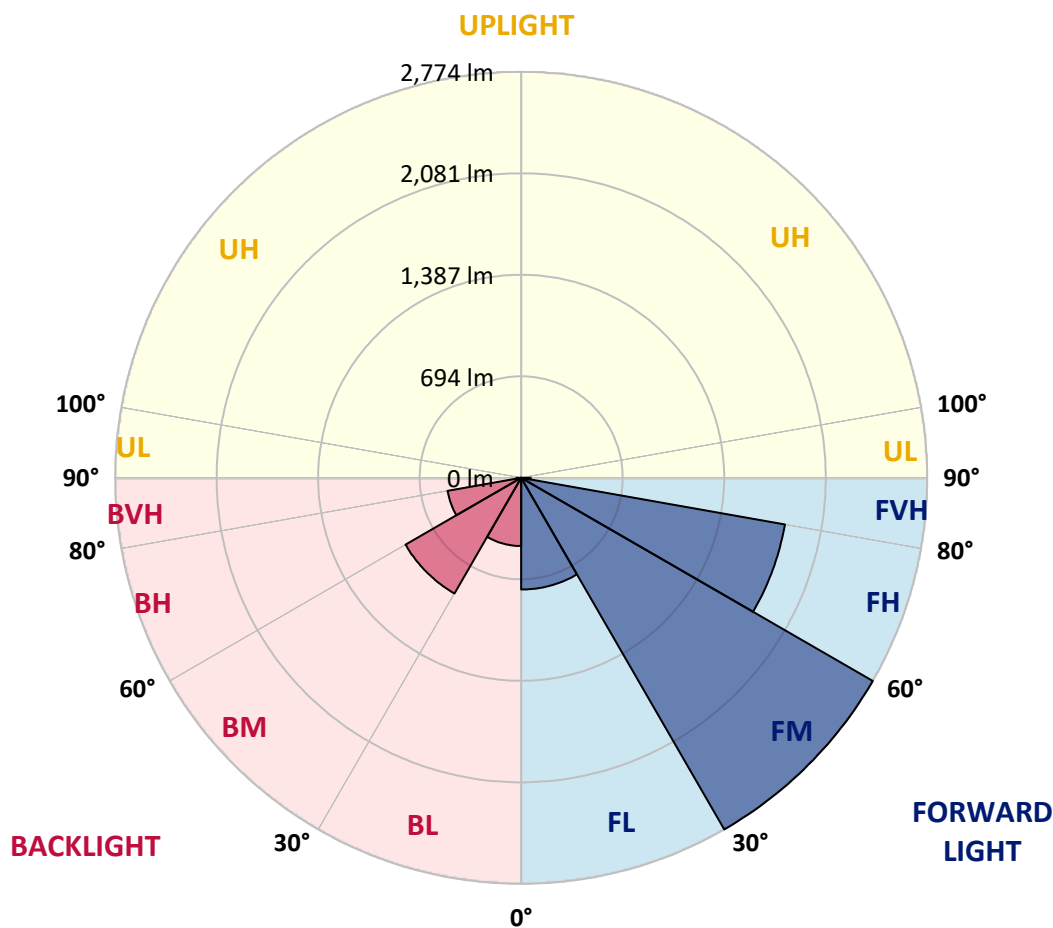
CATALOG NUMBER: CRTK2-C01-5TLD-U-T2-8027-U0

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	763.1	10.4			
FM	(30°-60°)	2774.4	37.7			
FH	(60°-80°)	1830.4	24.9			G2/5000
FVH	(80°-90°)	65.2	0.9			G1/100
BL	(0°-30°)	466.2	6.3	B1/500		
BM	(30°-60°)	912.5	12.4	B1/1000		
BH	(60°-80°)	511.1	6.9	B2/1000		G2/1000
BVH	(80°-90°)	32.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



REPORT NUMBER: P690858

CATALOG NUMBER: CRTK2-C01-5TLD-U-T2-8027-U0

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1555.8	1555.8	1555.8	1555.8	1555.8	1555.8	1555.8	1555.8	1555.8	1555.8	1555.8
2.5°	1611.4	1611.4	1616.5	1598.8	1588.6	1581.1	1573.5	1565.9	1563.4	1555.8	1545.6
5°	1682.2	1682.2	1684.8	1667.1	1646.8	1624.1	1601.3	1586.1	1586.1	1568.4	1543.1
7.5°	1720.2	1720.2	1720.2	1700.0	1687.3	1672.1	1636.7	1593.7	1591.2	1573.5	1538.1
10°	1720.2	1720.2	1730.3	1700.0	1689.8	1674.7	1654.4	1608.9	1603.8	1563.4	1515.3
12.5°	1750.5	1755.6	1750.5	1717.7	1707.5	1694.9	1667.1	1629.1	1626.6	1573.5	1505.2
15°	1793.6	1796.1	1788.5	1765.7	1755.6	1735.4	1702.5	1662.0	1656.9	1593.7	1512.8
17.5°	1803.7	1806.2	1811.3	1783.4	1783.4	1775.8	1758.1	1710.1	1697.4	1641.8	1535.5
20°	1798.6	1801.1	1808.7	1803.7	1806.2	1801.1	1813.8	1773.3	1758.1	1697.4	1570.9
22.5°	1821.4	1826.4	1841.6	1844.1	1854.3	1864.4	1869.4	1872.0	1861.9	1791.0	1644.3
25°	1829.0	1844.1	1864.4	1892.2	1927.6	1947.9	1975.7	2003.5	2001.0	1930.2	1765.7
27.5°	1793.6	1811.3	1874.5	1917.5	1995.9	2051.6	2114.8	2152.8	2152.8	2094.6	1904.9
30°	1826.4	1834.0	1866.9	1927.6	2018.7	2145.2	2243.8	2291.9	2297.0	2259.0	2041.5
32.5°	1758.1	1775.8	1856.8	1973.2	2112.3	2251.4	2350.1	2453.8	2458.9	2446.2	2241.3
35°	1750.5	1760.7	1806.2	1930.2	2109.8	2350.1	2481.6	2613.2	2625.8	2641.0	2436.1
37.5°	1672.1	1692.4	1780.9	1935.2	2180.6	2415.9	2592.9	2795.3	2815.5	2863.6	2603.1
40°	1588.6	1603.8	1677.2	1844.1	2157.8	2499.3	2701.7	3010.3	3035.6	3076.1	2833.3
42.5°	1474.8	1505.2	1631.7	1806.2	2147.7	2524.6	2823.1	3207.7	3217.8	3288.6	3015.4
45°	1368.6	1378.7	1474.8	1674.7	2059.2	2562.6	2914.2	3430.3	3437.9	3483.4	3167.2
47.5°	1282.6	1295.2	1393.9	1563.4	1978.2	2552.5	3005.3	3645.3	3680.7	3731.3	3351.8
50°	1016.9	1044.8	1305.3	1467.2	1839.1	2534.8	3078.6	3903.3	3943.8	3991.9	3549.2
52.5°	877.8	890.5	1022.0	1371.1	1702.5	2458.9	3146.9	4166.4	4214.5	4189.2	3799.6
55°	817.1	824.7	885.4	1181.4	1581.1	2314.7	3197.5	4411.8	4462.4	4341.0	3996.9
57.5°	774.1	784.2	819.6	966.3	1444.5	2061.7	3202.6	4556.0	4573.7	4467.4	4077.9
60°	715.9	723.5	774.1	844.9	1285.1	1796.1	3111.5	4619.2	4702.7	4601.5	4260.0
62.5°	672.9	680.5	713.4	766.5	1130.8	1583.6	2858.6	4816.5	4872.2	4735.6	4328.3
65°	622.3	622.3	655.2	708.3	1032.1	1454.6	2727.0	4753.3	4631.9	4697.6	4411.8
67.5°	548.9	554.0	586.9	629.9	865.2	1330.6	2403.2	4459.9	4333.4	4515.5	4191.7
70°	488.2	483.2	518.6	551.5	708.3	1173.8	1990.9	4156.3	4260.0	4239.8	3989.3
72.5°	407.3	402.2	432.6	468.0	571.7	973.9	1573.5	3857.8	3918.5	3792.0	3539.0
75°	316.2	285.9	328.9	374.4	450.3	771.6	1115.6	3195.0	3422.7	3574.5	3017.9
77.5°	50.6	50.6	63.2	88.5	146.7	392.1	498.3	1755.6	2013.6	3043.2	2646.1
80°	40.5	40.5	45.5	60.7	88.5	215.0	167.0	543.9	607.1	1312.9	1522.9
82.5°	22.8	22.8	32.9	40.5	55.7	65.8	73.4	265.6	296.0	465.5	589.4
85°	12.6	12.6	17.7	20.2	22.8	22.8	22.8	121.4	136.6	247.9	268.1
87.5°	7.6	7.6	7.6	7.6	7.6	5.1	2.5	2.5	2.5	2.5	2.5
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: P690858

CATALOG NUMBER: CRTK2-C01-5TLD-U-T2-8027-U0

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1555.8	1555.8	1555.8	1555.8	1555.8	1555.8	1555.8	1555.8	1555.8	1555.8	1555.8
2.5°	1540.6	1533.0	1520.3	1510.2	1502.6	1495.0	1482.4	1474.8	1474.8	1487.5	1490.0
5°	1527.9	1510.2	1487.5	1477.3	1464.7	1452.0	1431.8	1421.7	1419.2	1426.7	1431.8
7.5°	1517.8	1492.5	1469.8	1444.5	1406.5	1373.6	1355.9	1343.3	1348.3	1361.0	1355.9
10°	1487.5	1464.7	1429.3	1391.3	1345.8	1318.0	1290.1	1275.0	1277.5	1285.1	1277.5
12.5°	1474.8	1444.5	1386.3	1340.7	1300.3	1247.1	1211.7	1189.0	1189.0	1201.6	1201.6
15°	1474.8	1429.3	1350.9	1295.2	1232.0	1178.8	1138.4	1118.1	1130.8	1123.2	1118.1
17.5°	1487.5	1416.6	1328.1	1234.5	1158.6	1105.5	1057.4	1029.6	1037.2	1042.2	1037.2
20°	1502.6	1416.6	1300.3	1186.4	1097.9	1022.0	968.9	938.5	936.0	938.5	943.6
22.5°	1553.2	1449.5	1282.6	1156.1	1022.0	948.6	895.5	842.4	839.9	837.3	842.4
25°	1639.2	1510.2	1295.2	1100.4	979.0	870.2	804.4	758.9	743.7	741.2	746.3
27.5°	1780.9	1616.5	1315.4	1092.8	900.6	801.9	721.0	670.4	655.2	660.3	657.7
30°	1935.2	1753.1	1373.6	1039.7	855.0	700.7	624.8	581.8	566.7	556.5	559.1
32.5°	2049.1	1889.7	1447.0	1022.0	766.5	591.9	536.3	511.0	493.3	480.6	478.1
35°	2228.7	2006.0	1512.8	981.5	688.1	521.1	475.6	447.8	437.6	430.0	430.0
37.5°	2400.7	2147.7	1578.5	968.9	586.9	473.1	417.4	399.7	394.6	389.6	389.6
40°	2572.7	2291.9	1616.5	918.3	505.9	414.9	361.7	359.2	366.8	361.7	364.3
42.5°	2785.2	2441.2	1654.4	870.2	447.8	354.2	323.8	344.0	359.2	361.7	361.7
45°	2931.9	2542.3	1669.6	753.8	387.0	308.6	316.2	339.0	356.7	364.3	361.7
47.5°	3066.0	2678.9	1646.8	612.2	336.4	301.0	313.7	328.9	354.2	364.3	364.3
50°	3197.5	2792.8	1626.6	452.8	318.7	303.6	313.7	321.3	349.1	359.2	359.2
52.5°	3382.2	2883.9	1558.3	379.5	303.6	306.1	321.3	318.7	341.5	356.7	361.7
55°	3637.7	3096.3	1426.7	359.2	301.0	303.6	321.3	321.3	336.4	349.1	356.7
57.5°	3751.5	3187.4	1204.1	339.0	293.4	301.0	313.7	316.2	333.9	341.5	339.0
60°	3880.6	3301.3	986.6	316.2	280.8	296.0	301.0	311.2	323.8	323.8	321.3
62.5°	3959.0	3329.1	822.2	290.9	265.6	278.3	278.3	288.4	298.5	298.5	298.5
65°	3996.9	3301.3	614.7	268.1	247.9	258.0	255.5	260.6	268.1	255.5	255.5
67.5°	3847.7	3197.5	425.0	237.8	227.7	237.8	235.3	237.8	235.3	225.1	227.7
70°	3592.2	2906.6	293.4	202.4	199.8	217.6	220.1	215.0	199.8	192.3	192.3
72.5°	3270.9	2332.4	202.4	161.9	169.5	192.3	197.3	187.2	172.0	164.4	164.4
75°	2967.3	2016.2	144.2	111.3	113.8	146.7	156.8	156.8	151.8	202.4	215.0
77.5°	2064.2	1305.3	83.5	58.2	55.7	83.5	96.1	98.7	189.7	204.9	199.8
80°	1224.4	614.7	60.7	35.4	35.4	48.1	65.8	129.0	217.6	146.7	131.5
82.5°	468.0	235.3	37.9	22.8	20.2	25.3	37.9	199.8	126.5	83.5	75.9
85°	169.5	58.2	17.7	12.6	12.6	15.2	22.8	169.5	88.5	63.2	60.7
87.5°	2.5	2.5	5.1	5.1	5.1	2.5	2.5	5.1	5.1	5.1	2.5
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)