

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: P691409

Luminaire Tested: **CRTK2-C016-5TLD-U-T2-8027-U0-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691409
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-4)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C016-5TLD-U-T2-8027-U0-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K LED WITH TYPE II OPTIC AND U0 SHIELD WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4794 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Circular (Dia: 0.33' x H: 0')
IES Classification: Type II - Short
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

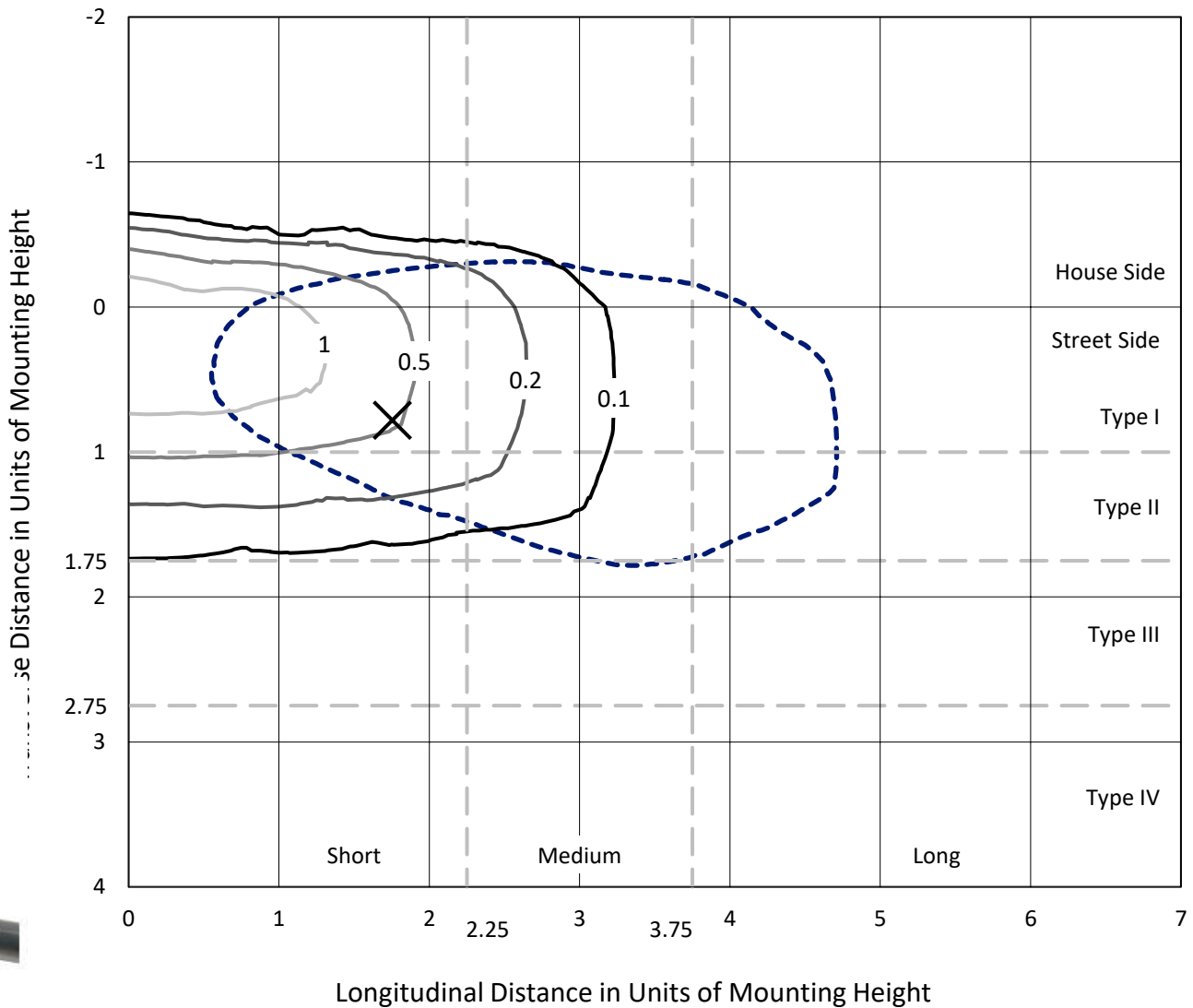


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

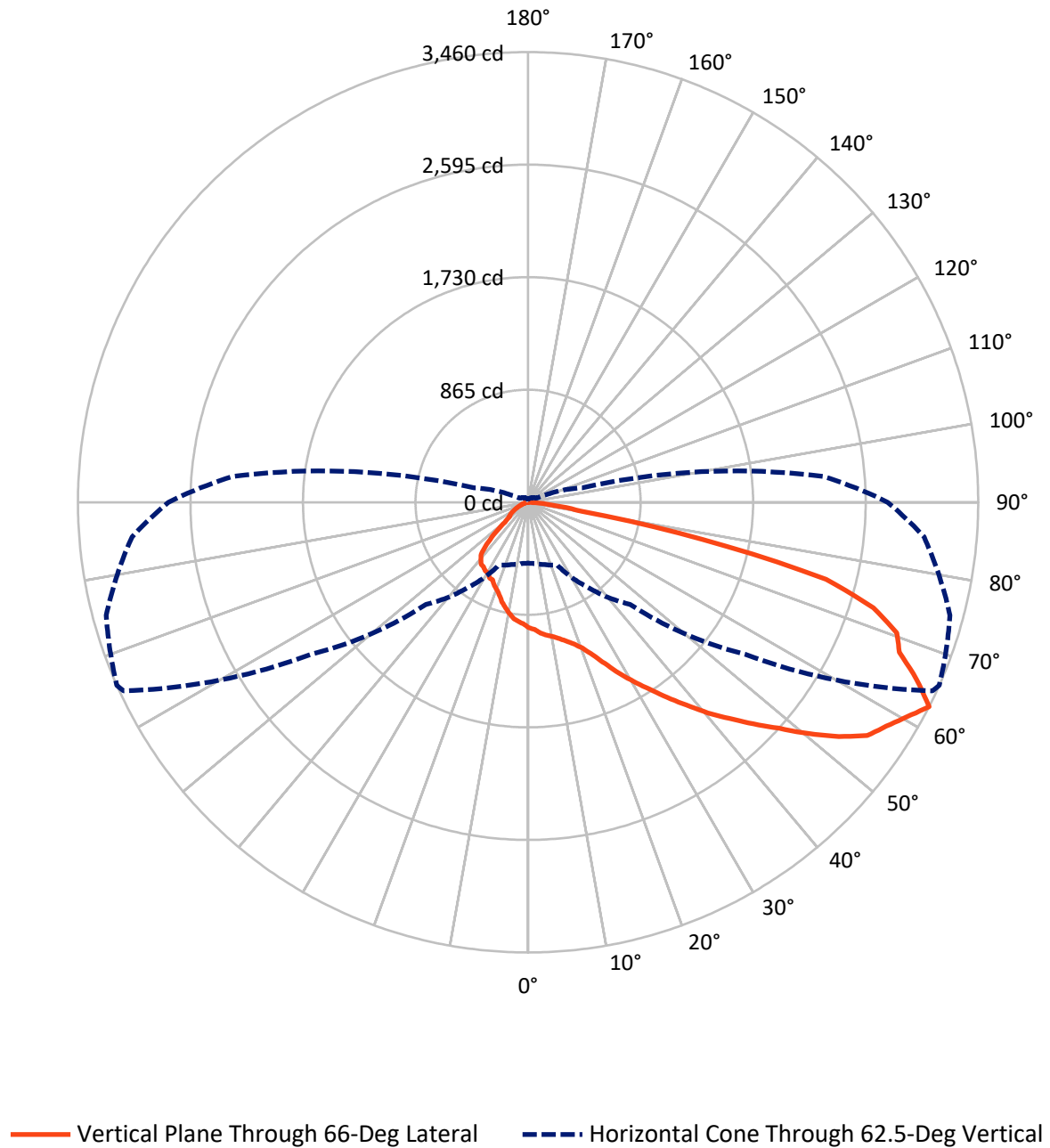


Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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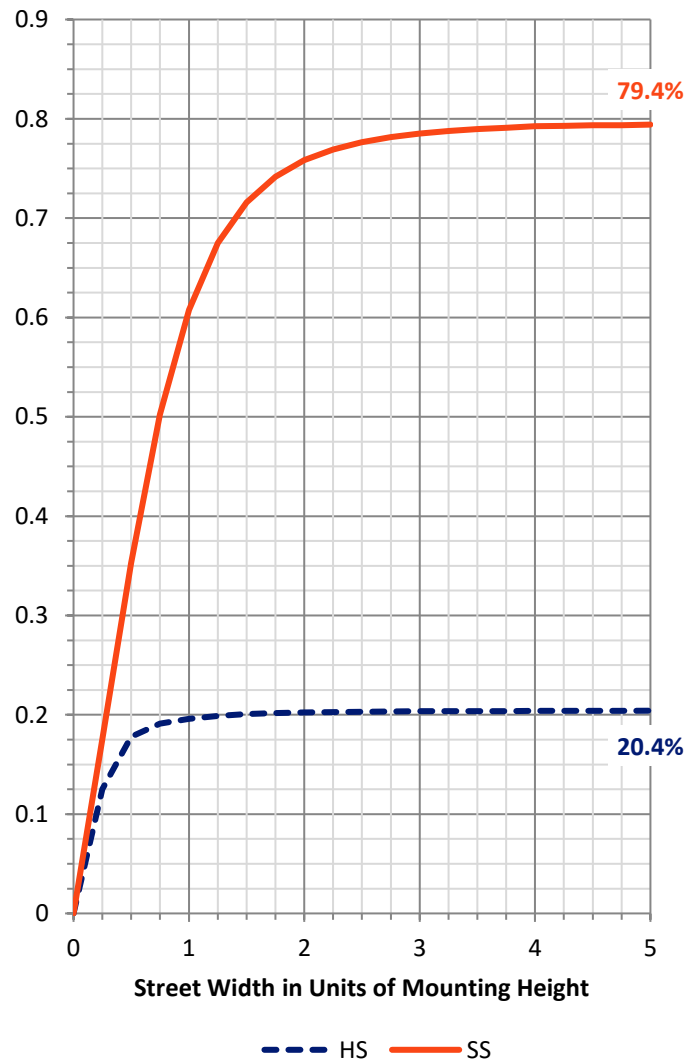
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	990.3	0.0	990.3
	% Fixture	20.7	0.0	20.7
Street Side	Lumens	3803.7	0.0	3803.7
	% Fixture	79.3	0.0	79.3
Total	Lumens	4794.0	0.0	4794.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	1.9
10°-20°	259.5	5.4
20°-30°	425.7	8.9
30°-40°	626.4	13.1
40°-50°	826.2	17.2
50°-60°	961.7	20.1
60°-70°	955.7	19.9
70°-80°	591.2	12.3
80°-90°	56.5	1.2
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°	4794.0	100.0
0°-180°	4794.0	100.0

Coefficient of Utilization



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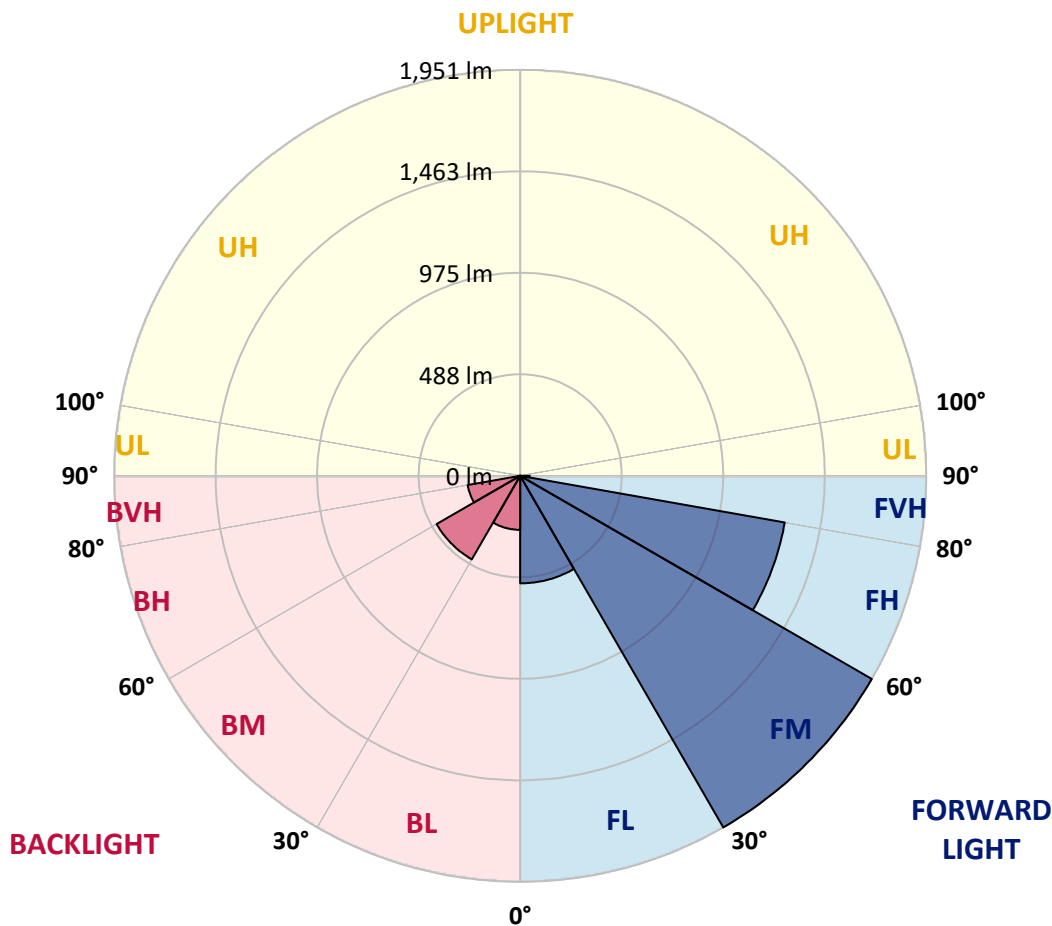
CATALOG NUMBER: CRTK2-C016-5TLD-U-T2-8027-U0-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	516.6	10.8			
FM	(30°-60°)	1950.6	40.7			
FH	(60°-80°)	1290.8	26.9			G1/1800
FVH	(80°-90°)	45.7	1.0			G1/100
BL	(0°-30°)	259.7	5.4	B1/500		
BM	(30°-60°)	463.7	9.7	B1/1000		
BH	(60°-80°)	256.0	5.3	B1/500		G1/500
BVH	(80°-90°)	10.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	964.7	964.7	964.7	964.7	964.7	964.7	964.7	964.7	964.7	964.7	964.7
2.5°	1018.9	1018.9	1017.1	1004.5	999.0	991.8	986.4	981.0	979.2	973.8	964.7
5°	1078.5	1076.7	1076.7	1065.9	1055.0	1040.6	1026.1	1011.7	1009.9	995.4	975.6
7.5°	1112.9	1112.9	1109.2	1102.0	1094.8	1085.8	1064.1	1033.4	1031.6	1011.7	984.6
10°	1121.9	1123.7	1130.9	1112.9	1107.4	1098.4	1087.6	1055.0	1049.6	1020.7	977.4
12.5°	1154.4	1154.4	1152.6	1136.3	1130.9	1123.7	1105.6	1080.3	1074.9	1038.8	979.2
15°	1194.2	1196.0	1190.5	1176.1	1168.9	1159.8	1136.3	1109.2	1107.4	1060.5	993.6
17.5°	1214.0	1214.0	1217.6	1197.8	1199.6	1196.0	1185.1	1147.2	1145.4	1102.0	1018.9
20°	1221.3	1223.1	1224.9	1224.9	1226.7	1223.1	1233.9	1201.4	1196.0	1147.2	1053.2
22.5°	1253.8	1257.4	1266.4	1261.0	1270.0	1275.5	1279.1	1280.9	1273.6	1223.1	1111.1
25°	1268.2	1277.3	1289.9	1309.8	1324.2	1335.1	1362.2	1374.8	1373.0	1329.7	1206.8
27.5°	1246.5	1257.4	1300.7	1335.1	1385.7	1414.6	1465.1	1481.4	1486.8	1447.1	1309.8
30°	1275.5	1279.1	1298.9	1342.3	1405.5	1492.2	1560.9	1597.0	1597.0	1566.3	1410.9
32.5°	1230.3	1241.1	1298.9	1378.4	1476.0	1569.9	1635.0	1712.6	1712.6	1698.2	1555.5
35°	1224.9	1230.3	1264.6	1353.1	1477.8	1649.4	1736.1	1828.3	1840.9	1842.7	1698.2
37.5°	1174.3	1185.1	1246.5	1360.4	1532.0	1698.2	1819.2	1962.0	1976.4	1996.3	1817.4
40°	1118.3	1121.9	1176.1	1295.3	1519.3	1761.4	1898.7	2111.9	2128.2	2155.3	1976.4
42.5°	1035.2	1049.6	1140.0	1270.0	1513.9	1781.3	1987.3	2252.8	2270.9	2308.8	2108.3
45°	961.1	966.5	1033.4	1177.9	1454.3	1810.2	2055.9	2419.0	2429.9	2453.4	2218.5
47.5°	901.5	905.1	971.9	1096.6	1398.3	1803.0	2122.7	2569.0	2594.3	2630.4	2348.6
50°	722.6	742.5	908.7	1029.8	1300.7	1790.3	2175.1	2756.9	2794.8	2809.3	2498.5
52.5°	616.0	619.7	706.4	962.9	1199.6	1736.1	2225.7	2948.4	2991.7	2952.0	2679.2
55°	570.9	574.5	614.2	829.2	1114.7	1631.4	2263.7	3132.6	3163.3	3065.8	2814.7
57.5°	542.0	549.2	567.3	673.9	1013.5	1456.1	2270.9	3233.8	3246.4	3156.1	2883.3
60°	502.2	502.2	538.4	588.9	903.3	1268.2	2211.3	3284.4	3345.8	3259.1	3009.8
62.5°	467.9	471.5	495.0	532.9	794.9	1109.2	2036.0	3428.9	3459.6	3356.6	3054.9
65°	428.2	431.8	453.5	491.4	722.6	1020.7	1942.1	3371.1	3280.8	3331.4	3111.0
67.5°	383.0	384.8	406.5	440.8	607.0	941.2	1716.3	3150.7	3076.6	3212.1	2955.6
70°	337.8	337.8	355.9	383.0	495.0	825.6	1418.2	2950.2	3006.2	3013.4	2802.0
72.5°	281.8	283.6	301.7	325.2	397.5	690.1	1121.9	2749.6	2774.9	2679.2	2464.2
75°	202.3	209.6	229.4	252.9	314.3	547.4	796.7	2234.8	2366.6	2536.5	2117.3
77.5°	30.7	30.7	37.9	57.8	103.0	274.6	368.5	1233.9	1369.4	2122.7	1849.9
80°	25.3	25.3	27.1	37.9	59.6	153.6	119.2	386.6	415.5	975.6	1042.4
82.5°	12.6	12.6	19.9	27.1	36.1	45.2	50.6	186.1	215.0	332.4	415.5
85°	7.2	7.2	9.0	12.6	14.5	14.5	16.3	88.5	92.1	180.7	187.9
87.5°	1.8	1.8	3.6	3.6	3.6	1.8	1.8	1.8	1.8	1.8	1.8
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°	964.7	964.7	964.7	964.7	964.7	964.7	964.7	964.7	964.7	964.7	964.7
2.5°	961.1	955.7	944.8	935.8	930.4	919.6	910.5	903.3	899.7	908.7	910.5
5°	962.9	950.3	930.4	917.7	903.3	885.2	863.6	850.9	845.5	847.3	852.7
7.5°	966.5	948.5	925.0	897.9	859.9	823.8	798.5	784.1	776.8	785.9	785.9
10°	955.7	935.8	903.3	861.7	813.0	776.8	747.9	722.6	713.6	717.2	719.0
12.5°	955.7	928.6	874.4	823.8	778.6	719.0	675.7	652.2	643.1	645.0	648.6
15°	961.1	925.0	849.1	787.7	720.8	657.6	619.7	590.8	581.7	572.7	576.3
17.5°	979.2	919.6	836.5	738.9	664.8	605.2	552.8	520.3	513.1	513.1	514.9
20°	997.2	926.8	814.8	702.8	614.2	540.2	486.0	462.5	446.2	439.0	446.2
22.5°	1035.2	952.1	800.3	679.3	561.9	491.4	440.8	388.4	359.5	346.9	350.5
25°	1103.8	997.2	811.2	637.7	532.9	446.2	375.8	312.5	272.8	260.1	263.8
27.5°	1210.4	1071.3	823.8	634.1	480.6	401.1	305.3	236.7	206.0	193.3	196.9
30°	1315.2	1172.5	865.4	598.0	460.7	328.8	231.2	182.5	151.8	139.1	142.7
32.5°	1405.5	1270.0	917.7	588.9	408.3	247.5	173.4	135.5	112.0	101.2	103.0
35°	1539.2	1353.1	962.9	561.9	346.9	186.1	126.5	97.6	84.9	81.3	81.3
37.5°	1658.5	1450.7	1006.3	552.8	260.1	139.1	90.3	79.5	77.7	72.3	72.3
40°	1783.1	1553.7	1026.1	520.3	189.7	97.6	74.1	74.1	72.3	66.8	66.8
42.5°	1929.4	1658.5	1044.2	482.4	135.5	74.1	68.7	70.5	68.7	63.2	61.4
45°	2034.2	1723.5	1049.6	386.6	93.9	70.5	65.0	66.8	65.0	61.4	59.6
47.5°	2130.0	1817.4	1026.1	271.0	75.9	66.8	63.2	63.2	63.2	57.8	56.0
50°	2229.3	1895.1	1006.3	146.3	74.1	65.0	59.6	57.8	59.6	56.0	54.2
52.5°	2361.2	1954.7	953.9	99.4	72.3	63.2	57.8	54.2	56.0	52.4	54.2
55°	2536.5	2111.9	858.1	93.9	72.3	61.4	56.0	50.6	50.6	48.8	48.8
57.5°	2615.9	2171.5	704.6	90.3	70.5	61.4	52.4	47.0	43.4	41.6	39.7
60°	2713.5	2258.2	543.8	83.1	65.0	57.8	47.0	41.6	36.1	34.3	34.3
62.5°	2764.1	2278.1	430.0	74.1	59.6	50.6	41.6	34.3	28.9	25.3	25.3
65°	2793.0	2267.3	299.9	66.8	52.4	45.2	36.1	28.9	21.7	19.9	18.1
67.5°	2695.4	2202.2	175.2	57.8	45.2	39.7	30.7	23.5	18.1	16.3	14.5
70°	2500.3	2003.5	110.2	50.6	39.7	34.3	27.1	19.9	14.5	12.6	12.6
72.5°	2290.8	1615.1	75.9	39.7	30.7	27.1	19.9	16.3	12.6	9.0	9.0
75°	2061.3	1401.9	56.0	28.9	21.7	19.9	16.3	12.6	10.8	7.2	7.2
77.5°	1461.5	928.6	45.2	21.7	14.5	12.6	10.8	9.0	7.2	7.2	5.4
80°	863.6	453.5	34.3	14.5	10.8	9.0	7.2	7.2	5.4	5.4	5.4
82.5°	323.4	173.4	23.5	10.8	7.2	7.2	5.4	5.4	3.6	3.6	3.6
85°	117.4	43.4	10.8	5.4	5.4	3.6	3.6	3.6	3.6	3.6	3.6
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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)