

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: P691401

Luminaire Tested: **CRTK2-C016-5TLD-U-T2-7050-U0-HSS-CRTK2**

Issue Date: 6/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P691401  
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-T2-7050-U0-HSS-CRTK2  
Description: CARETAKER AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K LED WITH TYPE II OPTIC AND U0 SHIELD WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

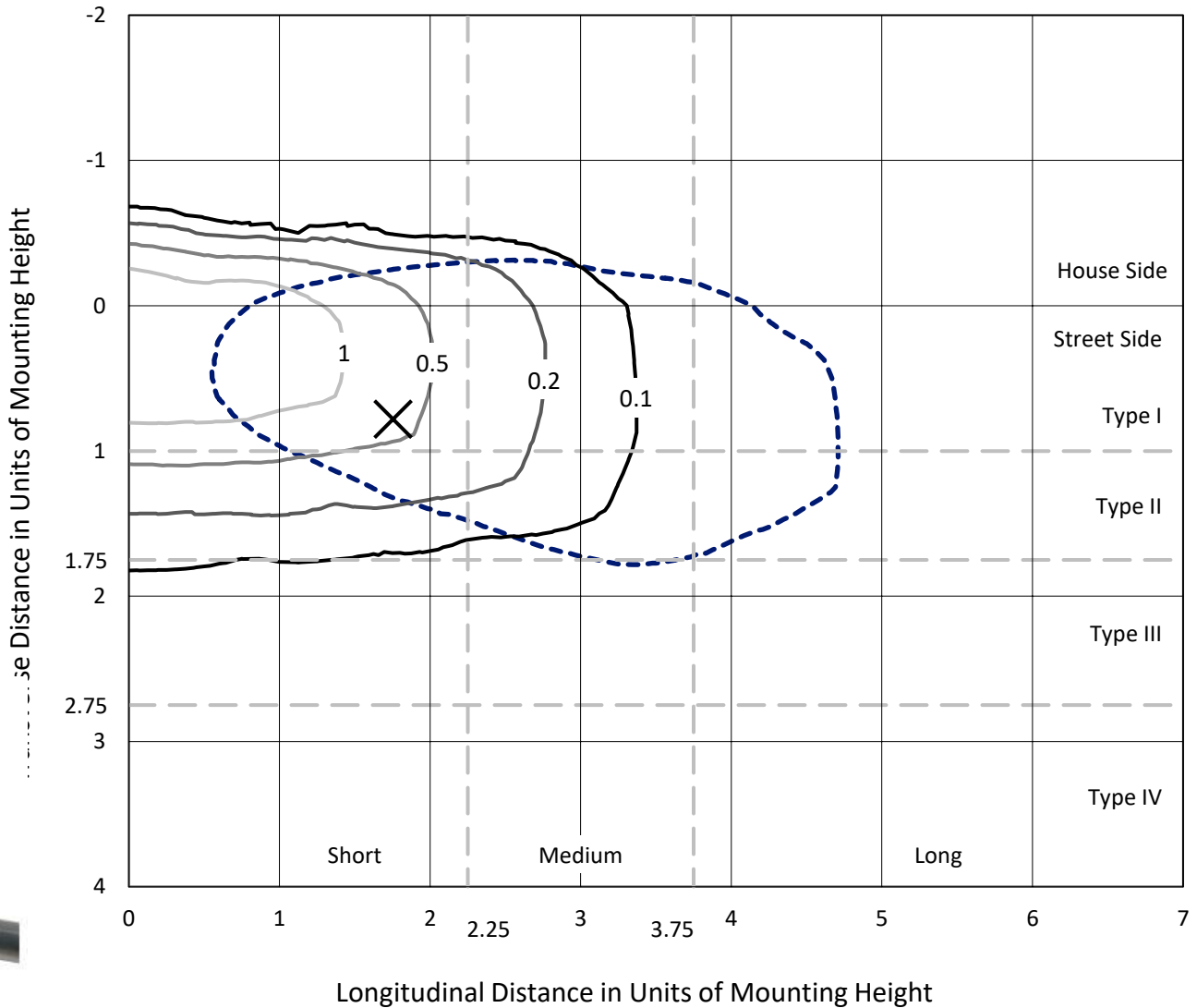
Lumens per Lamp: N/A  
Luminaire Lumens: 5523 lumens  
Efficiency: N/A  
Efficacy: 129.0 lumens/watt  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 42.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

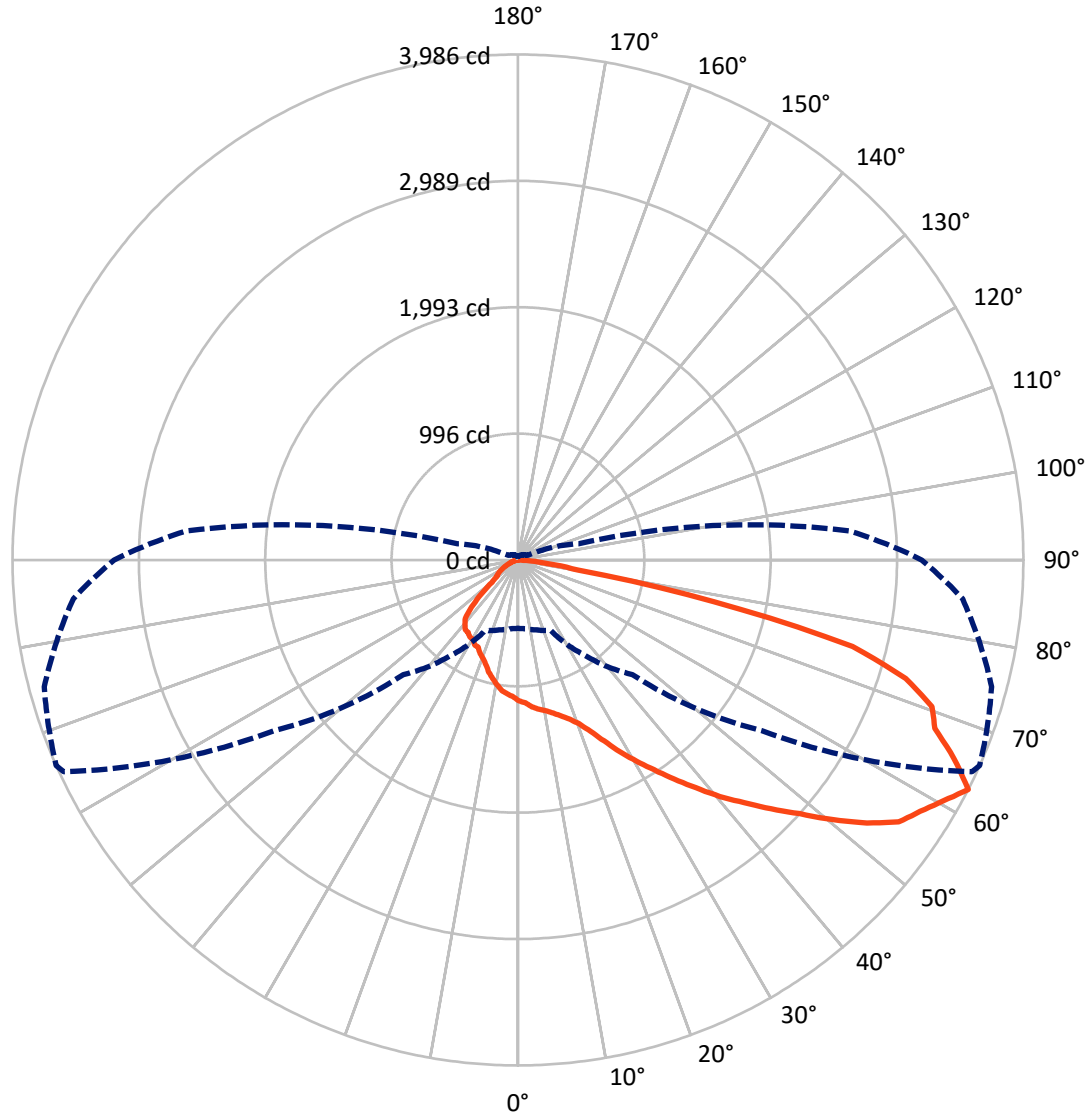
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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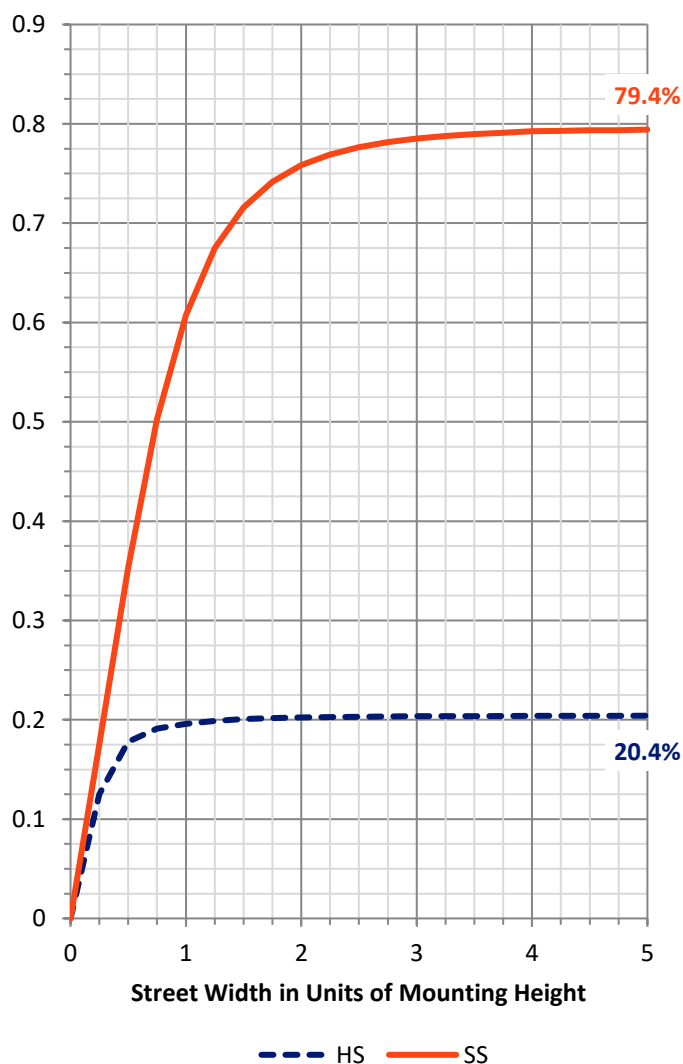
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1140.9	0.0	1140.9
	% Fixture	20.7	0.0	20.7
<b>Street Side</b>	Lumens	4382.1	0.0	4382.1
	% Fixture	79.3	0.0	79.3
<b>Total</b>	Lumens	5523.0	0.0	5523.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.9	1.9
10°-20°	298.9	5.4
20°-30°	490.5	8.9
30°-40°	721.7	13.1
40°-50°	951.8	17.2
50°-60°	1108.0	20.1
60°-70°	1101.0	19.9
70°-80°	681.1	12.3
80°-90°	65.1	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°	5523.0	100.0
0°-180°	5523.0	100.0

**Coefficient of Utilization**

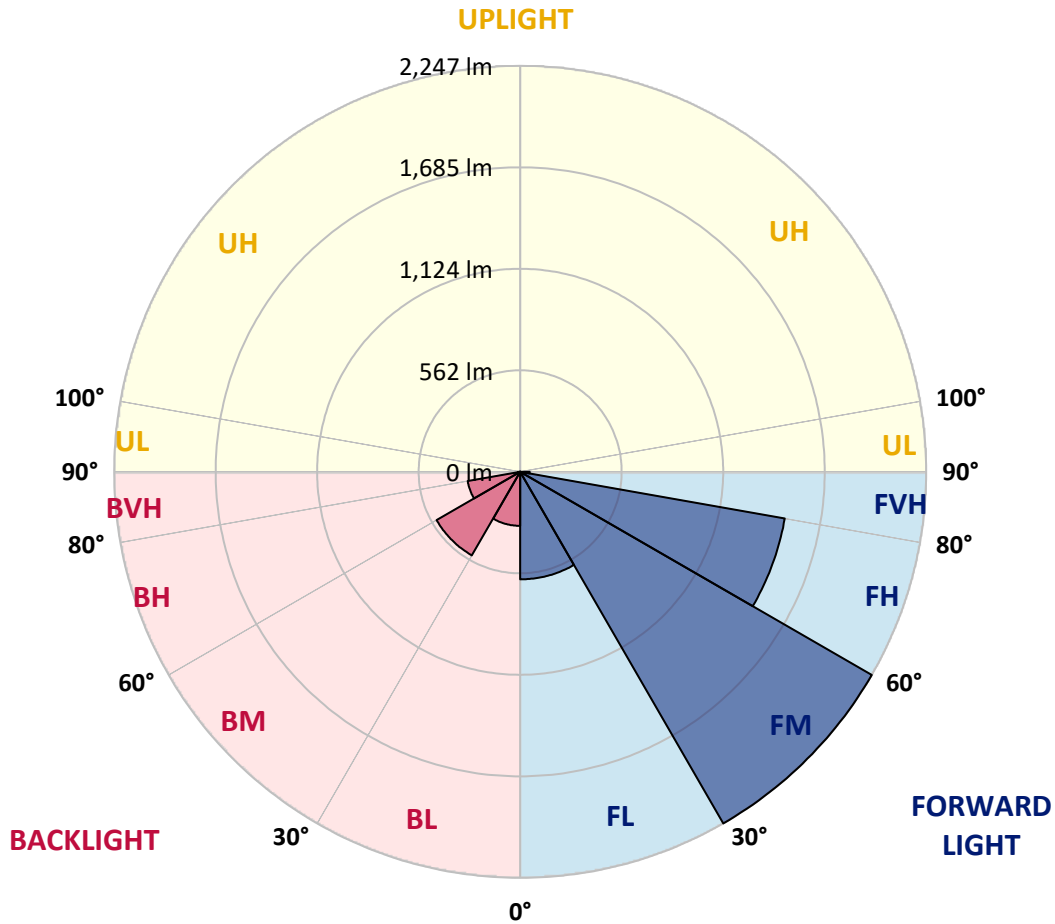


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	595.1	10.8			
FM (30°-60°)	2247.2	40.7			
FH (60°-80°)	1487.1	26.9			G1/1800
FVH (80°-90°)	52.6	1.0			G1/100
BL (0°-30°)	299.2	5.4	B1/500		
BM (30°-60°)	534.2	9.7	B1/1000		
BH (60°-80°)	295.0	5.3	B1/500		G1/500
BVH (80°-90°)	12.5	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°	1111.4	1111.4	1111.4	1111.4	1111.4	1111.4	1111.4	1111.4	1111.4	1111.4	1111.4
2.5°	1173.9	1173.9	1171.8	1157.2	1151.0	1142.6	1136.4	1130.2	1128.1	1121.8	1111.4
5°	1242.5	1240.5	1240.5	1228.0	1215.5	1198.8	1182.2	1165.5	1163.5	1146.8	1123.9
7.5°	1282.1	1282.1	1277.9	1269.6	1261.3	1250.9	1225.9	1190.5	1188.4	1165.5	1134.3
10°	1292.5	1294.6	1302.9	1282.1	1275.8	1265.4	1252.9	1215.5	1209.2	1175.9	1126.0
12.5°	1330.0	1330.0	1327.9	1309.1	1302.9	1294.6	1273.8	1244.6	1238.4	1196.8	1128.1
15°	1375.7	1377.8	1371.6	1354.9	1346.6	1336.2	1309.1	1277.9	1275.8	1221.7	1144.7
17.5°	1398.6	1398.6	1402.8	1379.9	1382.0	1377.8	1365.3	1321.6	1319.6	1269.6	1173.9
20°	1407.0	1409.0	1411.1	1411.1	1413.2	1409.0	1421.5	1384.1	1377.8	1321.6	1213.4
22.5°	1444.4	1448.6	1459.0	1452.8	1463.2	1469.4	1473.6	1475.6	1467.3	1409.0	1280.0
25°	1461.1	1471.5	1486.1	1509.0	1525.6	1538.1	1569.3	1583.9	1581.8	1531.8	1390.3
27.5°	1436.1	1448.6	1498.5	1538.1	1596.4	1629.7	1687.9	1706.7	1712.9	1667.1	1509.0
30°	1469.4	1473.6	1496.5	1546.4	1619.3	1719.2	1798.3	1839.9	1839.9	1804.5	1625.5
32.5°	1417.4	1429.9	1496.5	1588.0	1700.4	1808.7	1883.6	1973.1	1973.1	1956.4	1792.0
35°	1411.1	1417.4	1456.9	1558.9	1702.5	1900.2	2000.1	2106.3	2120.9	2122.9	1956.4
37.5°	1352.9	1365.3	1436.1	1567.2	1765.0	1956.4	2095.9	2260.3	2277.0	2299.8	2093.8
40°	1288.3	1292.5	1354.9	1492.3	1750.4	2029.3	2187.5	2433.1	2451.8	2483.0	2277.0
42.5°	1192.6	1209.2	1313.3	1463.2	1744.1	2052.2	2289.4	2595.4	2616.2	2659.9	2428.9
45°	1107.3	1113.5	1190.5	1357.0	1675.5	2085.5	2368.5	2786.9	2799.4	2826.4	2555.9
47.5°	1038.6	1042.7	1119.7	1263.4	1610.9	2077.1	2445.5	2959.6	2988.8	3030.4	2705.7
50°	832.5	855.4	1046.9	1186.3	1498.5	2062.6	2505.9	3176.1	3219.8	3236.4	2878.5
52.5°	709.7	713.9	813.8	1109.3	1382.0	2000.1	2564.2	3396.7	3446.7	3400.9	3086.6
55°	657.7	661.9	707.6	955.3	1284.2	1879.4	2607.9	3609.0	3644.4	3532.0	3242.7
57.5°	624.4	632.7	653.5	776.3	1167.6	1677.5	2616.2	3725.5	3740.1	3636.1	3321.8
60°	578.6	578.6	620.2	678.5	1040.7	1461.1	2547.5	3783.8	3854.6	3754.7	3467.5
62.5°	539.1	543.2	570.3	614.0	915.8	1277.9	2345.6	3950.3	3985.7	3867.1	3519.5
65°	493.3	497.4	522.4	566.1	832.5	1175.9	2237.4	3883.7	3779.7	3837.9	3584.0
67.5°	441.2	443.3	468.3	507.8	699.3	1084.4	1977.2	3629.8	3544.5	3700.6	3405.0
70°	389.2	389.2	410.0	441.2	570.3	951.2	1633.8	3398.8	3463.3	3471.6	3228.1
72.5°	324.7	326.8	347.6	374.6	457.9	795.1	1292.5	3167.8	3196.9	3086.6	2838.9
75°	233.1	241.4	264.3	291.4	362.1	630.6	917.9	2574.6	2726.5	2922.2	2439.3
77.5°	35.4	35.4	43.7	66.6	118.6	316.4	424.6	1421.5	1577.6	2445.5	2131.3
80°	29.1	29.1	31.2	43.7	68.7	176.9	137.4	445.4	478.7	1123.9	1200.9
82.5°	14.6	14.6	22.9	31.2	41.6	52.0	58.3	214.4	247.7	383.0	478.7
85°	8.3	8.3	10.4	14.6	16.7	16.7	18.7	102.0	106.1	208.1	216.5
87.5°	2.1	2.1	4.2	4.2	4.2	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1111.4	1111.4	1111.4	1111.4	1111.4	1111.4	1111.4	1111.4	1111.4	1111.4	1111.4
2.5°	1107.3	1101.0	1088.5	1078.1	1071.9	1059.4	1049.0	1040.7	1036.5	1046.9	1049.0
5°	1109.3	1094.8	1071.9	1057.3	1040.7	1019.8	994.9	980.3	974.1	976.1	982.4
7.5°	1113.5	1092.7	1065.6	1034.4	990.7	949.1	919.9	903.3	895.0	905.4	905.4
10°	1101.0	1078.1	1040.7	992.8	936.6	895.0	861.7	832.5	822.1	826.3	828.4
12.5°	1101.0	1069.8	1007.4	949.1	897.0	828.4	778.4	751.4	740.9	743.0	747.2
15°	1107.3	1065.6	978.2	907.5	830.4	757.6	713.9	680.6	670.2	659.8	663.9
17.5°	1128.1	1059.4	963.6	851.3	765.9	697.2	636.9	599.4	591.1	591.1	593.2
20°	1148.9	1067.7	938.7	809.6	707.6	622.3	559.9	532.8	514.1	505.8	514.1
22.5°	1192.6	1096.9	922.0	782.6	647.3	566.1	507.8	447.5	414.2	399.6	403.8
25°	1271.7	1148.9	934.5	734.7	614.0	514.1	432.9	360.1	314.3	299.7	303.9
27.5°	1394.5	1234.2	949.1	730.5	553.6	462.1	351.7	272.7	237.3	222.7	226.9
30°	1515.2	1350.8	996.9	688.9	530.7	378.8	266.4	210.2	174.8	160.3	164.4
32.5°	1619.3	1463.2	1057.3	678.5	470.4	285.1	199.8	156.1	129.0	116.6	118.6
35°	1773.3	1558.9	1109.3	647.3	399.6	214.4	145.7	112.4	97.8	93.7	93.7
37.5°	1910.6	1671.3	1159.3	636.9	299.7	160.3	104.1	91.6	89.5	83.3	83.3
40°	2054.3	1789.9	1182.2	599.4	218.5	112.4	85.3	85.3	83.3	77.0	77.0
42.5°	2222.8	1910.6	1203.0	555.7	156.1	85.3	79.1	81.2	79.1	72.8	70.8
45°	2343.6	1985.6	1209.2	445.4	108.2	81.2	74.9	77.0	74.9	70.8	68.7
47.5°	2453.9	2093.8	1182.2	312.2	87.4	77.0	72.8	72.8	72.8	66.6	64.5
50°	2568.3	2183.3	1159.3	168.6	85.3	74.9	68.7	66.6	68.7	64.5	62.4
52.5°	2720.3	2252.0	1098.9	114.5	83.3	72.8	66.6	62.4	64.5	60.4	62.4
55°	2922.2	2433.1	988.6	108.2	83.3	70.8	64.5	58.3	58.3	56.2	56.2
57.5°	3013.7	2501.7	811.7	104.1	81.2	70.8	60.4	54.1	50.0	47.9	45.8
60°	3126.1	2601.6	626.5	95.7	74.9	66.6	54.1	47.9	41.6	39.5	39.5
62.5°	3184.4	2624.5	495.4	85.3	68.7	58.3	47.9	39.5	33.3	29.1	29.1
65°	3217.7	2612.0	345.5	77.0	60.4	52.0	41.6	33.3	25.0	22.9	20.8
67.5°	3105.3	2537.1	201.9	66.6	52.0	45.8	35.4	27.1	20.8	18.7	16.7
70°	2880.5	2308.2	127.0	58.3	45.8	39.5	31.2	22.9	16.7	14.6	14.6
72.5°	2639.1	1860.7	87.4	45.8	35.4	31.2	22.9	18.7	14.6	10.4	10.4
75°	2374.8	1615.1	64.5	33.3	25.0	22.9	18.7	14.6	12.5	8.3	8.3
77.5°	1683.8	1069.8	52.0	25.0	16.7	14.6	12.5	10.4	8.3	8.3	6.2
80°	994.9	522.4	39.5	16.7	12.5	10.4	8.3	8.3	6.2	6.2	6.2
82.5°	372.6	199.8	27.1	12.5	8.3	8.3	6.2	6.2	4.2	4.2	4.2
85°	135.3	50.0	12.5	6.2	6.2	4.2	4.2	4.2	4.2	4.2	4.2
87.5°	2.1	2.1	2.1	2.1	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

(END OF REPORT)