

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: P691709

Luminaire Tested: **CRTK2-C018-D-U-T3-7050-U0-HSS-CRTK2**

Issue Date: 6/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P691709  
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-C018-D-U-T3-7050-U0-HSS-CRTK2  
Description: CARETAKER AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K LED WITH TYPE III OPTIC AND U0 SHIELD WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

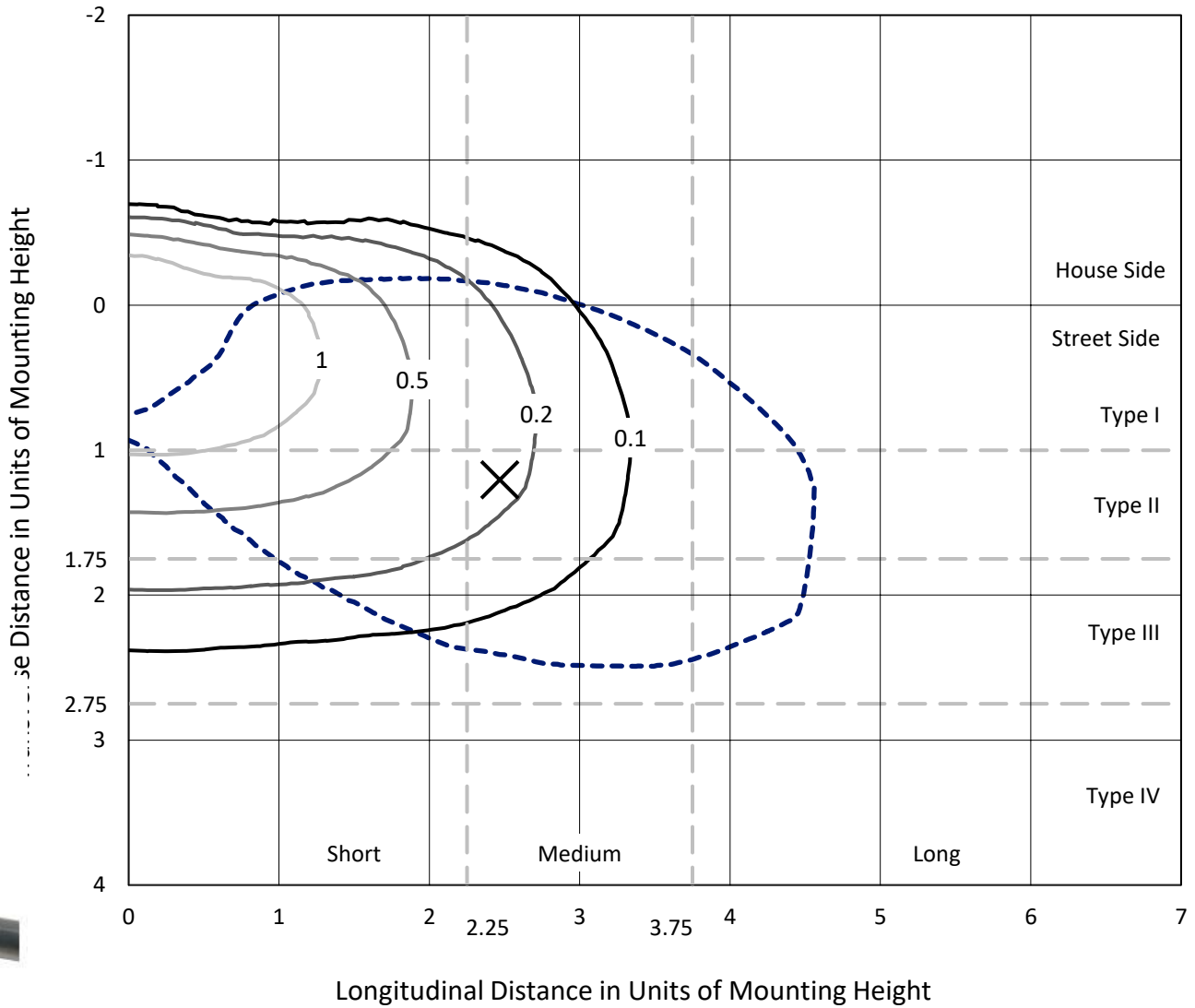
Lumens per Lamp: N/A  
Luminaire Lumens: 6305 lumens  
Efficiency: N/A  
Efficacy: 125.1 lumens/watt  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 50.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

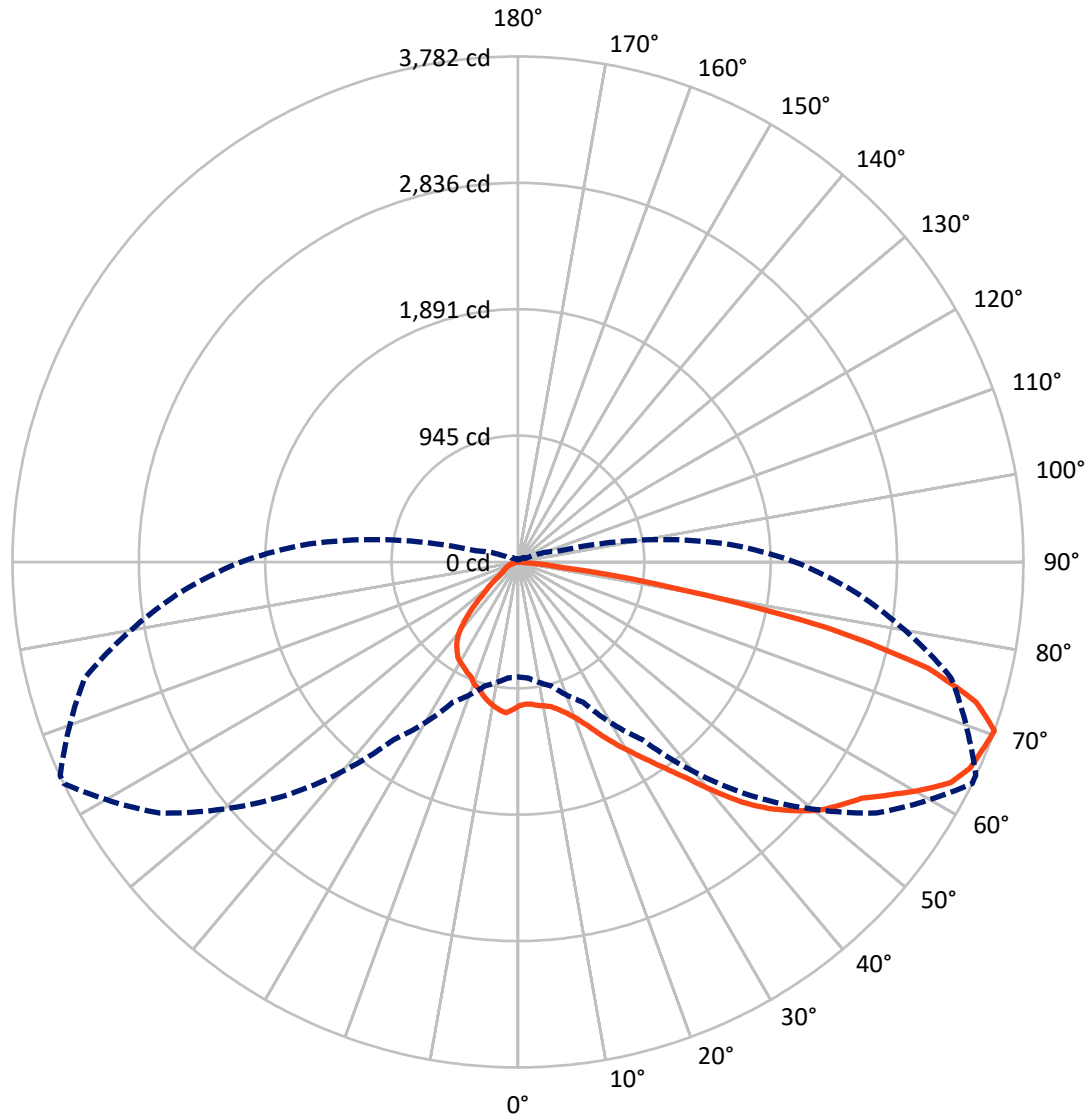
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



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

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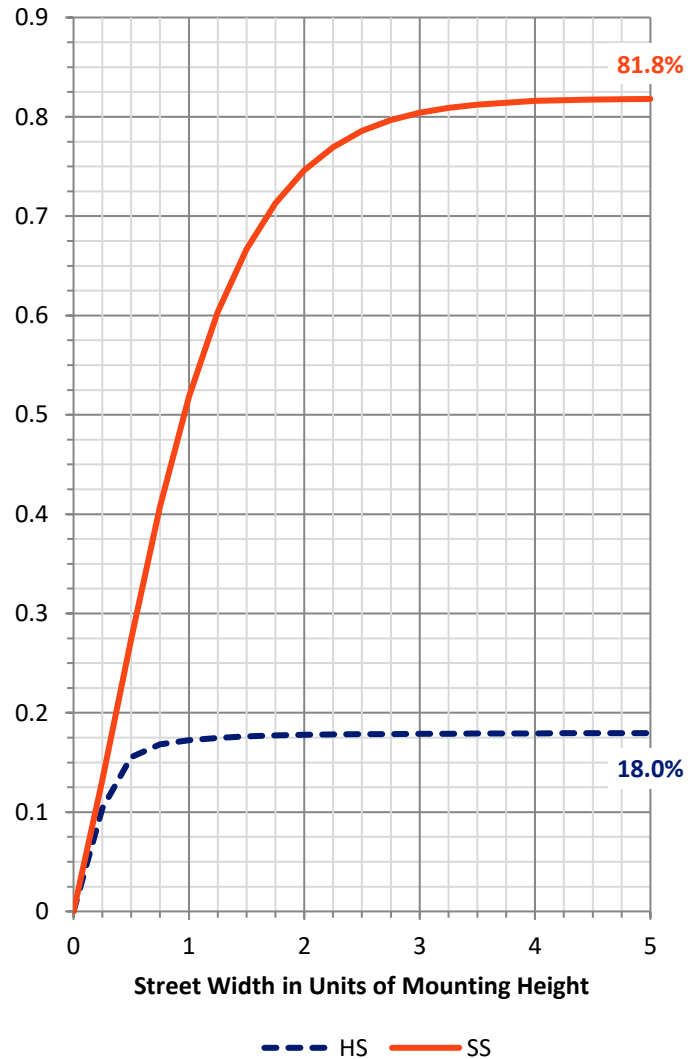
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1145.9	0.0	1145.9
	% Fixture	18.2	0.0	18.2
<b>Street Side</b>	Lumens	5159.1	0.0	5159.1
	% Fixture	81.8	0.0	81.8
<b>Total</b>	Lumens	6305.0	0.0	6305.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.9	1.7
10°-20°	310.4	4.9
20°-30°	522.9	8.3
30°-40°	769.6	12.2
40°-50°	1055.4	16.7
50°-60°	1284.2	20.4
60°-70°	1363.4	21.6
70°-80°	835.8	13.3
80°-90°	58.3	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°	6305.0	100.0
0°-180°	6305.0	100.0



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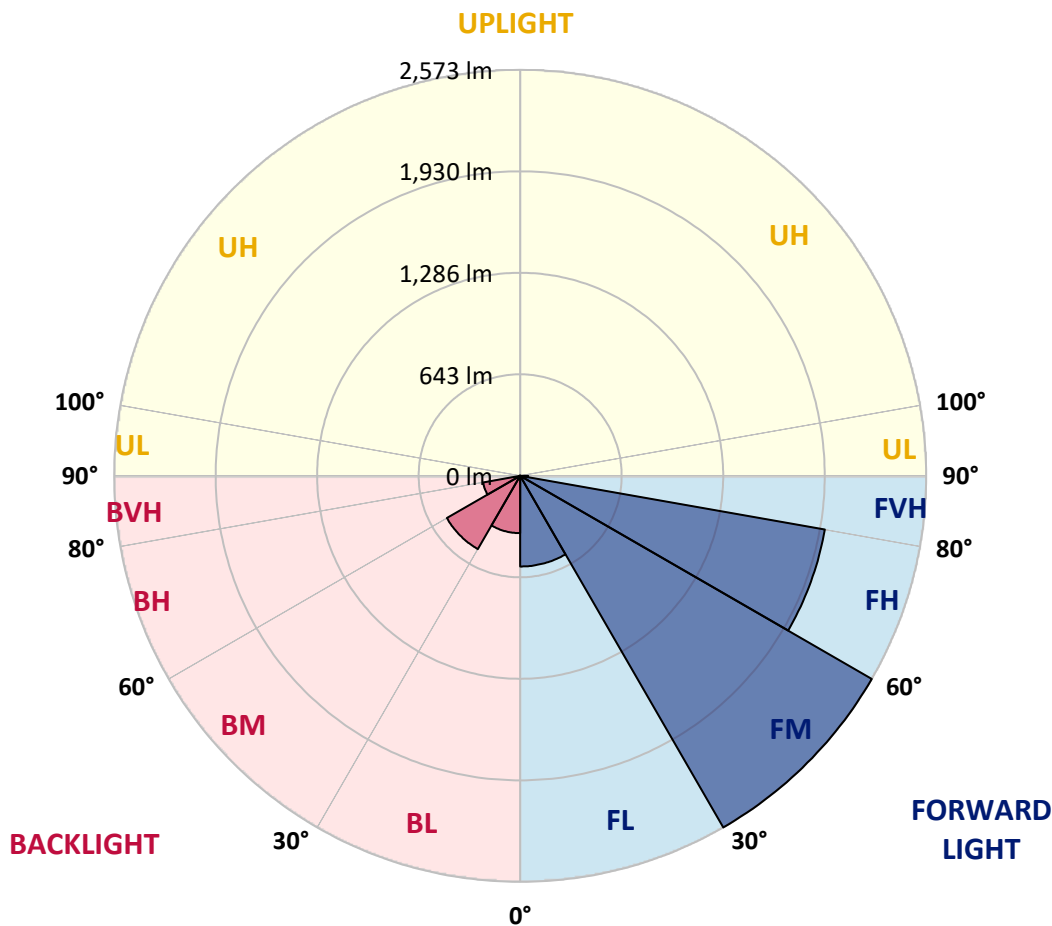
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	574.7	9.1			
FM (30°-60°)	2572.9	40.8			
FH (60°-80°)	1960.7	31.1			G2/5000
FVH (80°-90°)	50.8	0.8			G1/100
BL (0°-30°)	363.5	5.8	B1/500		
BM (30°-60°)	536.3	8.5	B1/1000		
BH (60°-80°)	238.6	3.8	B1/500		G1/500
BVH (80°-90°)	7.5	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-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6
2.5°	1065.0	1065.0	1067.3	1065.0	1069.6	1062.7	1065.0	1065.0	1065.0	1067.3	1074.3
5°	1097.4	1097.4	1092.8	1085.8	1078.9	1069.6	1069.6	1069.6	1069.6	1074.3	1090.4
7.5°	1118.2	1115.9	1115.9	1115.9	1108.9	1090.4	1085.8	1083.5	1083.5	1083.5	1099.7
10°	1169.0	1162.1	1152.8	1139.0	1132.0	1115.9	1097.4	1095.1	1095.1	1097.4	1118.2
12.5°	1217.5	1210.6	1210.6	1201.3	1173.6	1155.1	1122.8	1111.2	1111.2	1115.9	1127.4
15°	1298.4	1291.4	1273.0	1256.8	1231.4	1199.0	1166.7	1145.9	1143.6	1152.8	1136.6
17.5°	1356.1	1344.6	1346.9	1321.5	1300.7	1254.5	1222.1	1189.8	1189.8	1199.0	1166.7
20°	1411.6	1411.6	1413.9	1411.6	1376.9	1340.0	1286.8	1247.5	1249.8	1252.2	1201.3
22.5°	1494.7	1492.4	1492.4	1494.7	1471.6	1430.1	1372.3	1328.4	1326.1	1307.6	1245.2
25°	1591.8	1587.1	1577.9	1587.1	1575.6	1527.1	1471.6	1427.7	1420.8	1395.4	1309.9
27.5°	1672.6	1672.6	1672.6	1677.2	1677.2	1642.6	1580.2	1534.0	1538.6	1504.0	1386.2
30°	1730.4	1730.4	1751.2	1760.4	1767.3	1755.8	1688.8	1640.3	1649.5	1607.9	1480.9
32.5°	1792.8	1790.5	1818.2	1839.0	1848.2	1852.8	1797.4	1758.1	1760.4	1723.5	1589.5
35°	1850.5	1845.9	1882.9	1926.8	1949.9	1945.2	1906.0	1892.1	1896.7	1885.2	1737.3
37.5°	1892.1	1899.0	1947.5	2005.3	2042.3	2051.5	2026.1	2051.5	2076.9	2093.1	1929.1
40°	1938.3	1938.3	1984.5	2046.9	2104.6	2139.3	2157.8	2250.2	2271.0	2282.5	2042.3
42.5°	1892.1	1908.3	2005.3	2095.4	2171.6	2224.8	2301.0	2455.8	2478.9	2407.3	2192.4
45°	1852.8	1866.7	1963.7	2116.2	2227.1	2331.1	2469.7	2631.4	2654.5	2532.0	2277.9
47.5°	1813.6	1829.7	1931.4	2100.0	2277.9	2448.9	2606.0	2781.6	2793.1	2640.6	2391.1
50°	1769.7	1785.8	1892.1	2079.2	2307.9	2575.9	2740.0	2920.2	2922.5	2735.3	2448.9
52.5°	1714.2	1735.0	1841.3	2049.2	2333.4	2661.4	2860.1	3021.8	3008.0	2850.9	2518.2
55°	1644.9	1668.0	1785.8	2009.9	2347.2	2716.9	2938.6	3121.2	3111.9	2984.9	2608.3
57.5°	1566.4	1591.8	1714.2	1949.9	2342.6	2744.6	3019.5	3285.2	3289.8	3095.7	2675.3
60°	1476.3	1499.4	1614.9	1871.3	2282.5	2795.4	3192.8	3465.4	3481.6	3218.2	2703.0
62.5°	1358.4	1379.2	1490.1	1755.8	2206.3	2832.4	3324.5	3636.3	3629.4	3301.4	2712.2
65°	1210.6	1233.7	1337.6	1603.3	2086.2	2809.3	3366.0	3717.2	3717.2	3361.4	2705.3
67.5°	1060.4	1081.2	1169.0	1409.3	1892.1	2693.8	3340.6	3749.5	3770.3	3400.7	2642.9
70°	859.4	871.0	958.8	1157.4	1621.8	2476.6	3275.9	3781.9	3779.6	3356.8	2525.1
72.5°	630.7	644.6	716.2	868.7	1254.5	2143.9	3072.6	3585.5	3548.6	3121.2	2296.4
75°	325.7	339.6	395.1	545.2	799.3	1513.2	2619.8	3167.4	3160.4	2763.1	1901.3
77.5°	43.9	43.9	50.8	90.1	184.8	603.0	1716.5	2372.6	2358.8	2107.0	1381.5
80°	30.0	30.0	34.7	41.6	53.1	131.7	605.3	1203.6	1224.4	1085.8	619.1
82.5°	23.1	20.8	25.4	30.0	32.3	60.1	184.8	332.7	337.3	302.6	189.4
85°	13.9	13.9	13.9	13.9	11.6	16.2	41.6	55.4	62.4	60.1	48.5
87.5°	6.9	6.9	6.9	4.6	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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°	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6
2.5°	1076.6	1083.5	1092.8	1104.3	1115.9	1125.1	1134.3	1139.0	1143.6	1145.9	1148.2
5°	1095.1	1104.3	1115.9	1132.0	1132.0	1125.1	1120.5	1120.5	1125.1	1132.0	1134.3
7.5°	1113.5	1122.8	1118.2	1115.9	1118.2	1108.9	1097.4	1090.4	1085.8	1085.8	1090.4
10°	1120.5	1111.2	1106.6	1095.1	1072.0	1067.3	1058.1	1039.6	1035.0	1039.6	1023.4
12.5°	1115.9	1108.9	1085.8	1067.3	1044.2	1005.0	981.9	981.9	970.3	968.0	970.3
15°	1127.4	1104.3	1076.6	1037.3	995.7	963.4	926.4	894.1	884.8	887.1	887.1
17.5°	1136.6	1113.5	1058.1	998.0	961.1	903.3	861.7	843.2	827.1	824.8	824.8
20°	1157.4	1125.1	1046.5	981.9	889.4	845.6	799.3	776.2	750.8	716.2	704.6
22.5°	1189.8	1145.9	1039.6	938.0	857.1	787.8	720.8	651.5	609.9	582.2	589.1
25°	1233.7	1185.2	1046.5	921.8	808.6	720.8	633.0	538.3	475.9	457.4	469.0
27.5°	1312.2	1229.1	1067.3	898.7	773.9	642.3	510.6	427.4	369.6	351.2	358.1
30°	1383.8	1296.1	1069.6	884.8	718.5	549.8	402.0	309.6	263.4	235.6	228.7
32.5°	1513.2	1367.7	1127.4	866.3	660.7	448.2	295.7	205.6	164.0	147.9	143.2
35°	1640.3	1494.7	1143.6	831.7	554.5	332.7	182.5	122.4	99.3	87.8	85.5
37.5°	1815.9	1649.5	1210.6	794.7	448.2	203.3	110.9	73.9	69.3	67.0	67.0
40°	1903.7	1730.4	1266.0	741.6	314.2	115.5	71.6	64.7	62.4	60.1	60.1
42.5°	2028.4	1822.8	1312.2	646.9	184.8	76.2	64.7	60.1	57.8	55.4	55.4
45°	2097.7	1871.3	1300.7	531.4	92.4	71.6	62.4	57.8	53.1	53.1	53.1
47.5°	2190.1	1942.9	1270.6	392.7	83.2	69.3	60.1	55.4	53.1	55.4	53.1
50°	2277.9	2012.2	1187.5	311.9	80.9	67.0	60.1	53.1	53.1	53.1	53.1
52.5°	2326.4	2076.9	1083.5	228.7	83.2	67.0	57.8	53.1	53.1	50.8	53.1
55°	2372.6	2086.2	1000.3	166.3	83.2	64.7	55.4	50.8	48.5	46.2	46.2
57.5°	2405.0	2065.4	933.3	138.6	83.2	64.7	53.1	48.5	41.6	39.3	39.3
60°	2395.7	2014.5	877.9	127.1	78.5	60.1	48.5	41.6	37.0	32.3	32.3
62.5°	2370.3	1984.5	776.2	110.9	71.6	55.4	43.9	34.7	30.0	27.7	27.7
65°	2347.2	1889.8	658.4	99.3	67.0	48.5	37.0	30.0	25.4	23.1	23.1
67.5°	2236.3	1765.0	489.8	85.5	60.1	43.9	32.3	27.7	23.1	20.8	18.5
70°	2072.3	1564.0	321.1	73.9	53.1	37.0	27.7	23.1	18.5	16.2	16.2
72.5°	1792.8	1291.4	166.3	60.1	43.9	32.3	25.4	20.8	16.2	13.9	13.9
75°	1455.5	949.5	99.3	46.2	34.7	27.7	20.8	16.2	13.9	11.6	11.6
77.5°	1007.3	524.4	71.6	34.7	23.1	20.8	16.2	13.9	11.6	9.2	9.2
80°	339.6	143.2	50.8	25.4	16.2	16.2	11.6	9.2	9.2	6.9	6.9
82.5°	134.0	87.8	34.7	18.5	13.9	11.6	9.2	6.9	6.9	6.9	6.9
85°	37.0	25.4	13.9	9.2	6.9	6.9	6.9	4.6	4.6	4.6	4.6
87.5°	2.3	4.6	4.6	4.6	4.6	4.6	2.3	2.3	2.3	2.3	2.3
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)