

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: P691685

Luminaire Tested: **CRTK2-C018-D-U-T2-8027-U0-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691685
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-C018-D-U-T2-8027-U0-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 80 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: 5323 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Circular (Dia: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

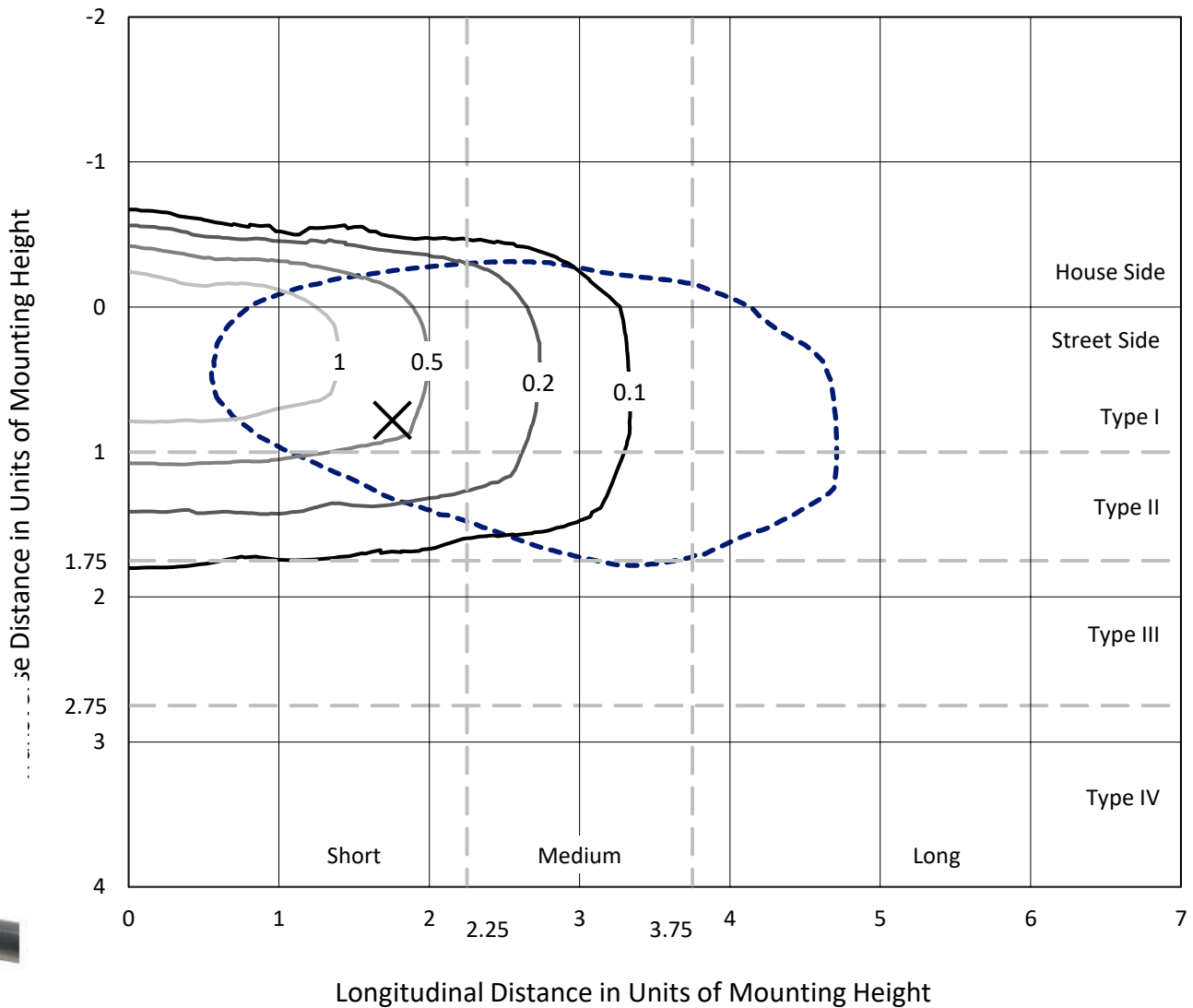


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

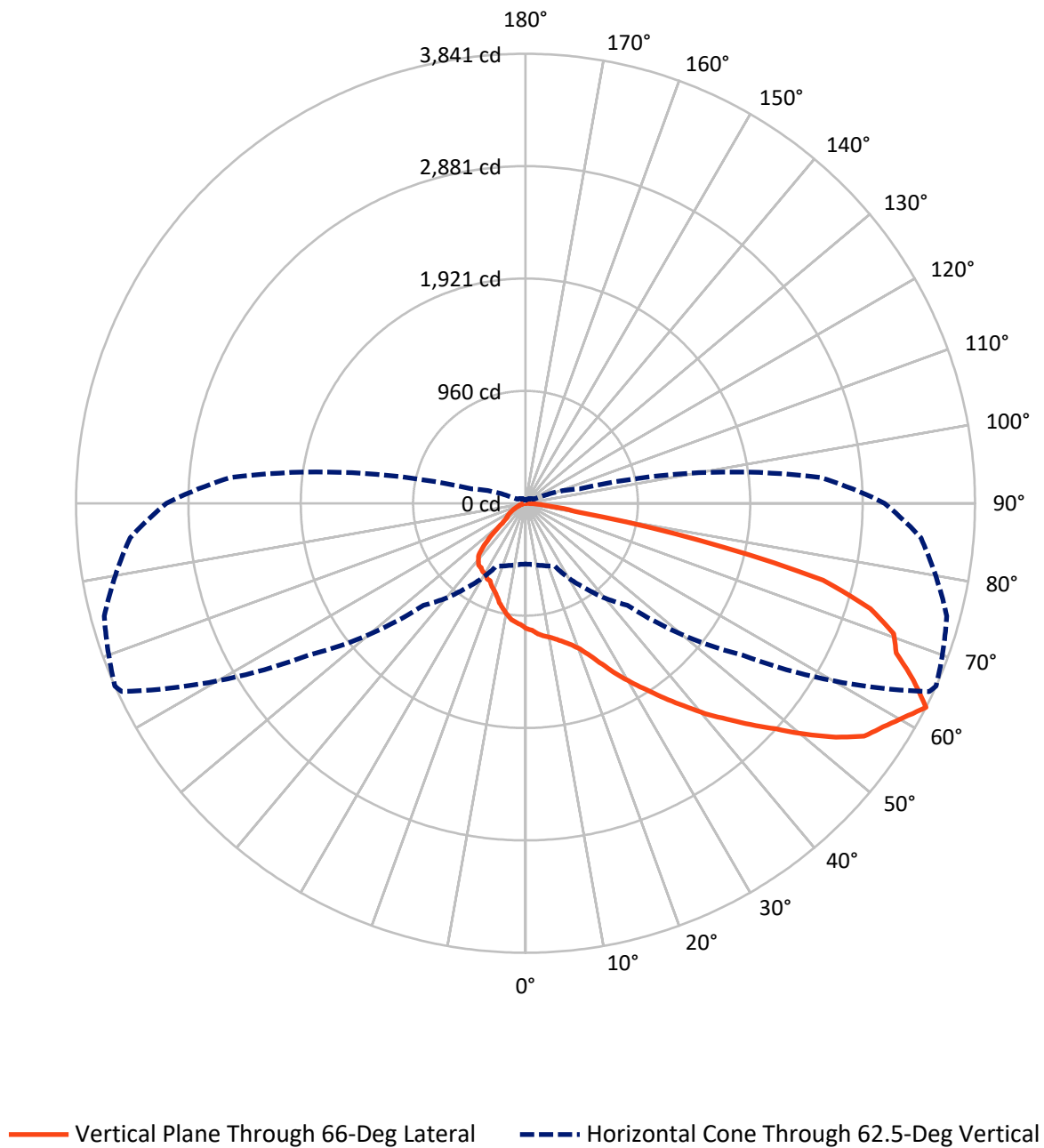


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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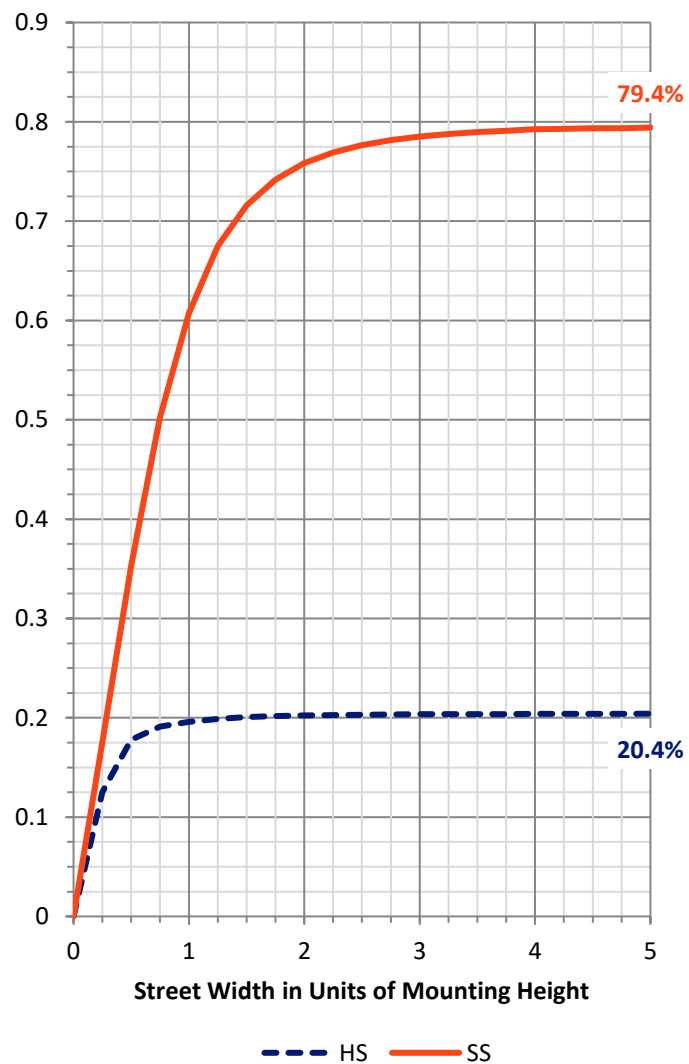
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1099.6	0.0	1099.6
	% Fixture	20.7	0.0	20.7
Street Side	Lumens	4223.4	0.0	4223.4
	% Fixture	79.3	0.0	79.3
Total	Lumens	5323.0	0.0	5323.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	1.9
10°-20°	288.1	5.4
20°-30°	472.7	8.9
30°-40°	695.6	13.1
40°-50°	917.3	17.2
50°-60°	1067.9	20.1
60°-70°	1061.1	19.9
70°-80°	656.4	12.3
80°-90°	62.8	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°	5323.0	100.0
0°-180°	5323.0	100.0

Coefficient of Utilization



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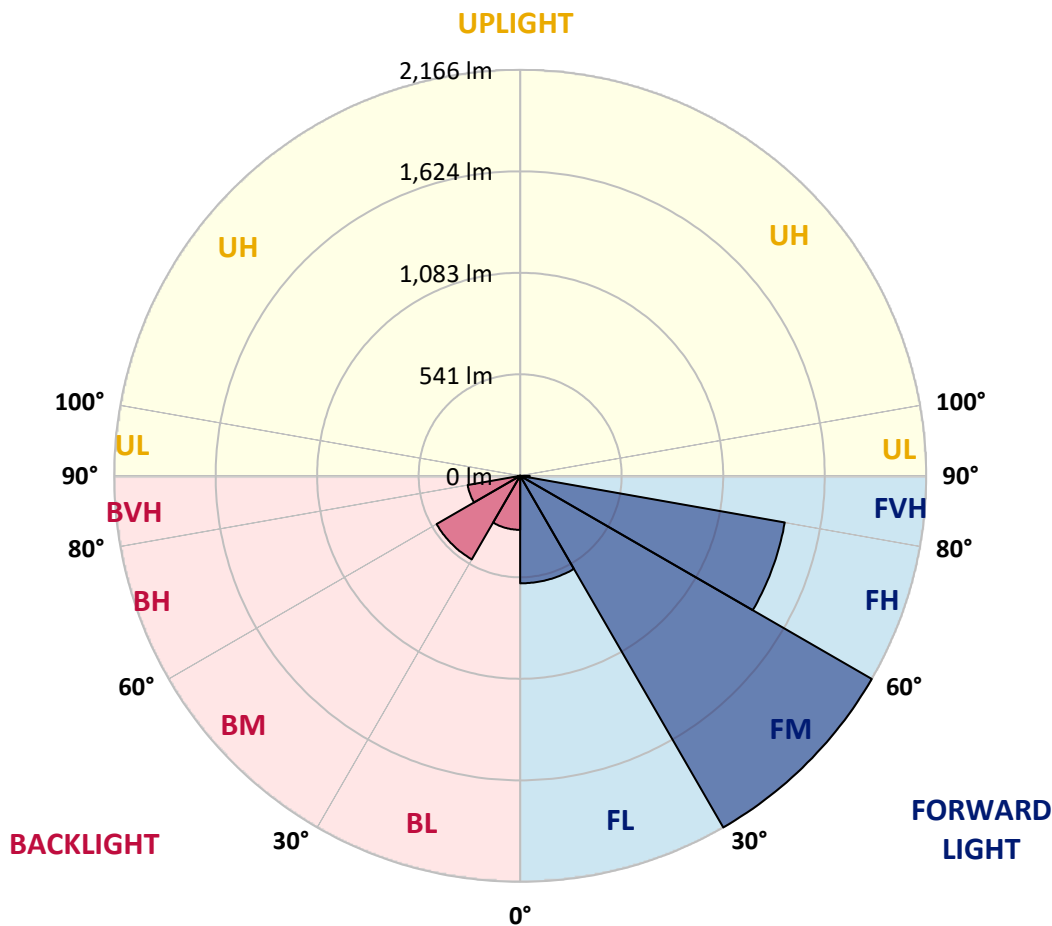
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	573.6	10.8			
FM	(30°-60°)	2165.9	40.7			
FH	(60°-80°)	1433.3	26.9			G1/1800
FVH	(80°-90°)	50.7	1.0			G1/100
BL	(0°-30°)	288.4	5.4	B1/500		
BM	(30°-60°)	514.9	9.7	B1/1000		
BH	(60°-80°)	284.3	5.3	B1/500		G1/500
BVH	(80°-90°)	12.1	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°	1071.2	1071.2	1071.2	1071.2	1071.2	1071.2	1071.2	1071.2	1071.2	1071.2	1071.2
2.5°	1131.4	1131.4	1129.3	1115.3	1109.3	1101.3	1095.2	1089.2	1087.2	1081.2	1071.2
5°	1197.5	1195.5	1195.5	1183.5	1171.5	1155.4	1139.4	1123.3	1121.3	1105.3	1083.2
7.5°	1235.7	1235.7	1231.6	1223.6	1215.6	1205.6	1181.5	1147.4	1145.4	1123.3	1093.2
10°	1245.7	1247.7	1255.7	1235.7	1229.6	1219.6	1207.6	1171.5	1165.5	1133.4	1085.2
12.5°	1281.8	1281.8	1279.8	1261.7	1255.7	1247.7	1227.6	1199.6	1193.5	1153.4	1087.2
15°	1325.9	1327.9	1321.9	1305.9	1297.8	1287.8	1261.7	1231.6	1229.6	1177.5	1103.3
17.5°	1348.0	1348.0	1352.0	1329.9	1331.9	1327.9	1315.9	1273.8	1271.8	1223.6	1131.4
20°	1356.0	1358.0	1360.0	1360.0	1362.0	1358.0	1370.1	1334.0	1327.9	1273.8	1169.5
22.5°	1392.1	1396.1	1406.2	1400.1	1410.2	1416.2	1420.2	1422.2	1414.2	1358.0	1233.7
25°	1408.2	1418.2	1432.2	1454.3	1470.4	1482.4	1512.5	1526.5	1524.5	1476.4	1340.0
27.5°	1384.1	1396.1	1444.3	1482.4	1538.6	1570.7	1626.8	1644.9	1650.9	1606.8	1454.3
30°	1416.2	1420.2	1442.3	1490.4	1560.6	1656.9	1733.1	1773.3	1773.3	1739.2	1566.6
32.5°	1366.0	1378.1	1442.3	1530.5	1638.9	1743.2	1815.4	1901.6	1901.6	1885.6	1727.1
35°	1360.0	1366.0	1404.2	1502.5	1640.9	1831.4	1927.7	2030.0	2044.1	2046.1	1885.6
37.5°	1303.9	1315.9	1384.1	1510.5	1701.0	1885.6	2020.0	2178.5	2194.5	2216.6	2018.0
40°	1241.7	1245.7	1305.9	1438.3	1687.0	1955.8	2108.2	2344.9	2363.0	2393.1	2194.5
42.5°	1149.4	1165.5	1265.7	1410.2	1681.0	1977.9	2206.5	2501.4	2521.5	2563.6	2340.9
45°	1067.2	1073.2	1147.4	1307.9	1614.8	2010.0	2282.8	2686.0	2698.0	2724.1	2463.3
47.5°	1001.0	1005.0	1079.2	1217.6	1552.6	2001.9	2357.0	2852.5	2880.5	2920.7	2607.7
50°	802.4	824.4	1009.0	1143.4	1444.3	1987.9	2415.2	3061.1	3103.2	3119.2	2774.2
52.5°	684.0	688.0	784.3	1069.2	1331.9	1927.7	2471.3	3273.7	3321.8	3277.7	2974.8
55°	633.9	637.9	682.0	920.7	1237.7	1811.4	2513.4	3478.3	3512.4	3404.1	3125.3
57.5°	601.8	609.8	629.9	748.2	1125.3	1616.8	2521.5	3590.6	3604.7	3504.4	3201.5
60°	557.7	557.7	597.8	653.9	1003.0	1408.2	2455.3	3646.8	3715.0	3618.7	3341.9
62.5°	519.5	523.6	549.6	591.8	882.6	1231.6	2260.7	3807.3	3841.4	3727.0	3392.0
65°	475.4	479.4	503.5	545.6	802.4	1133.4	2156.4	3743.1	3642.8	3699.0	3454.2
67.5°	425.3	427.3	451.3	489.4	674.0	1045.1	1905.6	3498.4	3416.1	3566.6	3281.7
70°	375.1	375.1	395.2	425.3	549.6	916.7	1574.7	3275.7	3337.9	3345.9	3111.2
72.5°	312.9	314.9	335.0	361.1	441.3	766.3	1245.7	3053.0	3081.1	2974.8	2736.1
75°	224.7	232.7	254.8	280.8	349.0	607.8	884.6	2481.4	2627.8	2816.3	2351.0
77.5°	34.1	34.1	42.1	64.2	114.3	304.9	409.2	1370.1	1520.5	2357.0	2054.1
80°	28.1	28.1	30.1	42.1	66.2	170.5	132.4	429.3	461.4	1083.2	1157.4
82.5°	14.0	14.0	22.1	30.1	40.1	50.1	56.2	206.6	238.7	369.1	461.4
85°	8.0	8.0	10.0	14.0	16.0	16.0	18.1	98.3	102.3	200.6	208.6
87.5°	2.0	2.0	4.0	4.0	4.0	2.0	2.0	2.0	2.0	2.0	2.0
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°	1071.2	1071.2	1071.2	1071.2	1071.2	1071.2	1071.2	1071.2	1071.2	1071.2	1071.2
2.5°	1067.2	1061.1	1049.1	1039.1	1033.1	1021.0	1011.0	1003.0	999.0	1009.0	1011.0
5°	1069.2	1055.1	1033.1	1019.0	1003.0	982.9	958.8	944.8	938.8	940.8	946.8
7.5°	1073.2	1053.1	1027.0	997.0	954.8	914.7	886.6	870.6	862.6	872.6	872.6
10°	1061.1	1039.1	1003.0	956.8	902.7	862.6	830.5	802.4	792.3	796.4	798.4
12.5°	1061.1	1031.1	970.9	914.7	864.6	798.4	750.2	724.1	714.1	716.1	720.1
15°	1067.2	1027.0	942.8	874.6	800.4	730.2	688.0	655.9	645.9	635.9	639.9
17.5°	1087.2	1021.0	928.8	820.4	738.2	672.0	613.8	577.7	569.7	569.7	571.7
20°	1107.3	1029.0	904.7	780.3	682.0	599.8	539.6	513.5	495.5	487.4	495.5
22.5°	1149.4	1057.1	888.6	754.2	623.8	545.6	489.4	431.3	399.2	385.1	389.2
25°	1225.6	1107.3	900.7	708.1	591.8	495.5	417.2	347.0	302.9	288.9	292.9
27.5°	1344.0	1189.5	914.7	704.1	533.6	445.3	339.0	262.8	228.7	214.6	218.6
30°	1460.3	1301.9	960.8	664.0	511.5	365.1	256.8	202.6	168.5	154.5	158.5
32.5°	1560.6	1410.2	1019.0	653.9	453.3	274.8	192.6	150.4	124.4	112.3	114.3
35°	1709.1	1502.5	1069.2	623.8	385.1	206.6	140.4	108.3	94.3	90.3	90.3
37.5°	1841.5	1610.8	1117.3	613.8	288.9	154.5	100.3	88.3	86.3	80.2	80.2
40°	1979.9	1725.1	1139.4	577.7	210.6	108.3	82.2	82.2	80.2	74.2	74.2
42.5°	2142.3	1841.5	1159.4	535.6	150.4	82.2	76.2	78.2	76.2	70.2	68.2
45°	2258.7	1913.7	1165.5	429.3	104.3	78.2	72.2	74.2	72.2	68.2	66.2
47.5°	2365.0	2018.0	1139.4	300.9	84.2	74.2	70.2	70.2	70.2	64.2	62.2
50°	2475.3	2104.2	1117.3	162.5	82.2	72.2	66.2	64.2	66.2	62.2	60.2
52.5°	2621.8	2170.4	1059.1	110.3	80.2	70.2	64.2	60.2	62.2	58.2	60.2
55°	2816.3	2344.9	952.8	104.3	80.2	68.2	62.2	56.2	56.2	54.2	54.2
57.5°	2904.6	2411.1	782.3	100.3	78.2	68.2	58.2	52.2	48.1	46.1	44.1
60°	3012.9	2507.4	603.8	92.3	72.2	64.2	52.2	46.1	40.1	38.1	38.1
62.5°	3069.1	2529.5	477.4	82.2	66.2	56.2	46.1	38.1	32.1	28.1	28.1
65°	3101.2	2517.5	333.0	74.2	58.2	50.1	40.1	32.1	24.1	22.1	20.1
67.5°	2992.9	2445.2	194.6	64.2	50.1	44.1	34.1	26.1	20.1	18.1	16.0
70°	2776.2	2224.6	122.4	56.2	44.1	38.1	30.1	22.1	16.0	14.0	14.0
72.5°	2543.5	1793.3	84.2	44.1	34.1	30.1	22.1	18.1	14.0	10.0	10.0
75°	2288.8	1556.6	62.2	32.1	24.1	22.1	18.1	14.0	12.0	8.0	8.0
77.5°	1622.8	1031.1	50.1	24.1	16.0	14.0	12.0	10.0	8.0	8.0	6.0
80°	958.8	503.5	38.1	16.0	12.0	10.0	8.0	8.0	6.0	6.0	6.0
82.5°	359.1	192.6	26.1	12.0	8.0	8.0	6.0	6.0	4.0	4.0	4.0
85°	130.4	48.1	12.0	6.0	6.0	4.0	4.0	4.0	4.0	4.0	4.0
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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)