

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: P690841

Luminaire Tested: **CRTK2-C01-5TLD-U-T2-7040-U0-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P690841
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-C01-5TLD-U-T2-7040-U0-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K 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: 7646 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Luminous Opening: Circular (Dia: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - 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

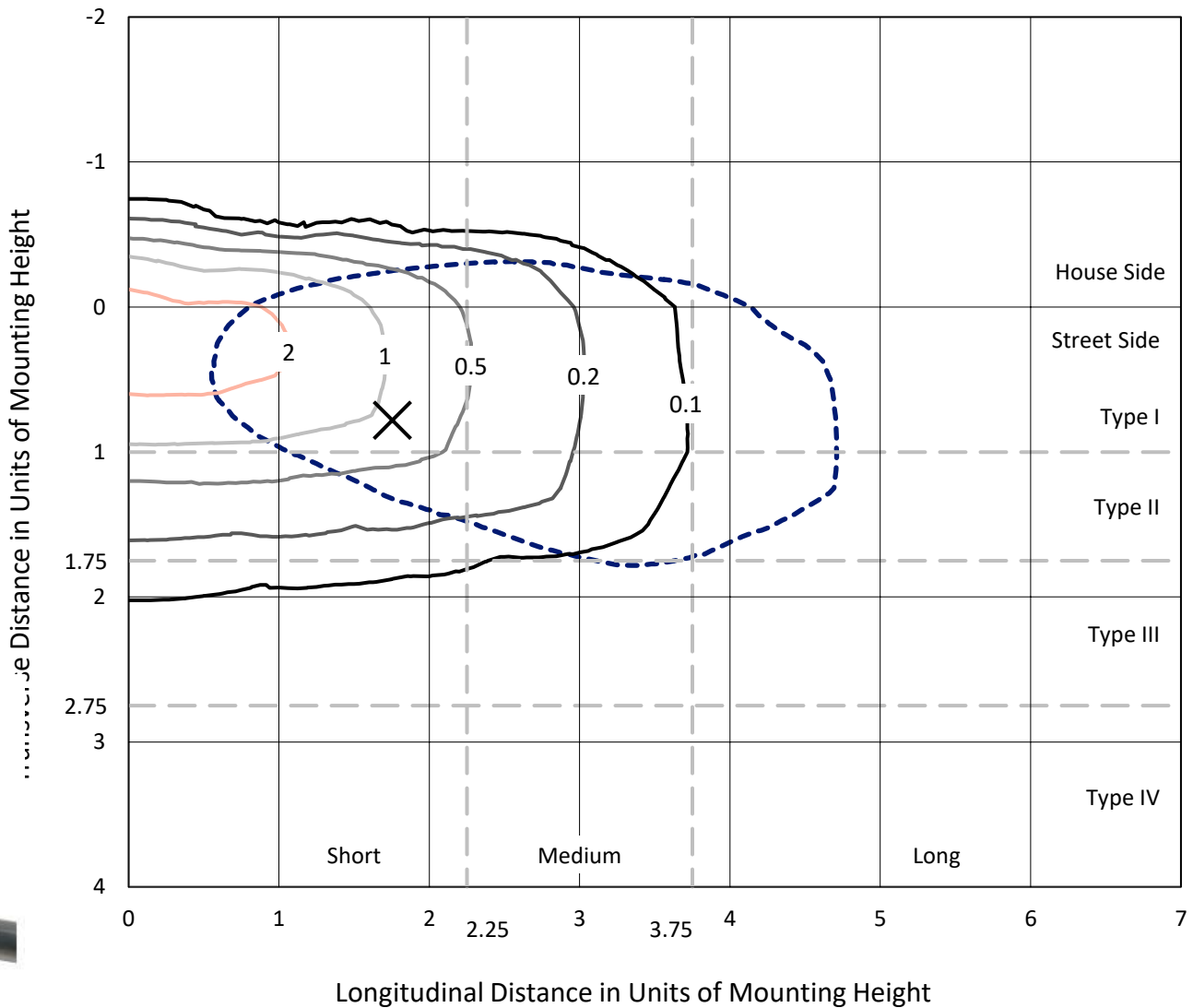


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

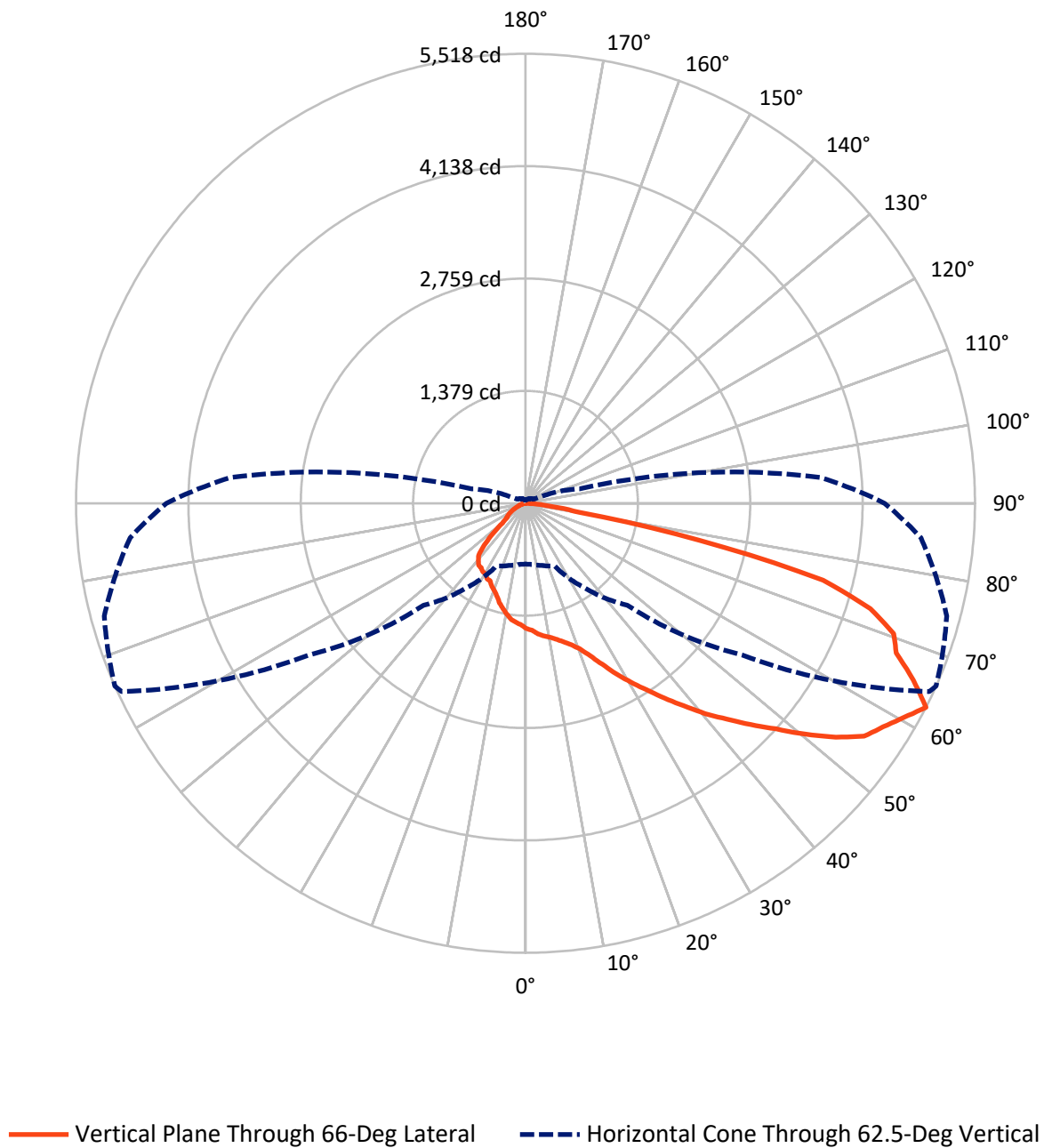


Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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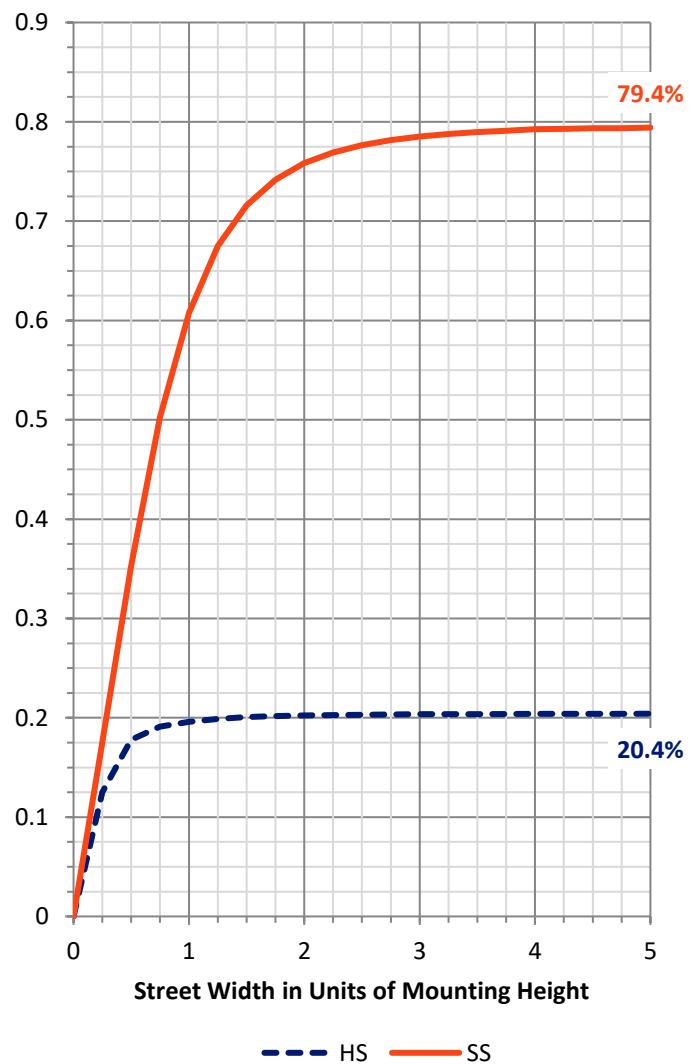
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1579.5	0.0	1579.5
	% Fixture	20.7	0.0	20.7
Street Side	Lumens	6066.5	0.0	6066.5
	% Fixture	79.3	0.0	79.3
Total	Lumens	7646.0	0.0	7646.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.3	1.9
10°-20°	413.8	5.4
20°-30°	679.0	8.9
30°-40°	999.1	13.1
40°-50°	1317.7	17.2
50°-60°	1533.9	20.1
60°-70°	1524.2	19.9
70°-80°	942.9	12.3
80°-90°	90.2	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°	7646.0	100.0
0°-180°	7646.0	100.0

Coefficient of Utilization



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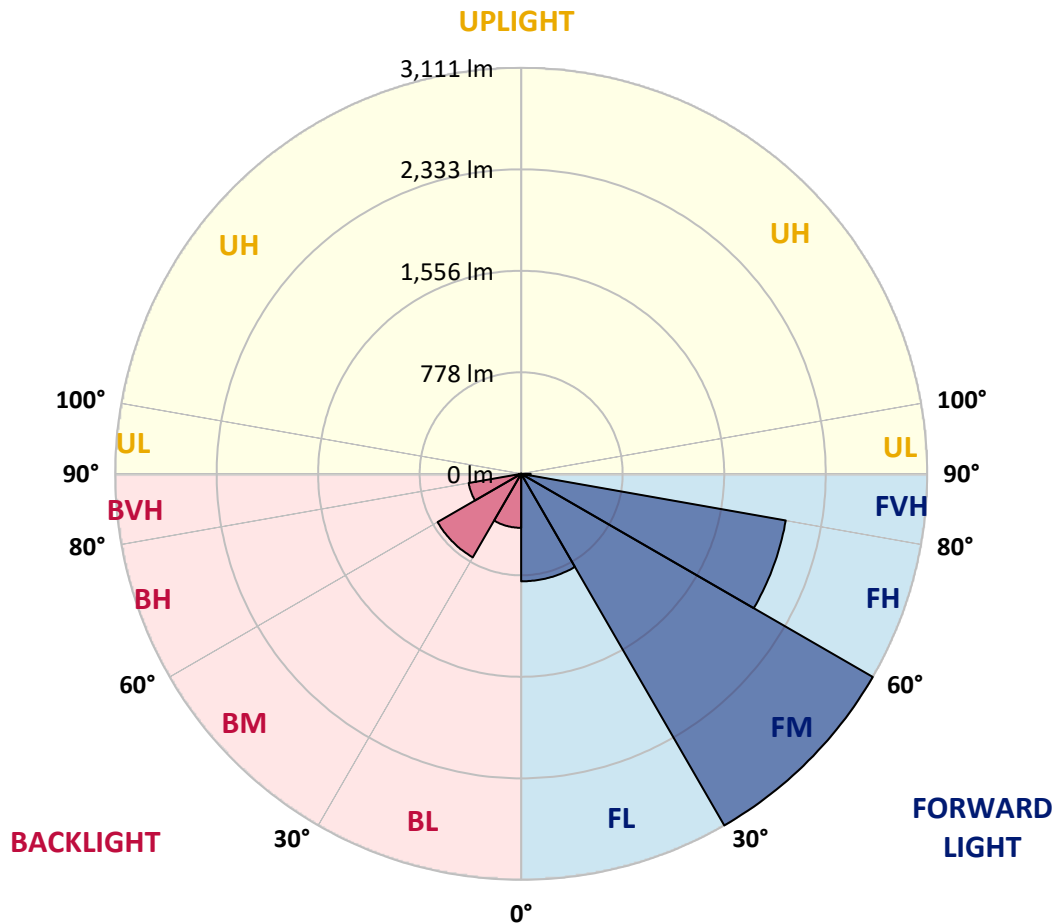
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	823.9	10.8			
FM	(30°-60°)	3111.1	40.7			
FH	(60°-80°)	2058.8	26.9			G2/5000
FVH	(80°-90°)	72.8	1.0			G1/100
BL	(0°-30°)	414.2	5.4	B1/500		
BM	(30°-60°)	739.6	9.7	B1/1000		
BH	(60°-80°)	408.3	5.3	B1/500		G1/500
BVH	(80°-90°)	17.3	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6
2.5°	1625.1	1625.1	1622.2	1602.0	1593.4	1581.9	1573.2	1564.6	1561.7	1553.0	1538.6
5°	1720.2	1717.3	1717.3	1700.0	1682.7	1659.7	1636.6	1613.6	1610.7	1587.6	1555.9
7.5°	1774.9	1774.9	1769.1	1757.6	1746.1	1731.7	1697.1	1648.1	1645.3	1613.6	1570.3
10°	1789.3	1792.2	1803.7	1774.9	1766.3	1751.9	1734.6	1682.7	1674.1	1628.0	1558.8
12.5°	1841.2	1841.2	1838.3	1812.4	1803.7	1792.2	1763.4	1723.0	1714.4	1656.8	1561.7
15°	1904.6	1907.5	1898.8	1875.8	1864.2	1849.8	1812.4	1769.1	1766.3	1691.4	1584.7
17.5°	1936.3	1936.3	1942.0	1910.3	1913.2	1907.5	1890.2	1829.7	1826.8	1757.6	1625.1
20°	1947.8	1950.7	1953.6	1953.6	1956.4	1950.7	1968.0	1916.1	1907.5	1829.7	1679.8
22.5°	1999.7	2005.4	2019.8	2011.2	2025.6	2034.2	2040.0	2042.9	2031.4	1950.7	1772.0
25°	2022.7	2037.1	2057.3	2089.0	2112.0	2129.3	2172.5	2192.7	2189.8	2120.7	1924.7
27.5°	1988.1	2005.4	2074.6	2129.3	2210.0	2256.1	2336.8	2362.7	2371.4	2308.0	2089.0
30°	2034.2	2040.0	2071.7	2140.8	2241.7	2380.0	2489.5	2547.1	2547.1	2498.1	2250.3
32.5°	1962.2	1979.5	2071.7	2198.5	2354.1	2503.9	2607.6	2731.5	2731.5	2708.5	2480.8
35°	1953.6	1962.2	2016.9	2158.1	2356.9	2630.7	2769.0	2915.9	2936.1	2939.0	2708.5
37.5°	1872.9	1890.2	1988.1	2169.7	2443.4	2708.5	2901.5	3129.1	3152.2	3183.9	2898.6
40°	1783.6	1789.3	1875.8	2065.9	2423.2	2809.3	3028.3	3368.3	3394.2	3437.5	3152.2
42.5°	1651.0	1674.1	1818.1	2025.6	2414.6	2841.0	3169.5	3593.0	3621.9	3682.4	3362.5
45°	1532.9	1541.5	1648.1	1878.6	2319.5	2887.1	3279.0	3858.1	3875.4	3912.9	3538.3
47.5°	1437.8	1443.6	1550.2	1749.0	2230.2	2875.6	3385.6	4097.3	4137.6	4195.2	3745.8
50°	1152.5	1184.2	1449.3	1642.4	2074.6	2855.4	3469.1	4396.9	4457.5	4480.5	3984.9
52.5°	982.5	988.3	1126.6	1535.8	1913.2	2769.0	3549.8	4702.4	4771.5	4708.1	4273.0
55°	910.5	916.3	979.7	1322.5	1777.8	2601.9	3610.3	4996.3	5045.2	4889.7	4489.1
57.5°	864.4	875.9	904.7	1074.7	1616.4	2322.4	3621.9	5157.6	5177.8	5033.7	4598.6
60°	801.0	801.0	858.6	939.3	1440.7	2022.7	3526.8	5238.3	5336.3	5198.0	4800.3
62.5°	746.3	752.0	789.5	850.0	1267.8	1769.1	3247.3	5468.8	5517.8	5353.6	4872.4
65°	682.9	688.6	723.2	783.7	1152.5	1628.0	3097.5	5376.6	5232.5	5313.2	4961.7
67.5°	610.8	613.7	648.3	703.0	968.1	1501.2	2737.3	5025.1	4906.9	5123.0	4713.9
70°	538.8	538.8	567.6	610.8	789.5	1316.8	2261.9	4705.2	4794.6	4806.1	4469.0
72.5°	449.5	452.4	481.2	518.6	633.9	1100.7	1789.3	4385.4	4425.8	4273.0	3930.2
75°	322.7	334.2	365.9	403.4	501.4	873.0	1270.7	3564.2	3774.6	4045.4	3376.9
77.5°	49.0	49.0	60.5	92.2	164.2	438.0	587.8	1968.0	2184.1	3385.6	2950.5
80°	40.3	40.3	43.2	60.5	95.1	244.9	190.2	616.6	662.7	1555.9	1662.5
82.5°	20.2	20.2	31.7	43.2	57.6	72.0	80.7	296.8	342.9	530.2	662.7
85°	11.5	11.5	14.4	20.2	23.1	23.1	25.9	141.2	146.9	288.1	299.7
87.5°	2.9	2.9	5.8	5.8	5.8	2.9	2.9	2.9	2.9	2.9	2.9
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°	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6
2.5°	1532.9	1524.2	1506.9	1492.5	1483.9	1466.6	1452.2	1440.7	1434.9	1449.3	1452.2
5°	1535.8	1515.6	1483.9	1463.7	1440.7	1411.9	1377.3	1357.1	1348.5	1351.4	1360.0
7.5°	1541.5	1512.7	1475.3	1432.0	1371.5	1313.9	1273.6	1250.5	1239.0	1253.4	1253.4
10°	1524.2	1492.5	1440.7	1374.4	1296.6	1239.0	1192.9	1152.5	1138.1	1143.9	1146.8
12.5°	1524.2	1481.0	1394.6	1313.9	1241.9	1146.8	1077.6	1040.2	1025.8	1028.6	1034.4
15°	1532.9	1475.3	1354.2	1256.3	1149.7	1048.8	988.3	942.2	927.8	913.4	919.2
17.5°	1561.7	1466.6	1334.1	1178.5	1060.3	965.3	881.7	829.8	818.3	818.3	821.2
20°	1590.5	1478.1	1299.5	1120.8	979.7	861.5	775.1	737.6	711.7	700.2	711.7
22.5°	1651.0	1518.5	1276.4	1083.4	896.1	783.7	703.0	619.5	573.4	553.2	559.0
25°	1760.5	1590.5	1293.7	1017.1	850.0	711.7	599.3	498.5	435.1	414.9	420.7
27.5°	1930.5	1708.6	1313.9	1011.4	766.4	639.7	486.9	377.5	328.5	308.3	314.1
30°	2097.6	1870.0	1380.2	953.7	734.7	524.4	368.8	291.0	242.0	221.9	227.6
32.5°	2241.7	2025.6	1463.7	939.3	651.2	394.7	276.6	216.1	178.6	161.4	164.2
35°	2454.9	2158.1	1535.8	896.1	553.2	296.8	201.7	155.6	135.4	129.7	129.7
37.5°	2645.1	2313.7	1604.9	881.7	414.9	221.9	144.1	126.8	123.9	115.3	115.3
40°	2843.9	2478.0	1636.6	829.8	302.5	155.6	118.1	118.1	115.3	106.6	106.6
42.5°	3077.3	2645.1	1665.4	769.3	216.1	118.1	109.5	112.4	109.5	100.8	98.0
45°	3244.4	2748.8	1674.1	616.6	149.8	112.4	103.7	106.6	103.7	98.0	95.1
47.5°	3397.1	2898.6	1636.6	432.2	121.0	106.6	100.8	100.8	100.8	92.2	89.3
50°	3555.6	3022.5	1604.9	233.4	118.1	103.7	95.1	92.2	95.1	89.3	86.4
52.5°	3765.9	3117.6	1521.4	158.5	115.3	100.8	92.2	86.4	89.3	83.6	86.4
55°	4045.4	3368.3	1368.6	149.8	115.3	98.0	89.3	80.7	80.7	77.8	77.8
57.5°	4172.2	3463.4	1123.7	144.1	112.4	98.0	83.6	74.9	69.2	66.3	63.4
60°	4327.8	3601.7	867.3	132.5	103.7	92.2	74.9	66.3	57.6	54.7	54.7
62.5°	4408.5	3633.4	685.8	118.1	95.1	80.7	66.3	54.7	46.1	40.3	40.3
65°	4454.6	3616.1	478.3	106.6	83.6	72.0	57.6	46.1	34.6	31.7	28.8
67.5°	4299.0	3512.4	279.5	92.2	72.0	63.4	49.0	37.5	28.8	25.9	23.1
70°	3987.8	3195.4	175.8	80.7	63.4	54.7	43.2	31.7	23.1	20.2	20.2
72.5°	3653.6	2575.9	121.0	63.4	49.0	43.2	31.7	25.9	20.2	14.4	14.4
75°	3287.6	2235.9	89.3	46.1	34.6	31.7	25.9	20.2	17.3	11.5	11.5
77.5°	2331.0	1481.0	72.0	34.6	23.1	20.2	17.3	14.4	11.5	11.5	8.6
80°	1377.3	723.2	54.7	23.1	17.3	14.4	11.5	11.5	8.6	8.6	8.6
82.5°	515.8	276.6	37.5	17.3	11.5	11.5	8.6	8.6	5.8	5.8	5.8
85°	187.3	69.2	17.3	8.6	8.6	5.8	5.8	5.8	5.8	5.8	5.8
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
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)