

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: P233461

Luminaire Tested: **VERD-C029-D-U-T2-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233461
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-10)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C029-D-U-T2-8027
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1030mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8945 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 81
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: 28.75 FT

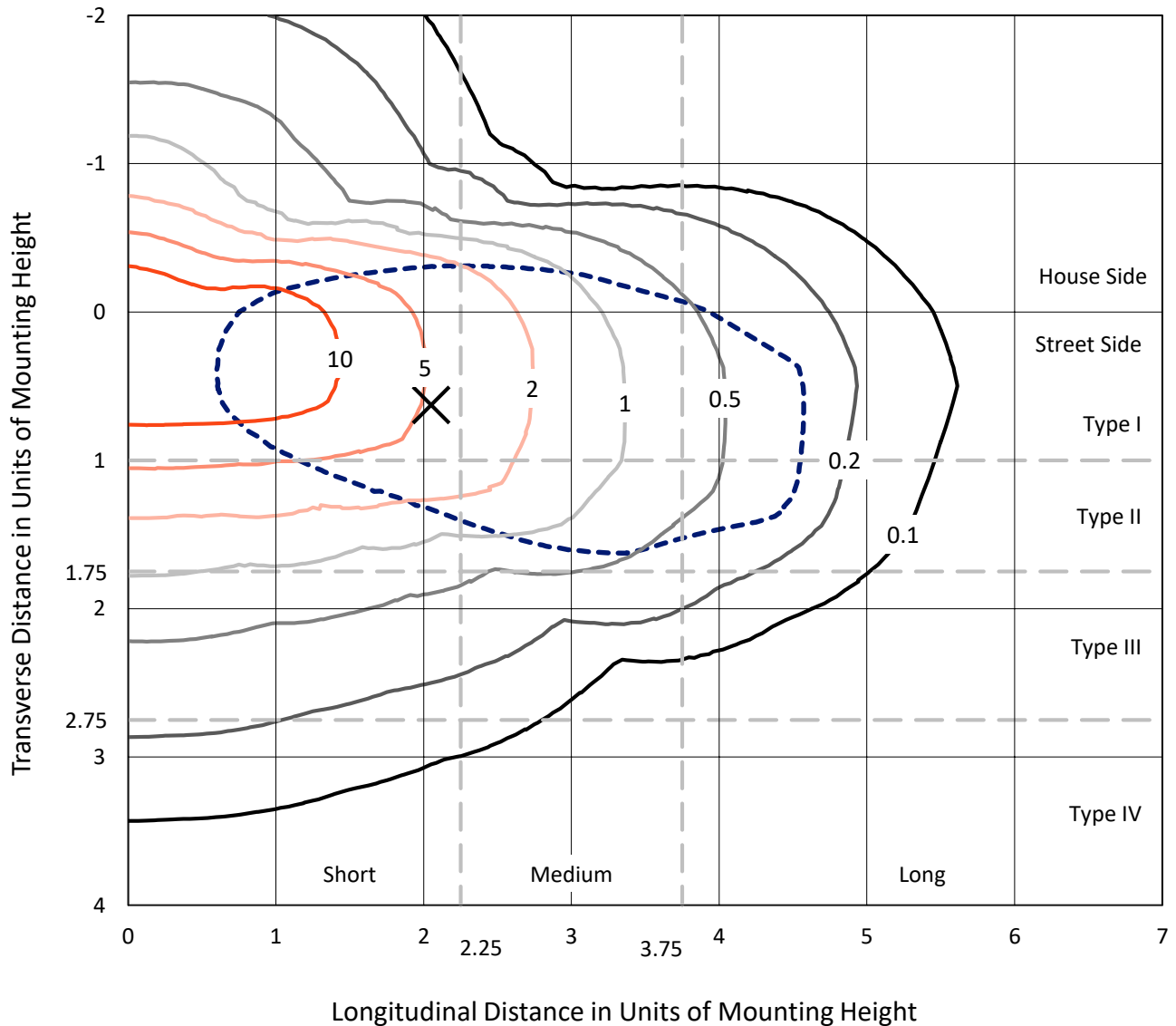


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

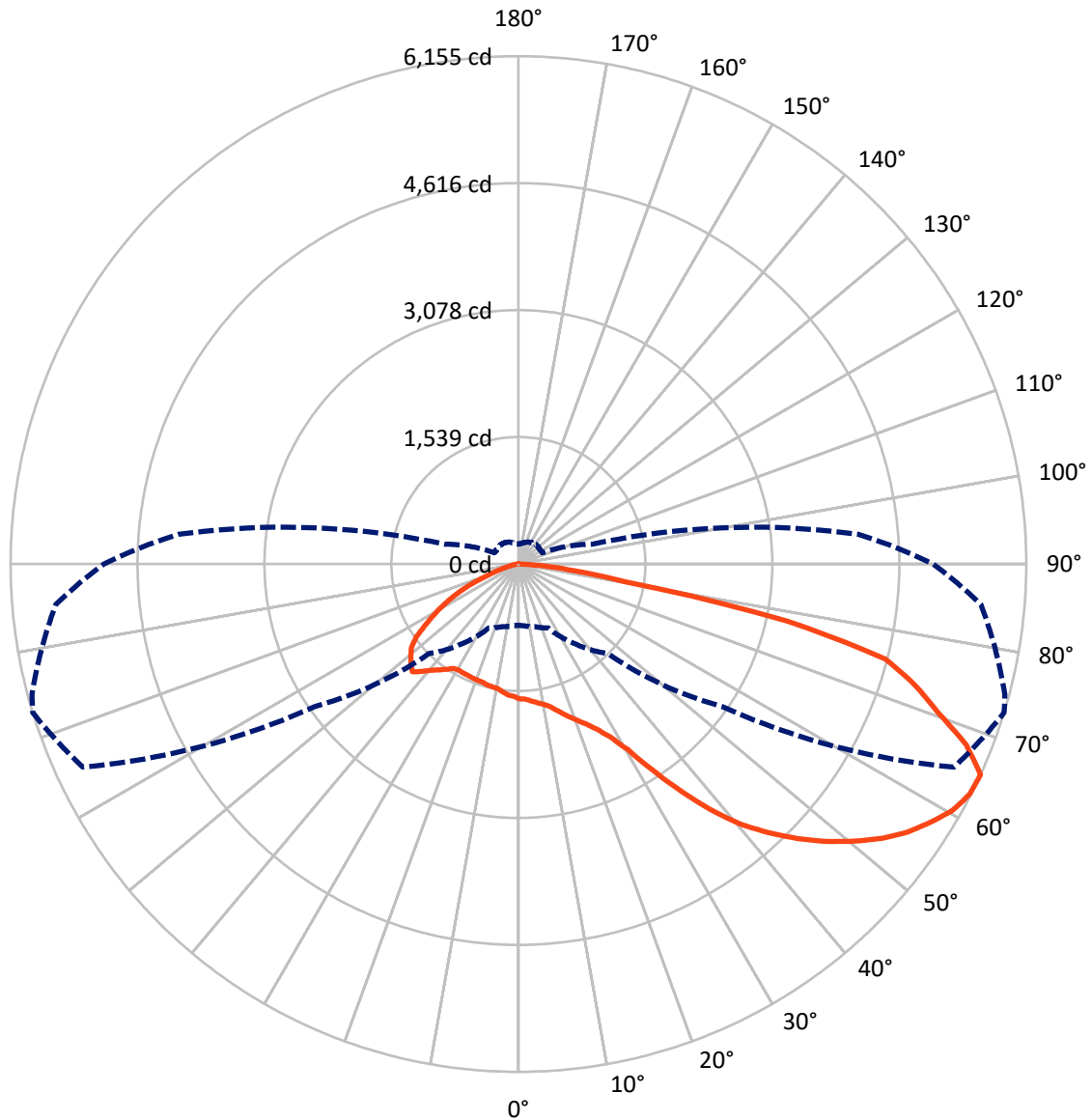


Based on 10 foot mounting height. Maximum calculated value = 19 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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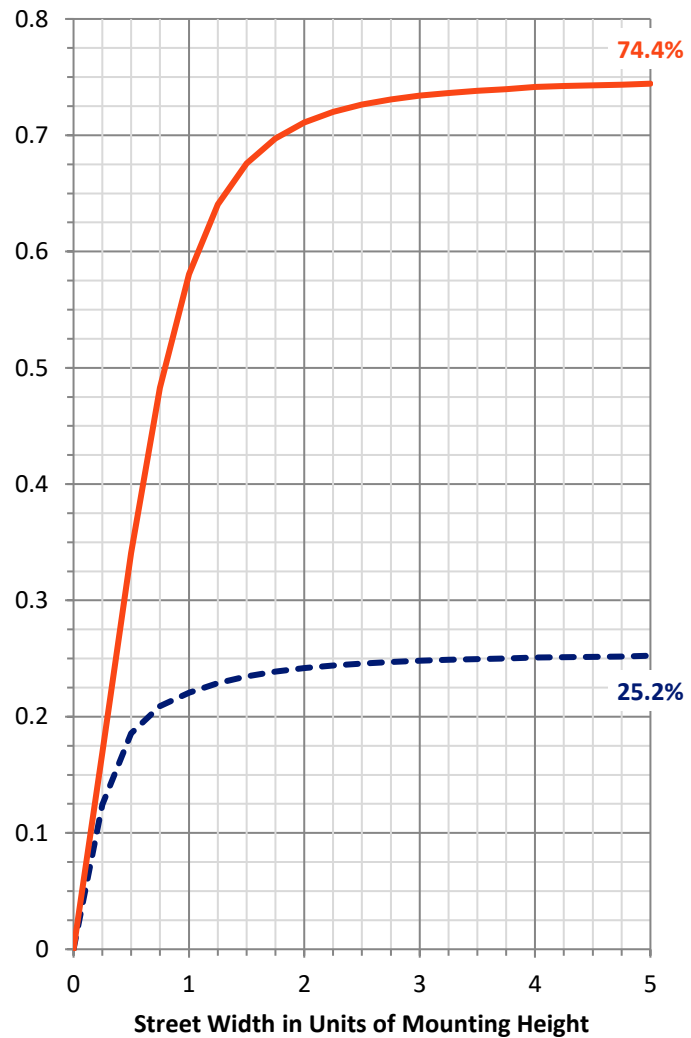
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2293.0	0.0	2293.0
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	6652.0	0.0	6652.0
	% Fixture	74.4	0.0	74.4
Total	Lumens	8945.0	0.0	8945.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.1	1.7
10°-20°	471.9	5.3
20°-30°	791.6	8.8
30°-40°	1160.9	13.0
40°-50°	1569.0	17.5
50°-60°	1817.5	20.3
60°-70°	1775.4	19.8
70°-80°	1066.1	11.9
80°-90°	136.5	1.5
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°	8945.0	100.0
0°-180°	8945.0	100.0



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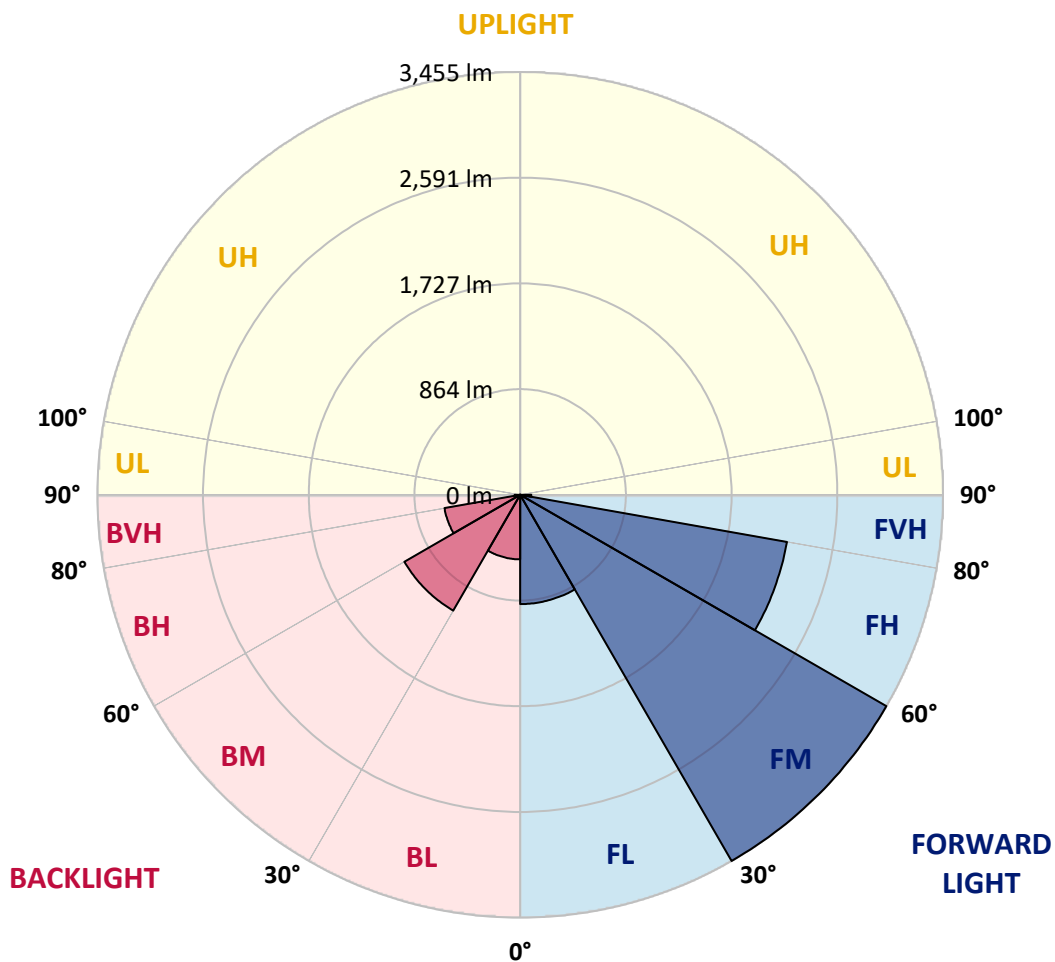
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	892.6	10.0			
FM (30°-60°)	3454.8	38.6			
FH (60°-80°)	2213.7	24.7			G2/5000
FVH (80°-90°)	90.9	1.0			G1/100
BL (0°-30°)	527.0	5.9	B2/1000		
BM (30°-60°)	1092.5	12.2	B2/2500		
BH (60°-80°)	627.8	7.0	B2/1000		G2/1000
BVH (80°-90°)	45.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1635.6	1635.6	1635.6	1635.6	1635.6	1635.6	1635.6	1635.6	1635.6	1635.6	1635.6
2.5°	1736.3	1742.8	1735.5	1714.4	1703.8	1696.5	1674.6	1655.1	1639.6	1638.0	1623.4
5°	1802.9	1812.6	1800.4	1773.6	1763.1	1747.7	1723.3	1696.5	1668.9	1663.2	1634.0
7.5°	1887.3	1889.0	1882.5	1855.7	1833.7	1801.3	1759.0	1730.6	1698.9	1690.0	1643.7
10°	1958.8	1958.0	1949.9	1923.9	1902.0	1873.5	1814.3	1768.0	1730.6	1719.2	1655.1
12.5°	2027.0	2025.4	2017.3	1990.5	1962.9	1939.3	1894.6	1832.1	1781.8	1767.1	1687.6
15°	2111.5	2107.4	2094.4	2058.7	2036.8	2009.2	1976.7	1914.1	1856.5	1836.2	1734.7
17.5°	2176.5	2175.6	2165.9	2135.8	2109.9	2079.8	2049.8	2001.0	1938.5	1915.8	1781.0
20°	2213.8	2210.6	2208.1	2184.6	2178.1	2161.8	2118.8	2081.4	2018.9	1995.4	1832.9
22.5°	2253.6	2254.4	2255.2	2243.0	2261.7	2247.9	2216.2	2170.8	2107.4	2080.6	1906.0
25°	2262.5	2264.2	2280.4	2307.2	2329.9	2355.1	2332.4	2287.7	2219.5	2191.1	2005.9
27.5°	2237.4	2243.9	2292.6	2338.1	2418.5	2450.9	2446.9	2444.4	2374.6	2346.2	2143.2
30°	2260.1	2260.1	2293.4	2371.4	2472.9	2558.1	2576.8	2628.8	2607.7	2587.4	2373.8
32.5°	2191.9	2204.1	2263.3	2372.2	2533.0	2657.2	2741.7	2886.2	2969.9	2952.8	2700.3
35°	2063.6	2079.8	2166.7	2333.2	2563.0	2774.2	2925.2	3203.8	3365.4	3385.7	3093.3
37.5°	1964.5	1978.3	2087.1	2272.3	2574.4	2883.8	3137.2	3561.1	3769.8	3759.3	3426.3
40°	1843.5	1867.9	1977.5	2200.0	2547.6	2977.2	3367.0	3889.2	4145.8	4097.1	3743.0
42.5°	1734.7	1755.8	1847.5	2084.7	2510.2	3030.0	3574.9	4227.0	4452.0	4413.0	4042.7
45°	1619.3	1638.0	1723.3	1946.6	2423.3	3056.0	3769.8	4550.2	4746.0	4702.1	4320.4
47.5°	1487.0	1512.1	1613.7	1816.7	2295.8	3039.7	3911.9	4831.2	5025.3	4992.8	4550.2
50°	1153.2	1179.2	1444.7	1694.9	2118.8	2972.3	4039.4	5112.2	5277.9	5247.0	4753.3
52.5°	1046.8	1058.2	1141.0	1555.2	1934.4	2839.1	4119.0	5343.7	5524.0	5493.1	4944.9
55°	981.8	990.0	1036.3	1270.1	1777.7	2624.7	4128.8	5584.1	5731.1	5690.4	5148.8
57.5°	915.2	924.2	975.3	1095.5	1620.2	2289.3	4025.6	5787.9	5899.2	5855.3	5343.7
60°	859.2	864.1	914.4	997.3	1442.3	1956.4	3760.1	5926.8	6054.3	5997.4	5534.5
62.5°	808.0	814.5	851.1	926.6	1292.9	1707.1	3389.7	5927.6	6139.5	6104.6	5631.2
65°	741.5	751.2	786.9	855.2	1171.9	1536.5	3006.4	5824.4	6155.0	6103.0	5626.3
67.5°	664.3	676.5	709.0	763.4	1011.1	1354.6	2472.1	5688.8	5853.7	5844.7	5394.0
70°	587.2	587.2	623.7	667.6	838.9	1159.7	1953.1	5205.6	5394.0	5407.8	4977.4
72.5°	495.4	497.0	525.4	563.6	675.7	951.8	1422.8	4450.4	5028.6	4861.3	4489.3
75°	415.8	414.2	443.4	475.1	549.8	749.6	928.2	3269.6	4595.7	4633.1	3950.9
77.5°	220.9	212.8	250.1	275.3	322.4	416.6	514.9	1639.6	3328.0	3401.1	3163.2
80°	62.5	63.3	165.7	185.2	212.0	206.3	238.8	625.3	1316.4	1483.7	1844.3
82.5°	37.4	43.0	94.2	110.4	82.8	53.6	91.0	347.6	681.4	763.4	915.2
85°	19.5	21.1	33.3	41.4	31.7	26.8	27.6	146.2	331.3	337.0	365.4
87.5°	8.9	8.9	12.2	13.0	8.1	4.9	3.2	2.4	2.4	1.6	1.6
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°	1635.6	1635.6	1635.6	1635.6	1635.6	1635.6	1635.6	1635.6	1635.6	1635.6	1635.6
2.5°	1612.0	1620.2	1606.4	1595.8	1587.7	1582.8	1577.1	1563.3	1567.4	1573.1	1572.2
5°	1620.2	1624.2	1599.9	1566.6	1535.7	1513.8	1499.2	1477.2	1477.2	1486.2	1486.2
7.5°	1627.5	1621.8	1572.2	1516.2	1481.3	1463.4	1439.9	1416.3	1412.3	1418.8	1419.6
10°	1631.5	1607.2	1538.1	1486.2	1440.7	1404.1	1374.1	1347.3	1346.5	1355.4	1357.0
12.5°	1649.4	1602.3	1535.7	1464.2	1396.0	1357.0	1321.3	1291.3	1280.7	1281.5	1283.1
15°	1677.0	1621.8	1532.4	1434.2	1360.3	1308.3	1256.3	1218.2	1208.4	1221.4	1226.3
17.5°	1710.3	1653.5	1517.0	1406.6	1316.4	1253.9	1201.9	1167.8	1137.0	1123.1	1120.7
20°	1754.2	1680.3	1525.1	1366.0	1274.2	1190.6	1125.6	1084.2	1058.2	1056.6	1054.9
22.5°	1811.8	1710.3	1526.8	1339.2	1207.6	1120.7	1040.3	1016.8	970.5	953.4	960.7
25°	1888.2	1755.8	1522.7	1310.7	1156.4	1039.5	942.9	899.8	882.8	863.3	864.9
27.5°	1986.4	1828.1	1533.3	1273.4	1072.8	940.4	832.4	786.1	760.1	743.9	746.3
30°	2186.2	1937.7	1532.4	1237.7	995.6	838.1	716.3	685.4	659.4	644.8	652.1
32.5°	2470.4	2175.6	1566.6	1189.7	907.9	700.8	618.8	583.9	562.0	545.7	549.8
35°	2822.1	2434.7	1654.3	1124.8	808.0	596.1	540.1	497.0	470.2	463.7	461.3
37.5°	3148.5	2663.7	1737.1	1081.7	693.5	538.4	467.8	424.7	401.2	409.3	409.3
40°	3440.1	2967.4	1830.5	1012.7	589.6	472.6	387.4	367.9	355.7	369.5	374.4
42.5°	3660.2	3259.0	1957.2	921.7	505.1	394.7	331.3	345.1	350.0	359.8	357.3
45°	3933.0	3425.5	2082.2	837.3	431.2	328.9	320.0	348.4	359.8	368.7	364.6
47.5°	4184.0	3554.6	2057.1	681.4	363.0	318.3	325.7	348.4	367.9	382.5	380.1
50°	4400.0	3716.2	2009.2	529.5	348.4	328.1	331.3	339.5	368.7	378.4	378.4
52.5°	4534.8	3876.2	1949.9	428.0	359.0	340.3	334.6	333.8	353.3	360.6	354.1
55°	4697.2	4041.9	1796.4	397.1	363.0	348.4	343.5	336.2	341.9	336.2	339.5
57.5°	4877.5	4205.1	1560.9	388.2	360.6	346.0	371.9	333.0	329.7	309.4	304.5
60°	5035.9	4269.3	1354.6	367.9	347.6	339.5	346.0	328.9	312.7	285.9	275.3
62.5°	5095.2	4263.6	1145.1	346.8	328.1	329.7	328.9	316.7	302.1	275.3	268.8
65°	5023.7	4133.6	928.2	321.6	312.7	319.2	311.0	293.2	268.8	246.9	241.2
67.5°	4781.7	3802.3	689.5	288.3	287.5	299.7	294.0	269.6	242.8	225.8	225.8
70°	4318.8	3394.6	446.7	239.6	257.4	278.6	278.6	252.6	217.6	203.0	207.1
72.5°	3812.0	2921.2	289.1	177.9	203.0	252.6	250.9	233.1	200.6	181.9	182.7
75°	3302.0	2317.8	186.8	122.6	131.6	215.2	222.5	190.0	155.9	133.2	129.1
77.5°	2510.2	1743.6	118.6	71.5	83.6	131.6	168.9	158.4	159.2	194.1	192.5
80°	1543.8	1050.9	86.1	34.9	41.4	86.1	136.4	151.1	212.0	139.7	128.3
82.5°	773.1	491.3	45.5	21.1	23.6	38.2	81.2	181.1	154.3	92.6	87.7
85°	289.1	132.4	13.8	10.6	13.0	19.5	33.3	165.7	98.3	73.9	72.3
87.5°	1.6	2.4	2.4	3.2	4.9	5.7	12.2	78.8	49.5	35.7	34.1
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)