

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: P233873

Luminaire Tested: **VERD-G-C028-D-U-T4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233873
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-C028-D-U-T4
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 885mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13384 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 103
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

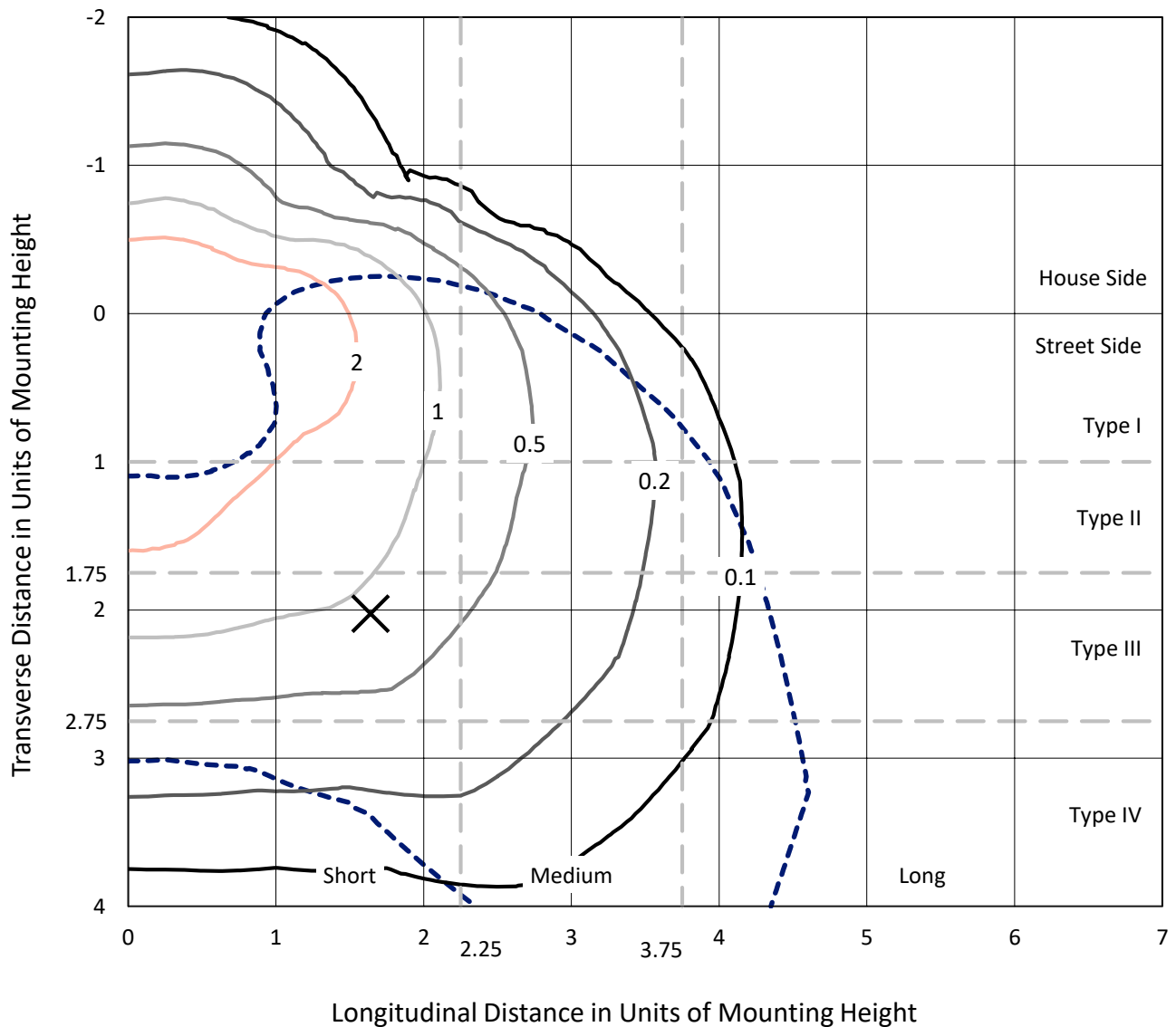


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

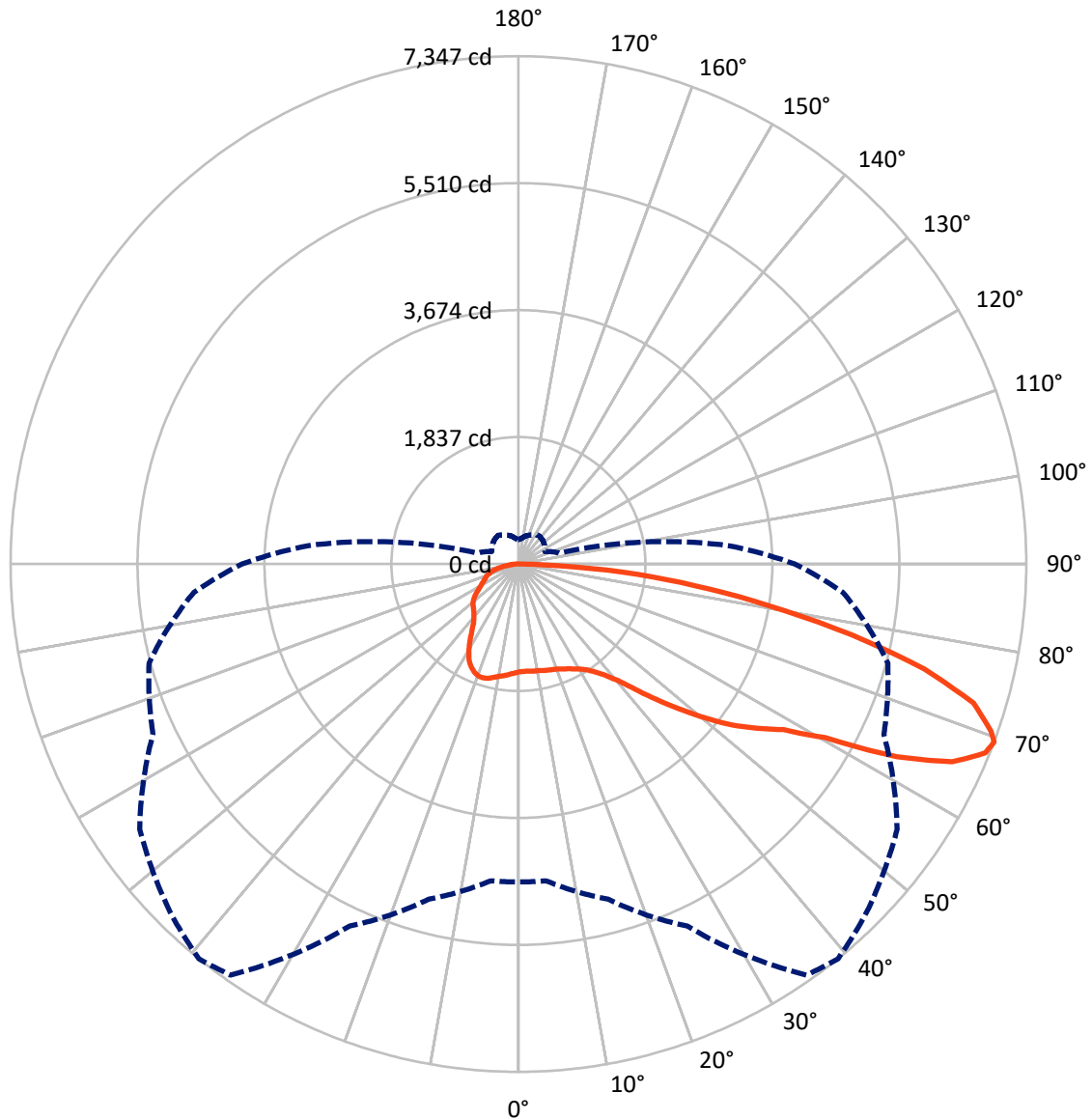


Based on 20 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3137.5	0.0	3137.5
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	10246.5	0.0	10246.5
	% Fixture	76.6	0.0	76.6
Total	Lumens	13384.0	0.0	13384.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.5	1.1
10°-20°	468.3	3.5
20°-30°	788.3	5.9
30°-40°	1142.0	8.5
40°-50°	1846.0	13.8
50°-60°	2702.5	20.2
60°-70°	3382.5	25.3
70°-80°	2418.1	18.1
80°-90°	484.8	3.6
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°	13384.0	100.0
0°-180°	13384.0	100.0



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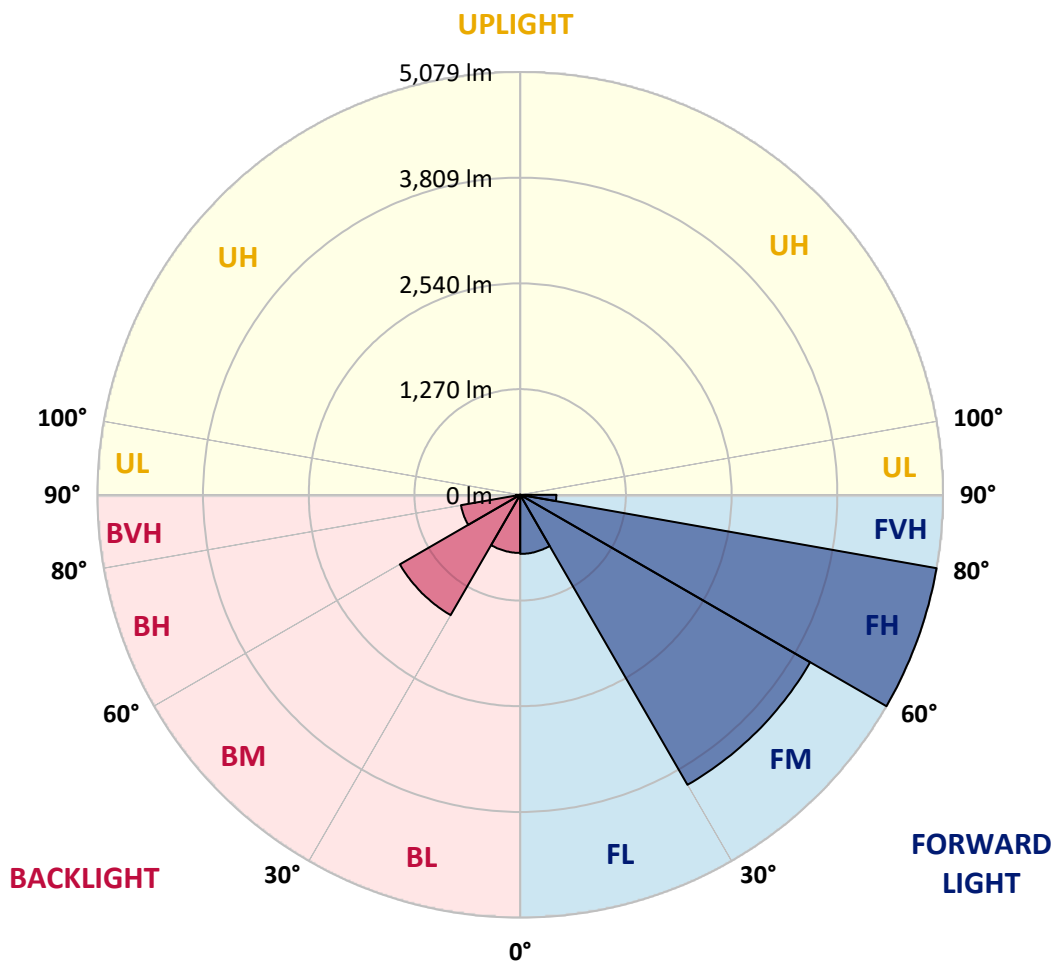
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	710.0	5.3			
FM	(30°-60°)	4022.1	30.1			
FH	(60°-80°)	5079.2	37.9			G3/7500
FVH	(80°-90°)	435.3	3.3			G3/500
BL	(0°-30°)	698.0	5.2	B2/1000		
BM	(30°-60°)	1668.4	12.5	B2/2500		
BH	(60°-80°)	721.5	5.4	B2/1000		G2/1000
BVH	(80°-90°)	49.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0
2.5°	1586.1	1583.6	1578.7	1559.0	1556.5	1555.3	1557.7	1550.3	1549.1	1551.6	1549.1
5°	1587.3	1584.9	1578.7	1561.4	1559.0	1556.5	1557.7	1551.6	1552.8	1559.0	1559.0
7.5°	1589.8	1587.3	1581.2	1562.7	1567.6	1565.1	1570.1	1561.4	1561.4	1566.4	1567.6
10°	1583.6	1582.4	1578.7	1565.1	1572.5	1567.6	1572.5	1573.8	1578.7	1582.4	1581.2
12.5°	1567.6	1567.6	1567.6	1561.4	1582.4	1581.2	1589.8	1598.4	1610.8	1616.9	1620.6
15°	1557.7	1556.5	1565.1	1563.9	1589.8	1593.5	1608.3	1630.5	1649.0	1665.0	1670.0
17.5°	1567.6	1567.6	1578.7	1576.2	1602.1	1604.6	1620.6	1652.7	1683.5	1714.4	1727.9
20°	1578.7	1579.9	1593.5	1597.2	1621.9	1620.6	1636.7	1676.1	1718.1	1763.7	1787.1
22.5°	1613.2	1612.0	1623.1	1615.7	1644.1	1649.0	1662.6	1697.1	1756.3	1814.3	1852.5
25°	1639.1	1642.8	1653.9	1649.0	1672.4	1678.6	1700.8	1734.1	1804.4	1873.5	1941.3
27.5°	1663.8	1671.2	1679.8	1678.6	1710.7	1718.1	1735.3	1787.1	1868.6	1951.2	2046.2
30°	1700.8	1698.3	1704.5	1715.6	1757.5	1762.5	1783.4	1846.4	1945.0	2052.3	2179.4
32.5°	1750.1	1747.7	1753.8	1763.7	1814.3	1826.6	1855.0	1922.8	2047.4	2176.9	2332.3
35°	1827.9	1834.0	1839.0	1851.3	1900.6	1917.9	1956.1	2042.5	2186.8	2394.0	2616.0
37.5°	2098.0	2084.4	2057.3	2007.9	2021.5	2041.2	2095.5	2218.8	2428.5	2780.0	2983.5
40°	2519.8	2503.7	2418.6	2274.3	2209.0	2213.9	2266.9	2434.7	2720.8	3233.9	3421.4
42.5°	2916.9	2897.2	2796.0	2616.0	2486.5	2471.7	2476.6	2670.2	3041.5	3687.8	3787.7
45°	3291.9	3301.7	3147.6	3009.4	2861.4	2793.6	2772.6	2916.9	3397.9	4081.2	4112.0
47.5°	3650.8	3658.2	3484.3	3351.1	3208.0	3129.1	3088.4	3200.6	3726.0	4399.4	4371.1
50°	4017.1	4036.8	3798.8	3685.3	3553.3	3496.6	3457.1	3531.1	4088.6	4704.1	4616.5
52.5°	4533.9	4451.2	4139.2	3978.8	3885.1	3867.8	3827.1	3887.6	4473.4	4972.9	4790.4
55°	5108.6	4932.2	4604.2	4324.2	4194.7	4194.7	4158.9	4229.2	4870.6	5174.0	4932.2
57.5°	5294.8	5312.1	5198.6	4894.0	4546.2	4519.1	4484.5	4580.7	5211.0	5354.0	4985.3
60°	5620.5	5668.6	5756.1	5502.1	5330.6	5100.0	4890.3	4942.1	5504.5	5502.1	5042.0
62.5°	5782.0	5827.7	6101.5	5964.6	6126.1	6142.2	5750.0	5350.3	5721.6	5576.1	5069.1
65°	5629.1	5661.2	6026.2	6206.3	6675.0	6898.2	6704.6	5899.2	5836.3	5545.2	4968.0
67.5°	5127.1	5187.5	5489.7	6038.6	7164.6	7289.2	7107.9	6652.8	5885.6	5555.1	4886.6
69°	4599.2	4600.5	5019.8	5780.8	7260.8	7347.2	7125.2	6688.6	5833.8	5531.7	4712.7
70°	4302.0	4332.8	4643.6	5557.6	7225.1	7253.4	7083.2	6687.3	5798.1	5524.3	4547.4
72.5°	3357.2	3341.2	3650.8	4647.3	6820.5	6883.4	6696.0	6498.6	5768.5	5206.0	3846.9
75°	2347.1	2396.4	2699.8	3521.3	5877.0	6065.7	6065.7	6243.3	5309.6	4448.8	2781.2
77.5°	1746.4	1753.8	1996.8	2690.0	4728.7	4924.8	5104.9	5254.1	4150.3	3047.7	1243.2
80°	1182.8	1193.9	1415.9	1984.5	3504.0	3684.1	3969.0	3615.0	2469.2	1054.5	141.8
82.5°	745.0	759.8	936.1	1393.7	2497.6	2579.0	2666.5	2041.2	822.7	122.1	90.0
85°	442.8	445.2	564.9	890.5	1523.2	1528.1	1434.4	939.8	220.8	72.8	56.7
87.5°	185.0	194.9	246.7	394.7	446.5	352.7	219.5	75.2	33.3	29.6	19.7
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°	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0
2.5°	1541.7	1555.3	1552.8	1556.5	1561.4	1571.3	1582.4	1577.5	1583.6	1597.2	1597.2
5°	1555.3	1566.4	1570.1	1577.5	1583.6	1593.5	1600.9	1598.4	1612.0	1631.7	1631.7
7.5°	1566.4	1575.0	1587.3	1596.0	1602.1	1621.9	1629.3	1624.3	1634.2	1657.6	1658.9
10°	1582.4	1591.0	1609.5	1618.2	1630.5	1640.4	1650.2	1649.0	1658.9	1679.8	1683.5
12.5°	1621.9	1628.0	1653.9	1666.3	1666.3	1678.6	1671.2	1658.9	1663.8	1676.1	1678.6
15°	1673.7	1682.3	1715.6	1721.8	1715.6	1718.1	1700.8	1661.3	1641.6	1645.3	1646.5
17.5°	1732.9	1747.7	1785.9	1777.3	1769.9	1751.4	1707.0	1647.8	1588.6	1566.4	1570.1
20°	1795.8	1814.3	1858.7	1840.2	1813.0	1764.9	1693.4	1592.3	1501.0	1448.0	1445.5
22.5°	1868.6	1892.0	1933.9	1901.9	1841.4	1757.5	1647.8	1524.4	1408.5	1325.9	1320.9
25°	1968.5	1994.4	2009.2	1945.0	1846.4	1730.4	1582.4	1431.9	1286.4	1187.7	1180.3
27.5°	2081.9	2095.5	2065.9	1969.7	1822.9	1672.4	1501.0	1314.8	1154.4	1073.0	1061.9
30°	2207.7	2196.6	2104.1	1957.4	1762.5	1581.2	1374.0	1165.5	1037.3	971.9	962.0
32.5°	2353.3	2318.7	2133.7	1922.8	1682.3	1461.5	1235.8	1070.6	968.2	902.8	897.9
35°	2592.5	2493.9	2181.8	1869.8	1576.2	1320.9	1108.8	989.2	909.0	827.6	815.3
37.5°	2939.1	2752.9	2252.1	1820.4	1461.5	1185.3	1012.6	923.8	853.5	762.2	745.0
40°	3299.3	3057.5	2368.1	1766.2	1354.2	1085.4	959.6	896.7	827.6	741.3	717.8
42.5°	3628.6	3347.4	2503.7	1698.3	1242.0	1005.2	933.7	889.3	820.2	738.8	720.3
45°	3927.0	3619.9	2643.1	1620.6	1118.7	941.1	912.7	875.7	805.4	727.7	712.9
47.5°	4178.6	3851.8	2783.7	1530.6	1000.3	901.6	890.5	851.0	785.7	710.4	698.1
50°	4387.1	4018.3	2863.9	1435.6	902.8	872.0	858.4	809.1	742.5	672.2	664.8
52.5°	4541.3	4121.9	2936.6	1385.1	826.4	823.9	815.3	767.2	703.0	630.3	615.5
55°	4648.6	4207.0	2904.6	1345.6	745.0	763.5	758.5	728.9	674.7	589.5	577.2
57.5°	4654.7	4214.4	2835.5	1111.3	664.8	690.7	699.3	704.3	643.8	568.6	553.8
60°	4648.6	4160.1	2707.2	815.3	587.1	617.9	650.0	650.0	608.1	534.0	522.9
62.5°	4620.2	4052.8	2408.8	580.9	525.4	566.1	608.1	589.5	553.8	494.6	483.5
65°	4490.7	3874.0	1884.6	473.6	499.5	536.5	556.2	530.3	484.7	423.0	418.1
67.5°	4255.1	3464.5	1090.3	434.1	477.3	510.6	526.6	487.2	444.0	384.8	382.3
69°	3996.1	3050.1	614.2	424.3	463.7	493.3	506.9	463.7	421.8	365.1	354.0
70°	3764.2	2680.1	399.6	415.6	450.2	482.2	492.1	447.7	408.2	350.3	342.9
72.5°	2851.5	1614.5	268.9	379.9	413.2	437.8	452.6	410.7	366.3	308.3	293.5
75°	1557.7	439.1	236.8	325.6	367.5	400.8	404.5	351.5	287.4	228.2	222.0
77.5°	303.4	150.5	203.5	268.9	292.3	331.8	329.3	293.5	249.1	193.6	186.2
80°	114.7	108.5	170.2	192.4	206.0	247.9	262.7	236.8	207.2	132.0	113.5
82.5°	77.7	80.2	127.0	113.5	125.8	146.8	185.0	180.1	164.0	90.0	80.2
85°	54.3	62.9	70.3	48.1	61.7	92.5	122.1	118.4	101.1	62.9	56.7
87.5°	16.0	17.3	19.7	24.7	38.2	69.1	99.9	82.6	55.5	46.9	40.7
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)