

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: P233581

Luminaire Tested: **VERD-C02H8-D-U-T4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233581
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-C02H8-D-U-T4-7030
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 960mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13382 lumens
Efficiency: N/A
Efficacy: 121.7 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

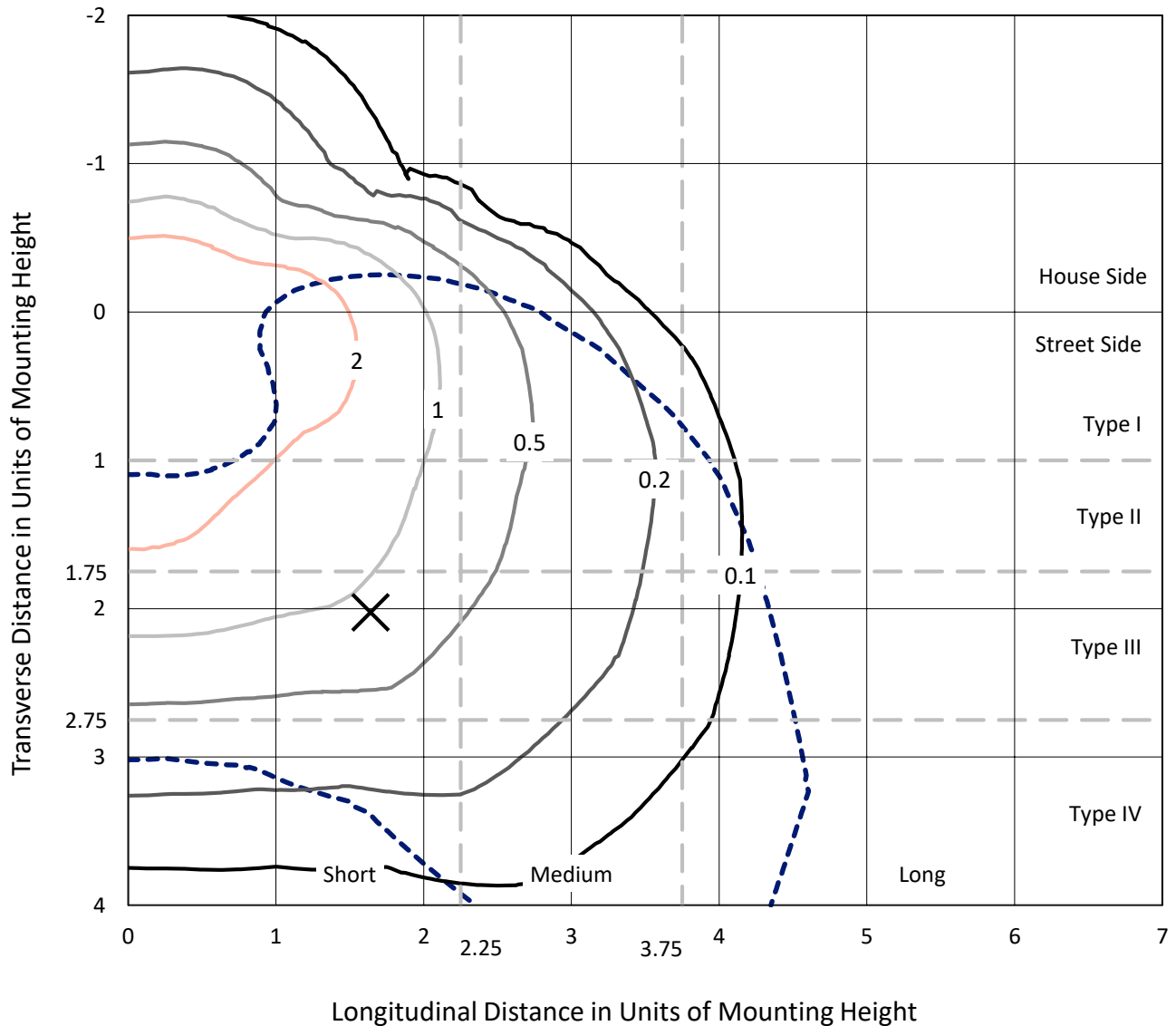
Input Watts (W): 110
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

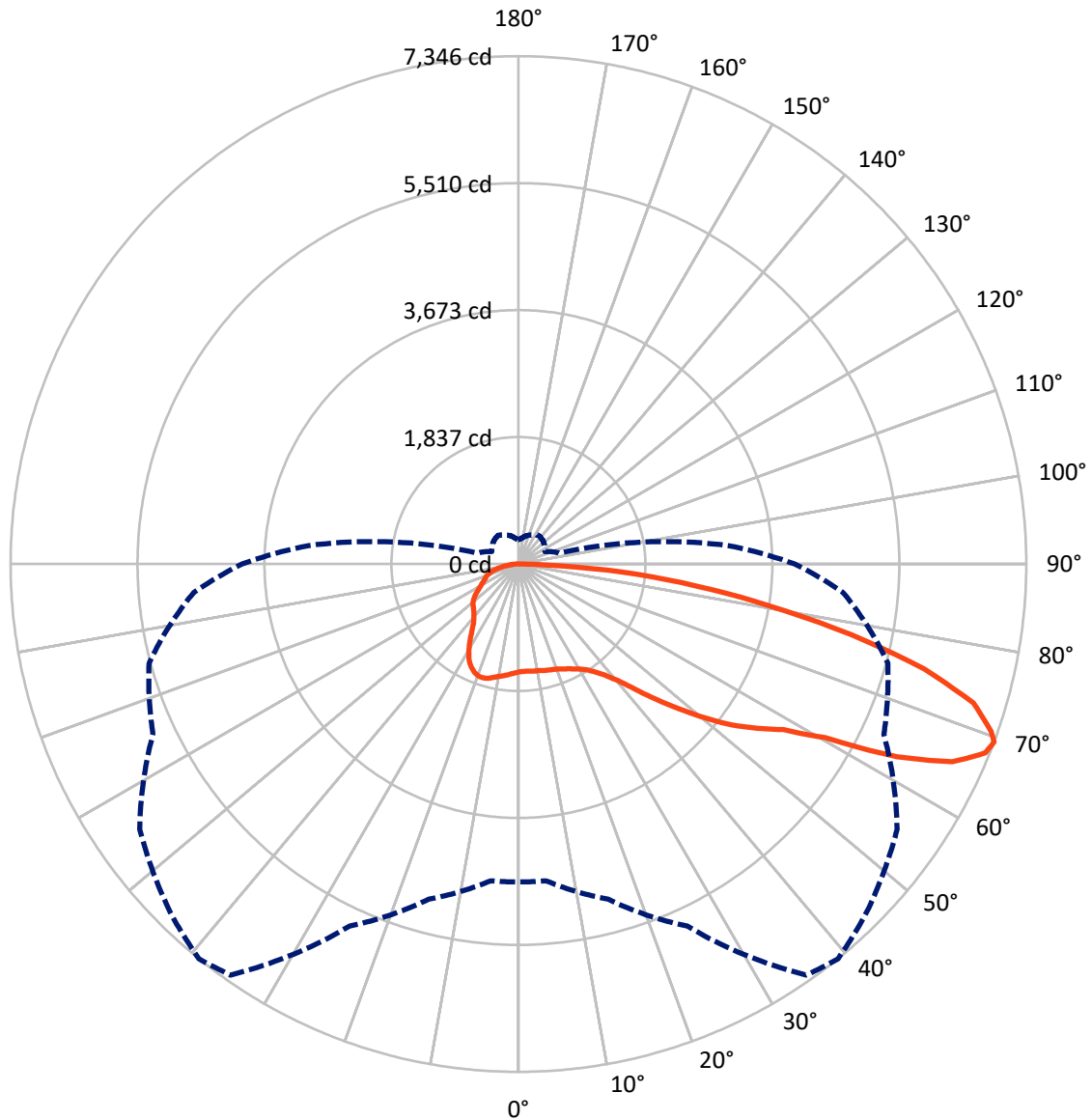


Based on 20 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - Non-Cutoff

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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	3137.0	0.0	3137.0
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	10245.0	0.0	10245.0
	% Fixture	76.6	0.0	76.6
Total	Lumens	13382.0	0.0	13382.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.5	1.1
10°-20°	468.2	3.5
20°-30°	788.2	5.9
30°-40°	1141.8	8.5
40°-50°	1845.7	13.8
50°-60°	2702.1	20.2
60°-70°	3382.0	25.3
70°-80°	2417.8	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°	13382.0	100.0
0°-180°	13382.0	100.0



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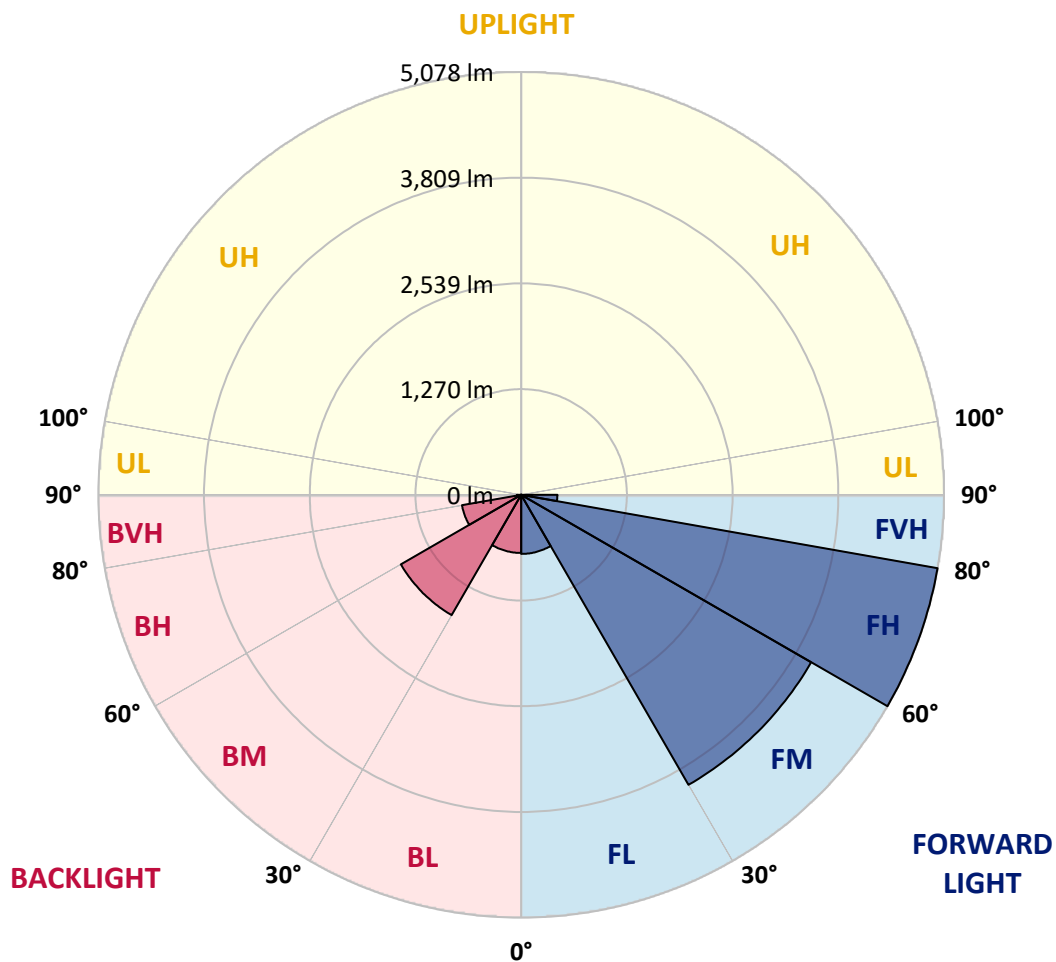
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	709.9	5.3			
FM	(30°-60°)	4021.5	30.1			
FH	(60°-80°)	5078.4	37.9			G3/7500
FVH	(80°-90°)	435.2	3.3			G3/500
BL	(0°-30°)	697.9	5.2	B2/1000		
BM	(30°-60°)	1668.2	12.5	B2/2500		
BH	(60°-80°)	721.4	5.4	B2/1000		G2/1000
BVH	(80°-90°)	49.5	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°	1558.7	1558.7	1558.7	1558.7	1558.7	1558.7	1558.7	1558.7	1558.7	1558.7	1558.7
2.5°	1585.9	1583.4	1578.5	1558.7	1556.3	1555.0	1557.5	1550.1	1548.9	1551.3	1548.9
5°	1587.1	1584.6	1578.5	1561.2	1558.7	1556.3	1557.5	1551.3	1552.6	1558.7	1558.7
7.5°	1589.6	1587.1	1580.9	1562.4	1567.4	1564.9	1569.8	1561.2	1561.2	1566.1	1567.4
10°	1583.4	1582.2	1578.5	1564.9	1572.3	1567.4	1572.3	1573.5	1578.5	1582.2	1580.9
12.5°	1567.4	1567.4	1567.4	1561.2	1582.2	1580.9	1589.6	1598.2	1610.5	1616.7	1620.4
15°	1557.5	1556.3	1564.9	1563.7	1589.6	1593.3	1608.1	1630.3	1648.8	1664.8	1669.7
17.5°	1567.4	1567.4	1578.5	1576.0	1601.9	1604.4	1620.4	1652.5	1683.3	1714.1	1727.7
20°	1578.5	1579.7	1593.3	1597.0	1621.6	1620.4	1636.4	1675.9	1717.8	1763.5	1786.9
22.5°	1613.0	1611.8	1622.9	1615.5	1643.8	1648.8	1662.3	1696.9	1756.1	1814.0	1852.2
25°	1638.9	1642.6	1653.7	1648.8	1672.2	1678.4	1700.6	1733.9	1804.1	1873.2	1941.0
27.5°	1663.6	1671.0	1679.6	1678.4	1710.4	1717.8	1735.1	1786.9	1868.3	1950.9	2045.9
30°	1700.6	1698.1	1704.3	1715.4	1757.3	1762.2	1783.2	1846.1	1944.7	2052.0	2179.0
32.5°	1749.9	1747.4	1753.6	1763.5	1814.0	1826.3	1854.7	1922.5	2047.1	2176.6	2331.9
35°	1827.6	1833.7	1838.7	1851.0	1900.3	1917.6	1955.8	2042.2	2186.4	2393.6	2615.6
37.5°	2097.6	2084.1	2056.9	2007.6	2021.2	2040.9	2095.2	2218.5	2428.1	2779.6	2983.1
40°	2519.4	2503.4	2418.3	2274.0	2208.6	2213.6	2266.6	2434.3	2720.4	3233.4	3420.8
42.5°	2916.5	2896.7	2795.6	2615.6	2486.1	2471.3	2476.2	2669.8	3041.0	3687.2	3787.1
45°	3291.4	3301.2	3147.1	3009.0	2861.0	2793.2	2772.2	2916.5	3397.4	4080.6	4111.4
47.5°	3650.2	3657.6	3483.7	3350.6	3207.5	3128.6	3087.9	3200.1	3725.4	4398.8	4370.4
50°	4016.5	4036.2	3798.2	3684.8	3552.8	3496.1	3456.6	3530.6	4088.0	4703.4	4615.8
52.5°	4533.2	4450.6	4138.6	3978.2	3884.5	3867.3	3826.6	3887.0	4472.8	4972.2	4789.7
55°	5107.8	4931.5	4603.5	4323.5	4194.1	4194.1	4158.3	4228.6	4869.8	5173.2	4931.5
57.5°	5294.1	5311.3	5197.9	4893.3	4545.5	4518.4	4483.9	4580.0	5210.2	5353.2	4984.5
60°	5619.6	5667.7	5755.3	5501.2	5329.8	5099.2	4889.6	4941.4	5503.7	5501.2	5041.3
62.5°	5781.2	5826.8	6100.6	5963.7	6125.2	6141.3	5749.1	5349.5	5720.7	5575.2	5068.4
65°	5628.2	5660.3	6025.3	6205.4	6674.0	6897.2	6703.6	5898.3	5835.4	5544.4	4967.3
67.5°	5126.3	5186.8	5488.9	6037.7	7163.6	7288.1	7106.8	6651.8	5884.7	5554.3	4885.9
69°	4598.5	4599.8	5019.1	5779.9	7259.7	7346.1	7124.1	6687.6	5833.0	5530.8	4712.0
70°	4301.3	4332.2	4642.9	5556.7	7224.0	7252.3	7082.2	6686.3	5797.2	5523.4	4546.7
72.5°	3356.7	3340.7	3650.2	4646.6	6819.5	6882.4	6694.9	6497.6	5767.6	5205.3	3846.3
75°	2346.7	2396.1	2699.4	3520.7	5876.1	6064.8	6064.8	6242.4	5308.9	4448.1	2780.8
77.5°	1746.2	1753.6	1996.5	2689.6	4728.0	4924.1	5104.1	5253.4	4149.7	3047.2	1243.0
80°	1182.6	1193.7	1415.7	1984.2	3503.5	3683.5	3968.4	3614.5	2468.8	1054.4	141.8
82.5°	744.8	759.6	936.0	1393.5	2497.2	2578.6	2666.1	2040.9	822.5	122.1	90.0
85°	442.7	445.2	564.8	890.4	1523.0	1527.9	1434.2	939.7	220.7	72.8	56.7
87.5°	185.0	194.8	246.6	394.6	446.4	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°	1558.7	1558.7	1558.7	1558.7	1558.7	1558.7	1558.7	1558.7	1558.7	1558.7	1558.7
2.5°	1541.5	1555.0	1552.6	1556.3	1561.2	1571.1	1582.2	1577.2	1583.4	1597.0	1597.0
5°	1555.0	1566.1	1569.8	1577.2	1583.4	1593.3	1600.7	1598.2	1611.8	1631.5	1631.5
7.5°	1566.1	1574.8	1587.1	1595.7	1601.9	1621.6	1629.0	1624.1	1634.0	1657.4	1658.6
10°	1582.2	1590.8	1609.3	1617.9	1630.3	1640.1	1650.0	1648.8	1658.6	1679.6	1683.3
12.5°	1621.6	1627.8	1653.7	1666.0	1666.0	1678.4	1671.0	1658.6	1663.6	1675.9	1678.4
15°	1673.4	1682.1	1715.4	1721.5	1715.4	1717.8	1700.6	1661.1	1641.4	1645.1	1646.3
17.5°	1732.6	1747.4	1785.6	1777.0	1769.6	1751.1	1706.7	1647.5	1588.3	1566.1	1569.8
20°	1795.5	1814.0	1858.4	1839.9	1812.8	1764.7	1693.2	1592.0	1500.8	1447.8	1445.3
22.5°	1868.3	1891.7	1933.6	1901.6	1841.1	1757.3	1647.5	1524.2	1408.3	1325.7	1320.7
25°	1968.2	1994.1	2008.9	1944.7	1846.1	1730.2	1582.2	1431.7	1286.2	1187.6	1180.2
27.5°	2081.6	2095.2	2065.6	1969.4	1822.6	1672.2	1500.8	1314.6	1154.3	1072.9	1061.8
30°	2207.4	2196.3	2103.8	1957.1	1762.2	1580.9	1373.8	1165.4	1037.1	971.7	961.9
32.5°	2352.9	2318.4	2133.4	1922.5	1682.1	1461.3	1235.6	1070.4	968.0	902.7	897.8
35°	2592.2	2493.5	2181.5	1869.5	1576.0	1320.7	1108.6	989.0	908.9	827.5	815.1
37.5°	2938.7	2752.5	2251.8	1820.2	1461.3	1185.1	1012.4	923.7	853.4	762.1	744.8
40°	3298.8	3057.1	2367.7	1765.9	1354.0	1085.2	959.4	896.5	827.5	741.1	717.7
42.5°	3628.0	3346.9	2503.4	1698.1	1241.8	1005.0	933.5	889.1	820.1	738.7	720.2
45°	3926.5	3619.4	2642.7	1620.4	1118.5	940.9	912.6	875.6	805.3	727.6	712.8
47.5°	4178.0	3851.2	2783.3	1530.4	1000.1	901.5	890.4	850.9	785.5	710.3	698.0
50°	4386.4	4017.7	2863.5	1435.4	902.7	871.9	858.3	809.0	742.4	672.1	664.7
52.5°	4540.6	4121.3	2936.2	1384.9	826.2	823.8	815.1	767.0	702.9	630.2	615.4
55°	4647.9	4206.4	2904.1	1345.4	744.8	763.3	758.4	728.8	674.6	589.5	577.1
57.5°	4654.0	4213.8	2835.1	1111.1	664.7	690.6	699.2	704.1	643.7	568.5	553.7
60°	4647.9	4159.5	2706.8	815.1	587.0	617.8	649.9	649.9	608.0	534.0	522.9
62.5°	4619.5	4052.2	2408.4	580.8	525.3	566.0	608.0	589.5	553.7	494.5	483.4
65°	4490.0	3873.4	1884.3	473.5	499.4	536.4	556.2	530.3	484.6	423.0	418.0
67.5°	4254.5	3464.0	1090.1	434.1	477.2	510.5	526.6	487.1	443.9	384.8	382.3
69°	3995.5	3049.7	614.1	424.2	463.7	493.3	506.8	463.7	421.7	365.0	353.9
70°	3763.7	2679.7	399.6	415.6	450.1	482.2	492.0	447.6	408.2	350.2	342.8
72.5°	2851.1	1614.2	268.8	379.8	413.1	437.8	452.6	410.6	366.3	308.3	293.5
75°	1557.5	439.0	236.8	325.6	367.5	400.8	404.5	351.5	287.3	228.1	222.0
77.5°	303.4	150.4	203.5	268.8	292.3	331.7	329.3	293.5	249.1	193.6	186.2
80°	114.7	108.5	170.2	192.4	205.9	247.9	262.7	236.8	207.2	132.0	113.5
82.5°	77.7	80.2	127.0	113.5	125.8	146.7	185.0	180.0	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)