

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: P233568

Luminaire Tested: **VERD-C02H8-D-U-T4-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233568
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-T4-8027
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 960mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12114 lumens
Efficiency: N/A
Efficacy: 110.1 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

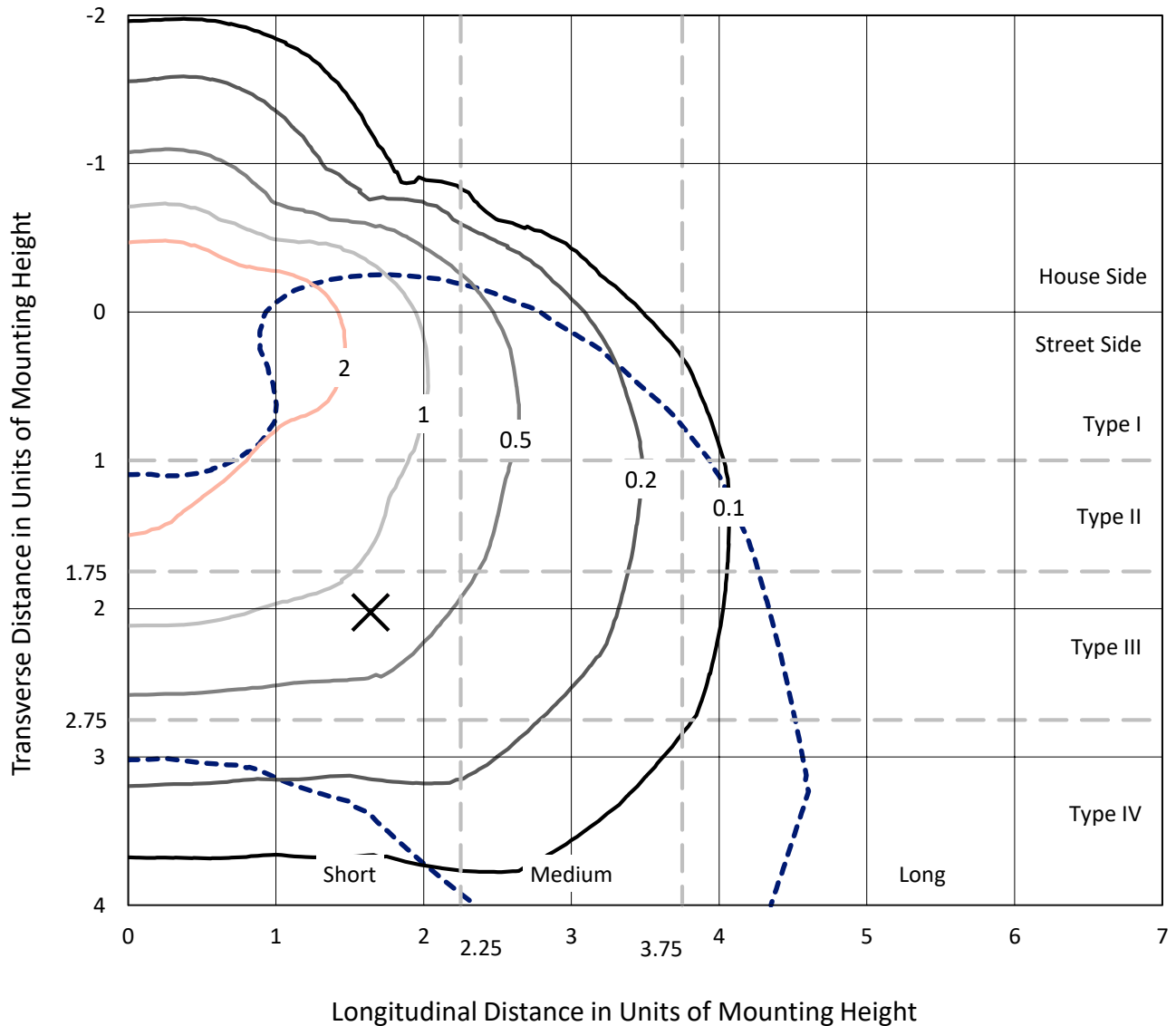
Input Watts (W): 110
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

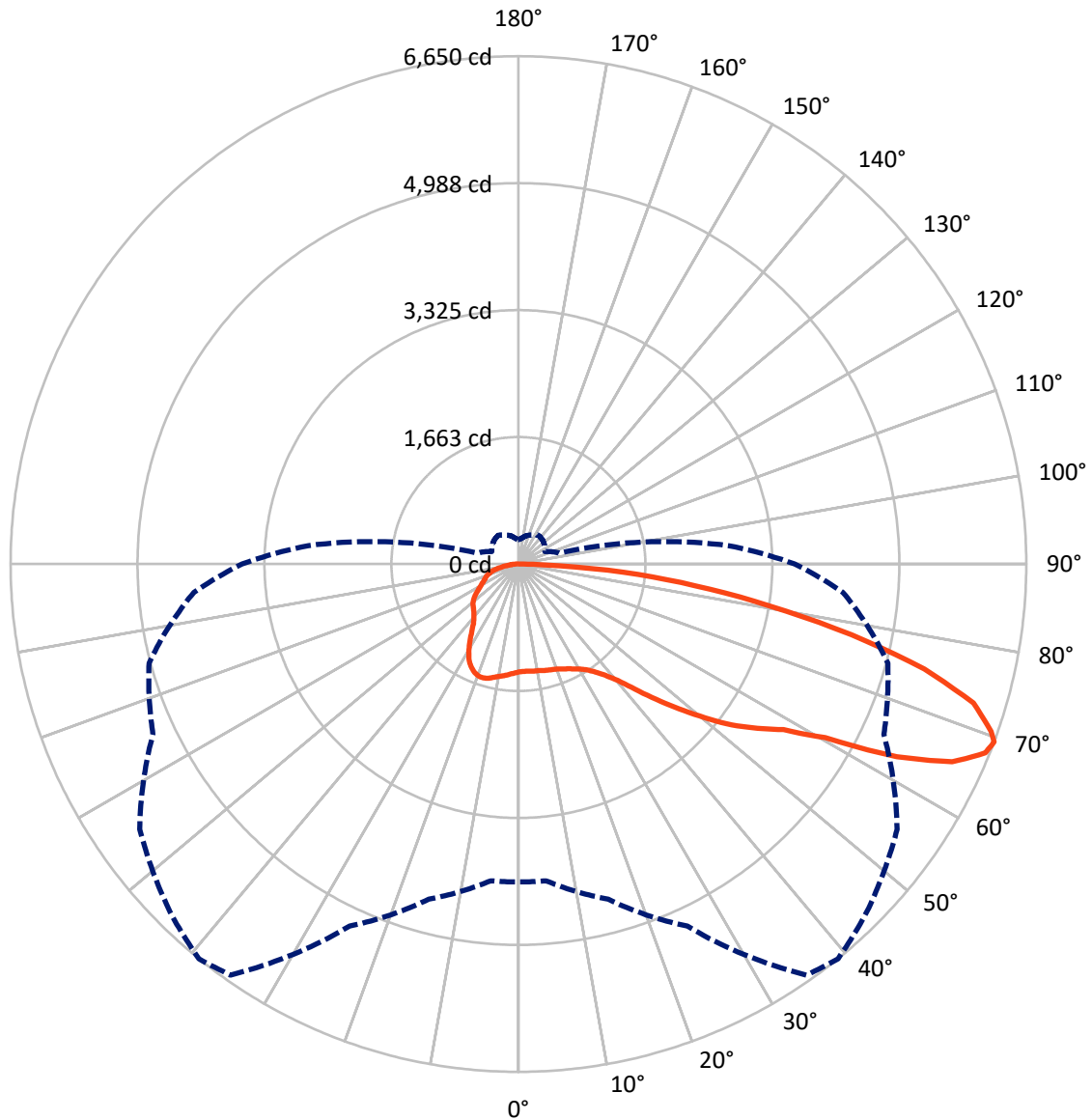


Based on 20 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - Non-Cutoff

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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	2839.7	0.0	2839.7
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	9274.3	0.0	9274.3
	% Fixture	76.6	0.0	76.6
Total	Lumens	12114.0	0.0	12114.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.1	1.1
10°-20°	423.8	3.5
20°-30°	713.5	5.9
30°-40°	1033.6	8.5
40°-50°	1670.8	13.8
50°-60°	2446.1	20.2
60°-70°	3061.6	25.3
70°-80°	2188.7	18.1
80°-90°	438.8	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°	12114.0	100.0
0°-180°	12114.0	100.0



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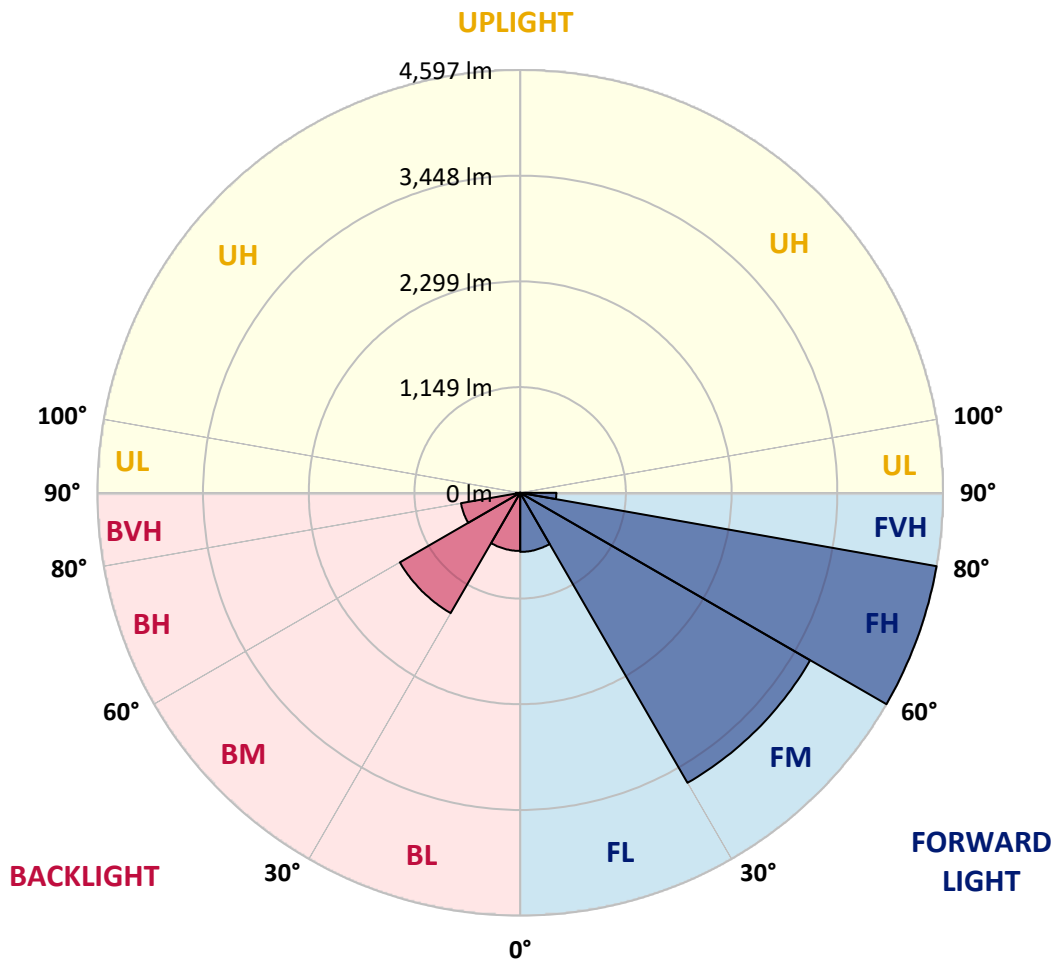
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	642.7	5.3			
FM	(30°-60°)	3640.4	30.1			
FH	(60°-80°)	4597.2	37.9			G2/5000
FVH	(80°-90°)	394.0	3.3			G3/500
BL	(0°-30°)	631.7	5.2	B2/1000		
BM	(30°-60°)	1510.1	12.5	B2/2500		
BH	(60°-80°)	653.1	5.4	B2/1000		G2/1000
BVH	(80°-90°)	44.8	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°	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0
2.5°	1435.6	1433.4	1428.9	1411.0	1408.8	1407.7	1409.9	1403.2	1402.1	1404.3	1402.1
5°	1436.7	1434.5	1428.9	1413.3	1411.0	1408.8	1409.9	1404.3	1405.5	1411.0	1411.0
7.5°	1439.0	1436.7	1431.1	1414.4	1418.9	1416.6	1421.1	1413.3	1413.3	1417.7	1418.9
10°	1433.4	1432.3	1428.9	1416.6	1423.3	1418.9	1423.3	1424.4	1428.9	1432.3	1431.1
12.5°	1418.9	1418.9	1418.9	1413.3	1432.3	1431.1	1439.0	1446.8	1457.9	1463.5	1466.9
15°	1409.9	1408.8	1416.6	1415.5	1439.0	1442.3	1455.7	1475.8	1492.5	1507.1	1511.5
17.5°	1418.9	1418.9	1428.9	1426.7	1450.1	1452.4	1466.9	1495.9	1523.8	1551.7	1564.0
20°	1428.9	1430.0	1442.3	1445.7	1468.0	1466.9	1481.4	1517.1	1555.1	1596.4	1617.6
22.5°	1460.2	1459.0	1469.1	1462.4	1488.1	1492.5	1504.8	1536.1	1589.7	1642.1	1676.7
25°	1483.6	1487.0	1497.0	1492.5	1513.7	1519.3	1539.4	1569.6	1633.2	1695.7	1757.1
27.5°	1505.9	1512.6	1520.4	1519.3	1548.4	1555.1	1570.7	1617.6	1691.2	1766.0	1852.0
30°	1539.4	1537.2	1542.8	1552.8	1590.8	1595.2	1614.2	1671.2	1760.5	1857.6	1972.6
32.5°	1584.1	1581.8	1587.4	1596.4	1642.1	1653.3	1679.0	1740.4	1853.1	1970.3	2111.0
35°	1654.4	1660.0	1664.5	1675.6	1720.3	1735.9	1770.5	1848.6	1979.3	2166.8	2367.7
37.5°	1898.9	1886.6	1862.0	1817.4	1829.7	1847.5	1896.7	2008.3	2198.1	2516.2	2700.4
40°	2280.7	2266.2	2189.1	2058.5	1999.4	2003.8	2051.8	2203.6	2462.6	2927.0	3096.7
42.5°	2640.1	2622.3	2530.7	2367.7	2250.5	2237.1	2241.6	2416.9	2752.9	3337.8	3428.3
45°	2979.5	2988.4	2848.9	2723.9	2589.9	2528.5	2509.5	2640.1	3075.5	3693.9	3721.9
47.5°	3304.3	3311.0	3153.6	3033.1	2903.6	2832.1	2795.3	2896.9	3372.4	3982.0	3956.3
50°	3635.9	3653.8	3438.3	3335.6	3216.2	3164.8	3129.1	3196.1	3700.6	4257.7	4178.4
52.5°	4103.6	4028.8	3746.4	3601.3	3516.5	3500.8	3464.0	3518.7	4048.9	4501.1	4335.8
55°	4623.9	4464.2	4167.3	3913.9	3796.7	3796.7	3764.3	3827.9	4408.4	4683.0	4464.2
57.5°	4792.4	4808.0	4705.3	4429.6	4114.8	4090.2	4059.0	4146.1	4716.5	4846.0	4512.2
60°	5087.1	5130.7	5209.9	4980.0	4824.8	4616.0	4426.3	4473.1	4982.2	4980.0	4563.6
62.5°	5233.4	5274.7	5522.5	5398.6	5544.8	5559.3	5204.3	4842.7	5178.7	5046.9	4588.1
65°	5094.9	5124.0	5454.4	5617.4	6041.6	6243.7	6068.4	5339.4	5282.5	5019.0	4496.6
67.5°	4640.6	4695.3	4968.8	5465.6	6484.8	6597.5	6433.4	6021.5	5327.1	5028.0	4422.9
69°	4162.8	4163.9	4543.5	5232.3	6571.9	6650.0	6449.1	6053.9	5280.3	5006.8	4265.5
70°	3893.8	3921.7	4203.0	5030.2	6539.5	6565.2	6411.1	6052.8	5247.9	5000.1	4115.9
72.5°	3038.7	3024.1	3304.3	4206.3	6173.3	6230.3	6060.6	5882.0	5221.1	4712.0	3481.8
75°	2124.4	2169.0	2443.7	3187.1	5319.3	5490.1	5490.1	5650.9	4805.8	4026.6	2517.3
77.5°	1580.7	1587.4	1807.3	2434.7	4280.0	4457.5	4620.5	4755.6	3756.5	2758.5	1125.3
80°	1070.6	1080.6	1281.6	1796.2	3171.5	3334.5	3592.4	3272.0	2234.9	954.5	128.4
82.5°	674.3	687.7	847.3	1261.5	2260.6	2334.3	2413.5	1847.5	744.6	110.5	81.5
85°	400.8	403.0	511.3	806.0	1378.7	1383.1	1298.3	850.6	199.8	65.9	51.4
87.5°	167.5	176.4	223.3	357.2	404.1	319.3	198.7	68.1	30.1	26.8	17.9
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°	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0	1411.0
2.5°	1395.4	1407.7	1405.5	1408.8	1413.3	1422.2	1432.3	1427.8	1433.4	1445.7	1445.7
5°	1407.7	1417.7	1421.1	1427.8	1433.4	1442.3	1449.0	1446.8	1459.0	1476.9	1476.9
7.5°	1417.7	1425.6	1436.7	1444.5	1450.1	1468.0	1474.7	1470.2	1479.1	1500.4	1501.5
10°	1432.3	1440.1	1456.8	1464.6	1475.8	1484.7	1493.7	1492.5	1501.5	1520.4	1523.8
12.5°	1468.0	1473.6	1497.0	1508.2	1508.2	1519.3	1512.6	1501.5	1505.9	1517.1	1519.3
15°	1514.9	1522.7	1552.8	1558.4	1552.8	1555.1	1539.4	1503.7	1485.8	1489.2	1490.3
17.5°	1568.4	1581.8	1616.5	1608.6	1601.9	1585.2	1545.0	1491.4	1437.8	1417.7	1421.1
20°	1625.4	1642.1	1682.3	1665.6	1641.0	1597.5	1532.7	1441.2	1358.6	1310.6	1308.3
22.5°	1691.2	1712.5	1750.4	1721.4	1666.7	1590.8	1491.4	1379.8	1274.9	1200.1	1195.6
25°	1781.7	1805.1	1818.5	1760.5	1671.2	1566.2	1432.3	1296.1	1164.3	1075.0	1068.3
27.5°	1884.4	1896.7	1869.9	1782.8	1649.9	1513.7	1358.6	1190.0	1044.9	971.2	961.2
30°	1998.2	1988.2	1904.5	1771.6	1595.2	1431.1	1243.6	1054.9	938.8	879.7	870.7
32.5°	2130.0	2098.7	1931.3	1740.4	1522.7	1322.9	1118.6	969.0	876.3	817.2	812.7
35°	2346.5	2257.2	1974.8	1692.4	1426.7	1195.6	1003.6	895.3	822.7	749.1	737.9
37.5°	2660.2	2491.7	2038.4	1647.7	1322.9	1072.8	916.5	836.1	772.5	689.9	674.3
40°	2986.2	2767.4	2143.4	1598.6	1225.7	982.4	868.5	811.6	749.1	670.9	649.7
42.5°	3284.3	3029.7	2266.2	1537.2	1124.1	909.8	845.1	804.9	742.4	668.7	651.9
45°	3554.4	3276.4	2392.3	1466.9	1012.5	851.8	826.1	792.6	729.0	658.6	645.2
47.5°	3782.1	3486.3	2519.6	1385.4	905.3	816.0	806.0	770.3	711.1	643.0	631.8
50°	3970.8	3637.0	2592.1	1299.4	817.2	789.2	777.0	732.3	672.0	608.4	601.7
52.5°	4110.3	3730.8	2658.0	1253.6	747.9	745.7	737.9	694.4	636.3	570.4	557.1
55°	4207.5	3807.8	2629.0	1217.9	674.3	691.0	686.5	659.8	610.6	533.6	522.4
57.5°	4213.0	3814.5	2566.5	1005.8	601.7	625.1	633.0	637.4	582.7	514.6	501.2
60°	4207.5	3765.4	2450.4	737.9	531.4	559.3	588.3	588.3	550.4	483.4	473.3
62.5°	4181.8	3668.3	2180.2	525.8	475.6	512.4	550.4	533.6	501.2	447.6	437.6
65°	4064.6	3506.4	1705.8	428.7	452.1	485.6	503.5	480.0	438.7	382.9	378.4
67.5°	3851.4	3135.8	986.8	392.9	432.0	462.2	476.7	441.0	401.9	348.3	346.1
69°	3616.9	2760.7	555.9	384.0	419.7	446.5	458.8	419.7	381.8	330.4	320.4
70°	3407.1	2425.8	361.7	376.2	407.5	436.5	445.4	405.2	369.5	317.0	310.3
72.5°	2581.0	1461.3	243.4	343.8	374.0	396.3	409.7	371.7	331.6	279.1	265.7
75°	1409.9	397.4	214.3	294.7	332.7	362.8	366.2	318.2	260.1	206.5	200.9
77.5°	274.6	136.2	184.2	243.4	264.6	300.3	298.1	265.7	225.5	175.3	168.6
80°	103.8	98.2	154.1	174.1	186.4	224.4	237.8	214.3	187.5	119.4	102.7
82.5°	70.3	72.6	115.0	102.7	113.9	132.8	167.5	163.0	148.5	81.5	72.6
85°	49.1	56.9	63.6	43.5	55.8	83.7	110.5	107.2	91.5	56.9	51.4
87.5°	14.5	15.6	17.9	22.3	34.6	62.5	90.4	74.8	50.2	42.4	36.8
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)