

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: P509351

Luminaire Tested: **VERD-CA2-80-727-U-T3**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509351
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-80-727-U-T3
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1100mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9848 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

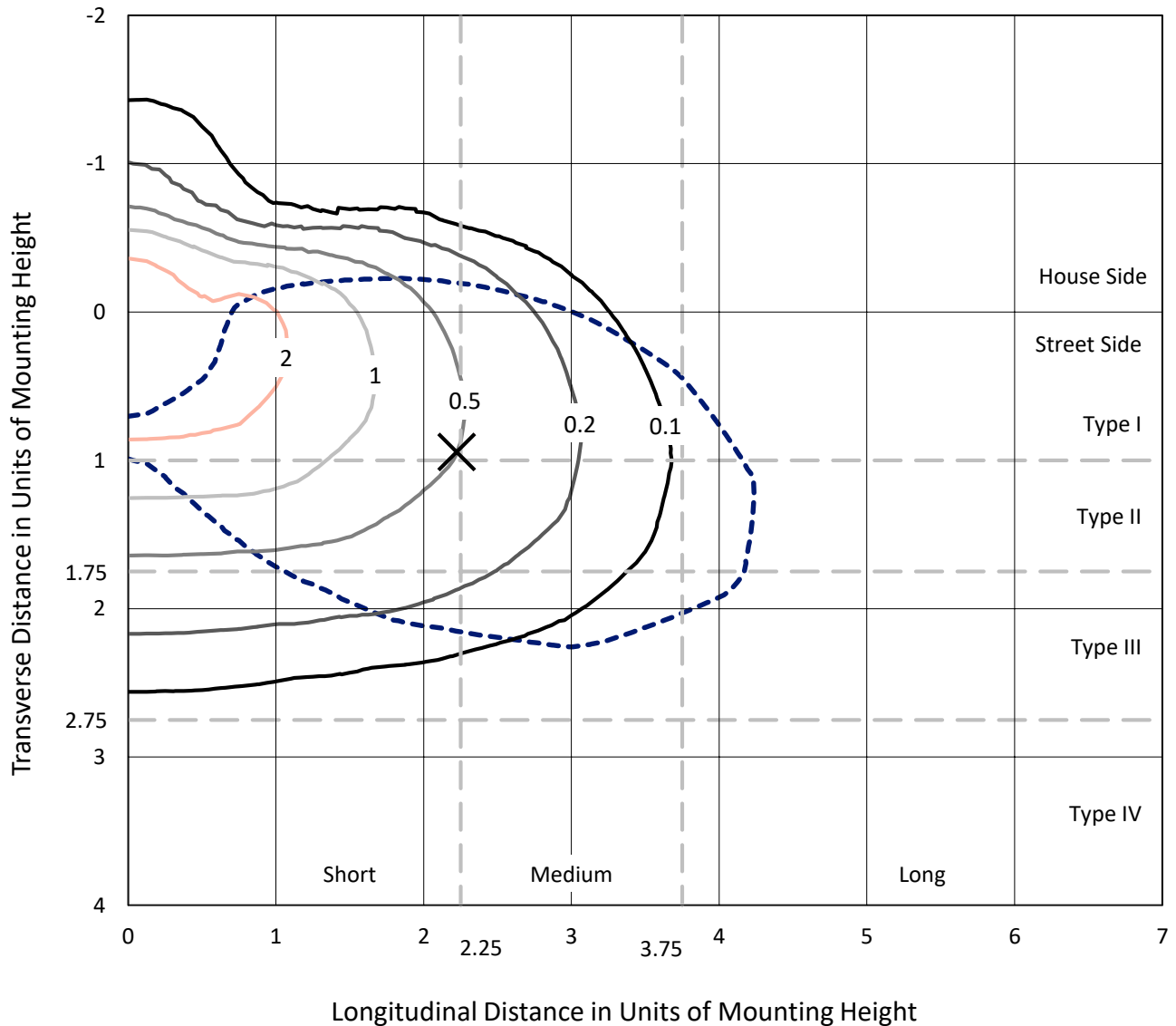
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

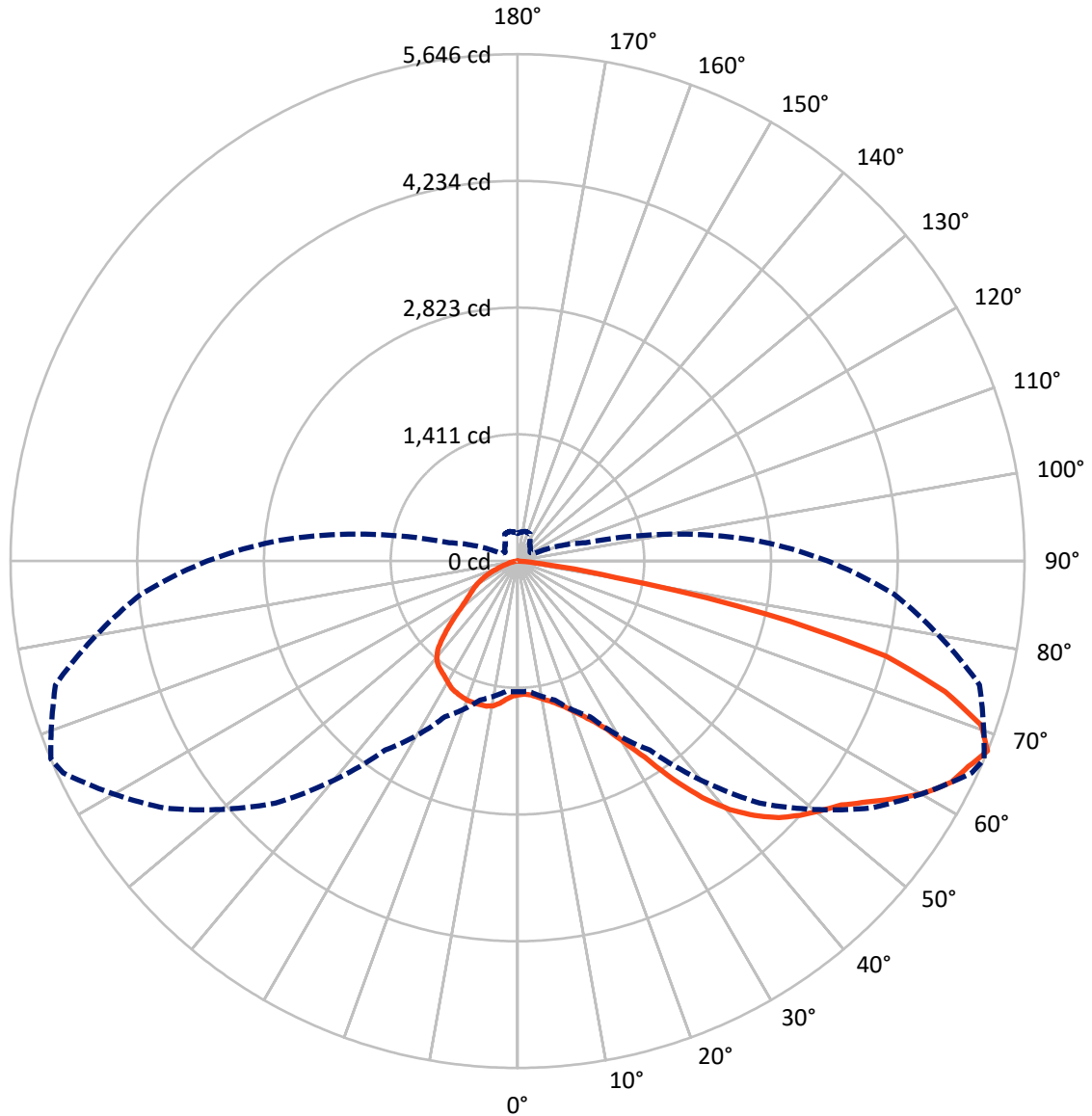
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2251.8	0.0	2251.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	7596.2	0.0	7596.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	9848.0	0.0	9848.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.9	1.5
10°-20°	482.9	4.9
20°-30°	834.4	8.5
30°-40°	1266.5	12.9
40°-50°	1720.9	17.5
50°-60°	2046.7	20.8
60°-70°	2105.8	21.4
70°-80°	1148.7	11.7
80°-90°	91.3	0.9
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°	9848.0	100.0
0°-180°	9848.0	100.0

Coefficient of Utilization



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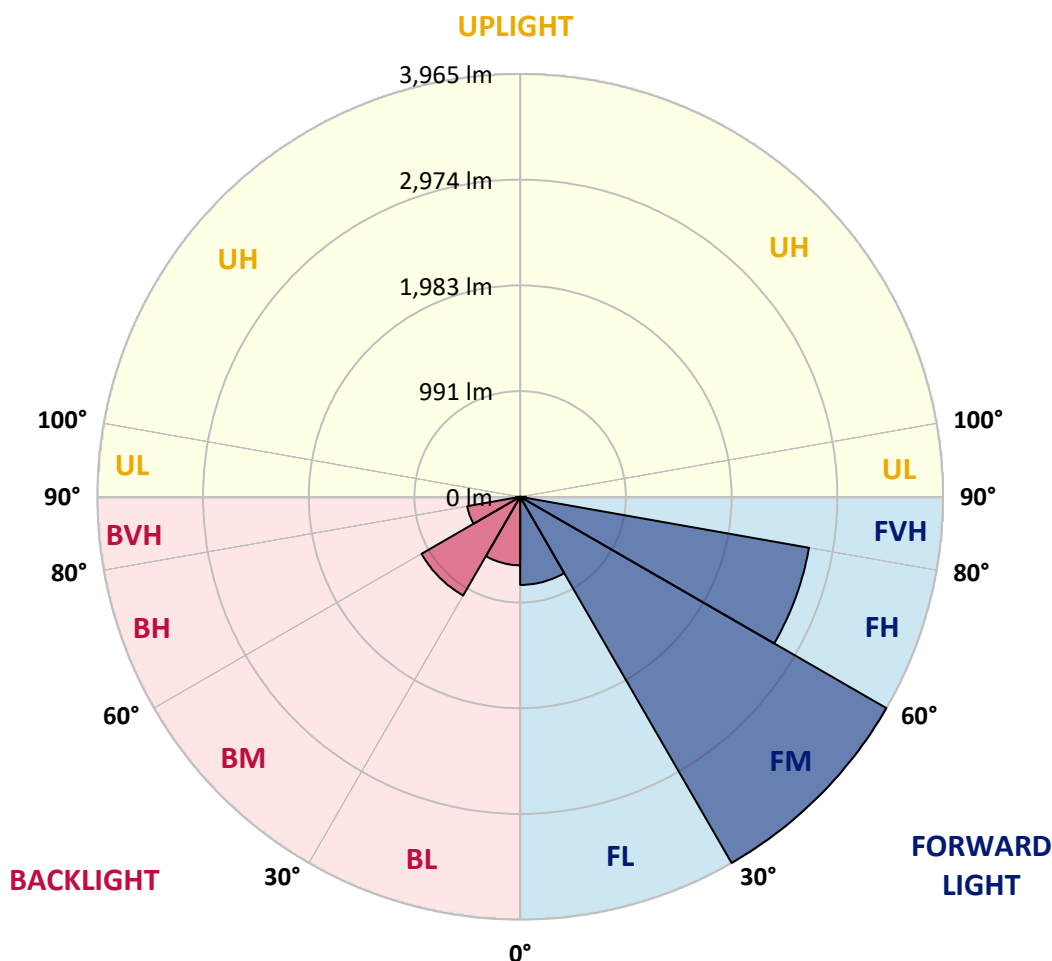
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	826.0	8.4			
FM (30°-60°)	3965.2	40.3			
FH (60°-80°)	2750.3	27.9			G2/5000
FVH (80°-90°)	54.6	0.6			G1/100
BL (0°-30°)	642.1	6.5	B2/1000		
BM (30°-60°)	1068.9	10.9	B2/2500		
BH (60°-80°)	504.2	5.1	B2/1000		G2/1000
BVH (80°-90°)	36.6	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1489.8	1489.8	1489.8	1489.8	1489.8	1489.8	1489.8	1489.8	1489.8	1489.8	1489.8
2.5°	1498.4	1492.0	1483.4	1486.6	1480.2	1490.9	1486.6	1484.5	1484.5	1485.6	1490.9
5°	1532.5	1526.1	1519.7	1518.6	1505.8	1510.1	1503.7	1497.3	1497.3	1496.2	1498.4
7.5°	1592.2	1583.7	1576.2	1575.2	1559.2	1557.0	1537.8	1525.0	1525.0	1524.0	1527.2
10°	1671.1	1667.9	1653.0	1643.4	1624.2	1611.4	1588.0	1567.7	1563.4	1557.0	1565.6
12.5°	1746.9	1745.8	1731.9	1721.3	1694.6	1672.2	1633.8	1606.1	1600.8	1593.3	1599.7
15°	1841.8	1832.2	1817.2	1810.8	1772.5	1738.3	1694.6	1653.0	1647.7	1639.1	1644.5
17.5°	1946.3	1941.0	1917.5	1910.0	1862.0	1822.6	1768.2	1714.9	1706.3	1694.6	1693.5
20°	2072.1	2062.5	2044.4	2023.1	1976.1	1919.6	1856.7	1795.9	1788.4	1778.9	1758.6
22.5°	2207.6	2196.9	2178.8	2156.4	2096.7	2036.9	1958.0	1881.2	1877.0	1870.6	1833.2
25°	2336.6	2318.5	2320.6	2299.3	2246.0	2170.2	2077.5	1985.7	1983.6	1982.5	1922.8
27.5°	2474.2	2455.0	2448.6	2441.1	2391.0	2319.5	2215.0	2127.6	2120.1	2121.2	2030.5
30°	2603.2	2594.7	2589.4	2584.0	2559.5	2495.5	2395.3	2317.4	2340.9	2338.7	2214.0
32.5°	2703.5	2697.1	2719.5	2745.1	2738.7	2685.3	2616.0	2580.8	2604.3	2680.0	2571.2
35°	2792.0	2788.8	2831.4	2885.8	2924.2	2885.8	2878.4	2932.8	2987.1	3113.0	3050.1
37.5°	2888.0	2883.7	2920.0	3012.7	3079.9	3091.7	3148.2	3287.9	3340.1	3466.0	3333.7
40°	2886.9	2892.2	2979.7	3098.1	3220.7	3319.9	3436.1	3571.6	3638.8	3698.5	3493.7
42.5°	2840.0	2843.2	2953.0	3178.0	3356.1	3551.3	3654.7	3828.6	3874.4	3886.2	3682.5
45°	2792.0	2794.1	2913.6	3166.3	3469.2	3767.8	3883.0	4041.9	4077.1	4036.5	3810.5
47.5°	2722.7	2736.5	2865.6	3154.6	3566.2	3967.2	4060.0	4217.8	4231.7	4180.5	3917.1
50°	2640.5	2648.0	2796.3	3116.2	3630.2	4090.9	4200.8	4343.7	4370.3	4312.8	4049.3
52.5°	2540.3	2546.7	2707.7	3065.0	3665.4	4185.8	4308.5	4479.1	4515.4	4489.8	4165.6
55°	2425.1	2428.3	2592.6	2981.8	3655.8	4227.4	4402.3	4671.1	4731.9	4668.9	4262.6
57.5°	2281.2	2292.9	2479.5	2857.0	3583.3	4279.7	4571.9	4907.8	4985.7	4851.3	4335.1
60°	2132.9	2144.6	2314.2	2712.0	3461.7	4303.2	4746.8	5162.7	5231.0	5024.1	4379.9
62.5°	1966.5	1982.5	2123.3	2493.4	3244.2	4272.2	4875.8	5385.6	5424.0	5127.5	4368.2
65°	1724.5	1733.0	1886.6	2230.0	2960.5	4111.2	4870.5	5505.1	5517.8	5241.6	4317.0
67.5°	1455.7	1456.8	1601.8	1912.2	2570.2	3810.5	4795.9	5582.9	5645.8	5325.9	4205.0
70°	1107.0	1121.9	1235.0	1465.3	2100.9	3296.4	4549.5	5506.1	5476.3	5095.5	3884.0
72.5°	790.2	781.7	839.3	995.0	1470.6	2543.5	3922.4	4975.0	4981.4	4641.2	3379.6
75°	420.2	422.3	471.4	602.5	750.8	1655.1	3137.5	4202.9	4241.3	3980.0	2644.8
77.5°	93.8	106.6	162.1	230.4	326.3	530.0	1702.1	2756.8	2829.3	2619.2	1449.3
80°	72.5	73.6	106.6	131.2	144.0	253.8	540.7	1000.3	1110.2	1048.3	545.0
82.5°	48.0	49.1	70.4	72.5	69.3	116.2	245.3	299.7	329.5	287.9	202.6
85°	25.6	26.7	32.0	35.2	27.7	34.1	32.0	25.6	26.7	23.5	23.5
87.5°	5.3	3.2	4.3	3.2	3.2	2.1	3.2	3.2	3.2	3.2	3.2
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°	1489.8	1489.8	1489.8	1489.8	1489.8	1489.8	1489.8	1489.8	1489.8	1489.8	1489.8
2.5°	1490.9	1493.0	1498.4	1506.9	1511.2	1520.8	1527.2	1543.2	1565.6	1558.1	1548.5
5°	1499.4	1505.8	1524.0	1546.4	1563.4	1589.0	1601.8	1632.7	1658.3	1656.2	1639.1
7.5°	1531.4	1545.3	1567.7	1600.8	1629.5	1655.1	1673.3	1706.3	1729.8	1720.2	1704.2
10°	1572.0	1585.8	1610.4	1640.2	1661.5	1689.3	1701.0	1727.7	1742.6	1730.9	1717.0
12.5°	1609.3	1616.7	1633.8	1656.2	1667.9	1686.1	1691.4	1710.6	1724.5	1719.1	1702.1
15°	1645.5	1644.5	1647.7	1654.1	1658.3	1662.6	1663.7	1677.5	1687.1	1676.5	1664.7
17.5°	1686.1	1675.4	1661.5	1650.9	1634.9	1627.4	1613.5	1619.9	1618.9	1610.4	1600.8
20°	1737.3	1718.1	1675.4	1642.3	1600.8	1567.7	1538.9	1533.6	1533.6	1510.1	1509.0
22.5°	1798.0	1766.1	1694.6	1622.1	1554.9	1502.6	1449.3	1418.4	1396.0	1378.9	1371.5
25°	1877.0	1818.3	1711.7	1594.4	1495.2	1400.3	1320.3	1277.6	1235.0	1207.2	1203.0
27.5°	1961.2	1897.2	1722.3	1569.8	1413.1	1282.9	1172.0	1084.6	1045.1	1027.0	1009.9
30°	2098.8	1985.7	1741.5	1517.6	1309.6	1139.0	991.8	889.4	851.0	838.2	827.6
32.5°	2432.6	2215.0	1759.7	1464.2	1198.7	980.1	786.0	699.6	666.5	679.3	683.6
35°	2850.6	2556.3	1846.0	1402.4	1083.5	799.8	604.7	547.1	549.2	568.4	574.8
37.5°	3134.3	2857.0	2022.0	1324.5	918.2	593.0	468.2	450.0	466.0	483.1	486.3
40°	3300.7	2994.6	2145.7	1228.6	723.1	443.6	351.9	339.1	373.3	411.7	435.1
42.5°	3477.7	3111.9	2209.7	1103.8	507.6	321.0	269.8	279.4	333.8	366.9	381.8
45°	3572.6	3203.6	2180.9	925.7	345.5	249.6	242.1	268.7	323.1	353.0	357.3
47.5°	3675.0	3295.4	2111.6	740.1	264.5	236.8	237.8	269.8	325.3	357.3	357.3
50°	3763.5	3371.1	1987.9	580.2	251.7	228.2	238.9	275.1	328.5	356.2	355.1
52.5°	3865.9	3405.2	1811.9	469.2	238.9	220.8	240.0	279.4	323.1	339.1	337.0
55°	3897.9	3380.7	1727.7	392.5	229.3	216.5	244.2	285.8	321.0	324.2	318.9
57.5°	3897.9	3314.5	1631.7	334.9	220.8	216.5	246.4	284.7	332.7	353.0	350.9
60°	3880.8	3245.2	1484.5	299.7	209.0	214.4	247.4	300.7	395.7	418.1	417.0
62.5°	3826.4	3133.3	1303.2	264.5	197.3	215.4	244.2	323.1	452.2	442.6	419.1
65°	3697.4	2922.1	1056.9	232.5	184.5	215.4	240.0	355.1	402.1	383.9	375.4
67.5°	3454.3	2656.5	786.0	199.4	169.6	201.6	233.6	332.7	341.3	321.0	308.2
70°	3133.3	2250.2	504.4	168.5	153.6	189.8	229.3	312.5	329.5	305.0	289.0
72.5°	2610.7	1787.4	292.2	137.6	130.1	174.9	220.8	302.9	324.2	291.1	268.7
75°	1841.8	1128.3	192.0	101.3	104.5	149.3	204.8	283.7	303.9	263.4	231.4
77.5°	938.5	423.4	136.5	74.7	70.4	114.1	177.0	261.3	299.7	265.5	227.2
80°	331.7	213.3	89.6	49.1	45.9	70.4	135.4	221.8	281.5	259.1	251.7
82.5°	141.8	106.6	49.1	30.9	27.7	35.2	76.8	174.9	247.4	234.6	283.7
85°	20.3	18.1	13.9	11.7	11.7	16.0	24.5	86.4	167.4	190.9	231.4
87.5°	3.2	3.2	3.2	2.1	2.1	2.1	1.1	12.8	55.5	83.2	115.2
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)