

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: P509425

Luminaire Tested: **VERD-CA2-90-750-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509425
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-90-750-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1250mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13266 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

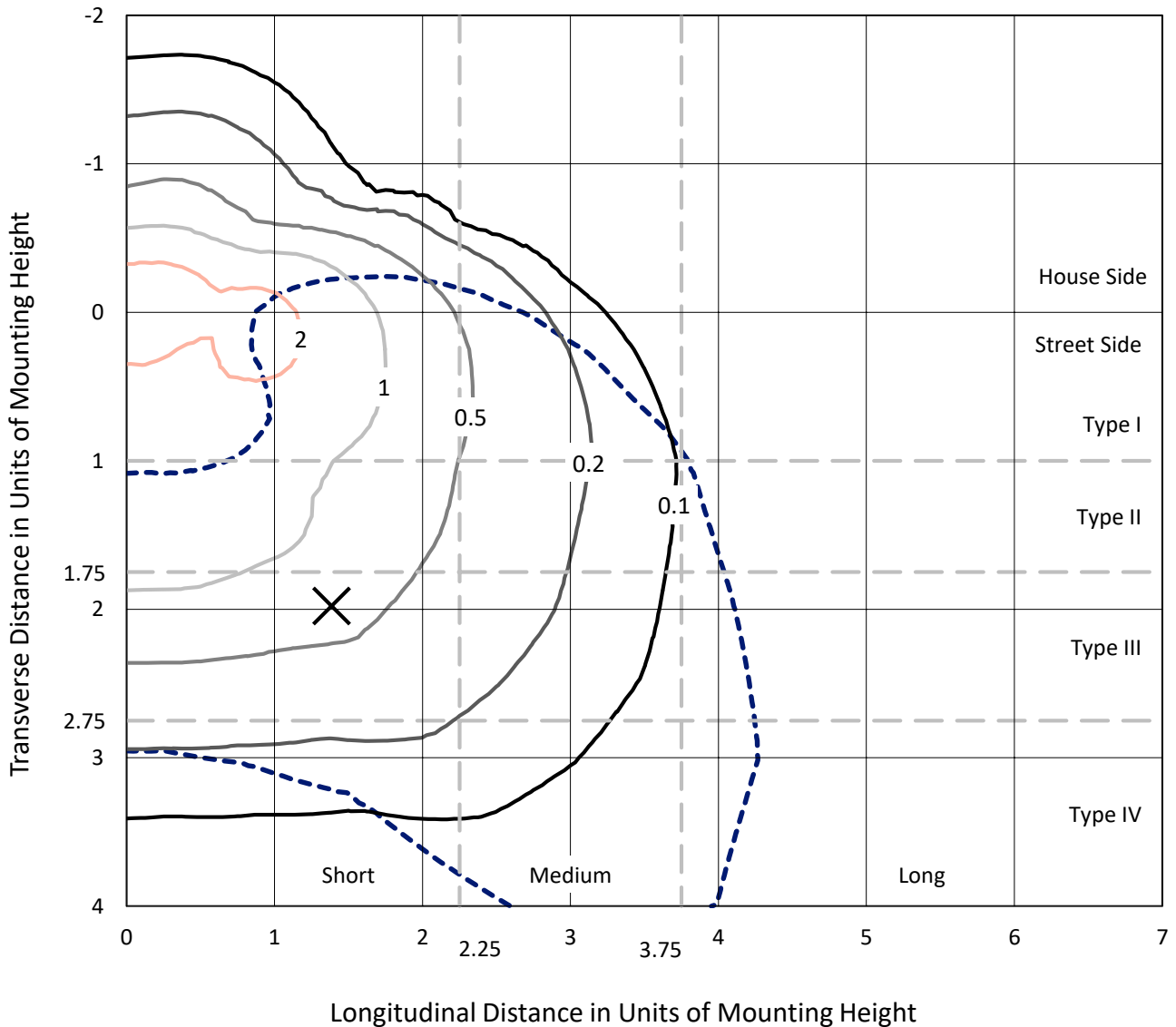
Input Watts (W): 94.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

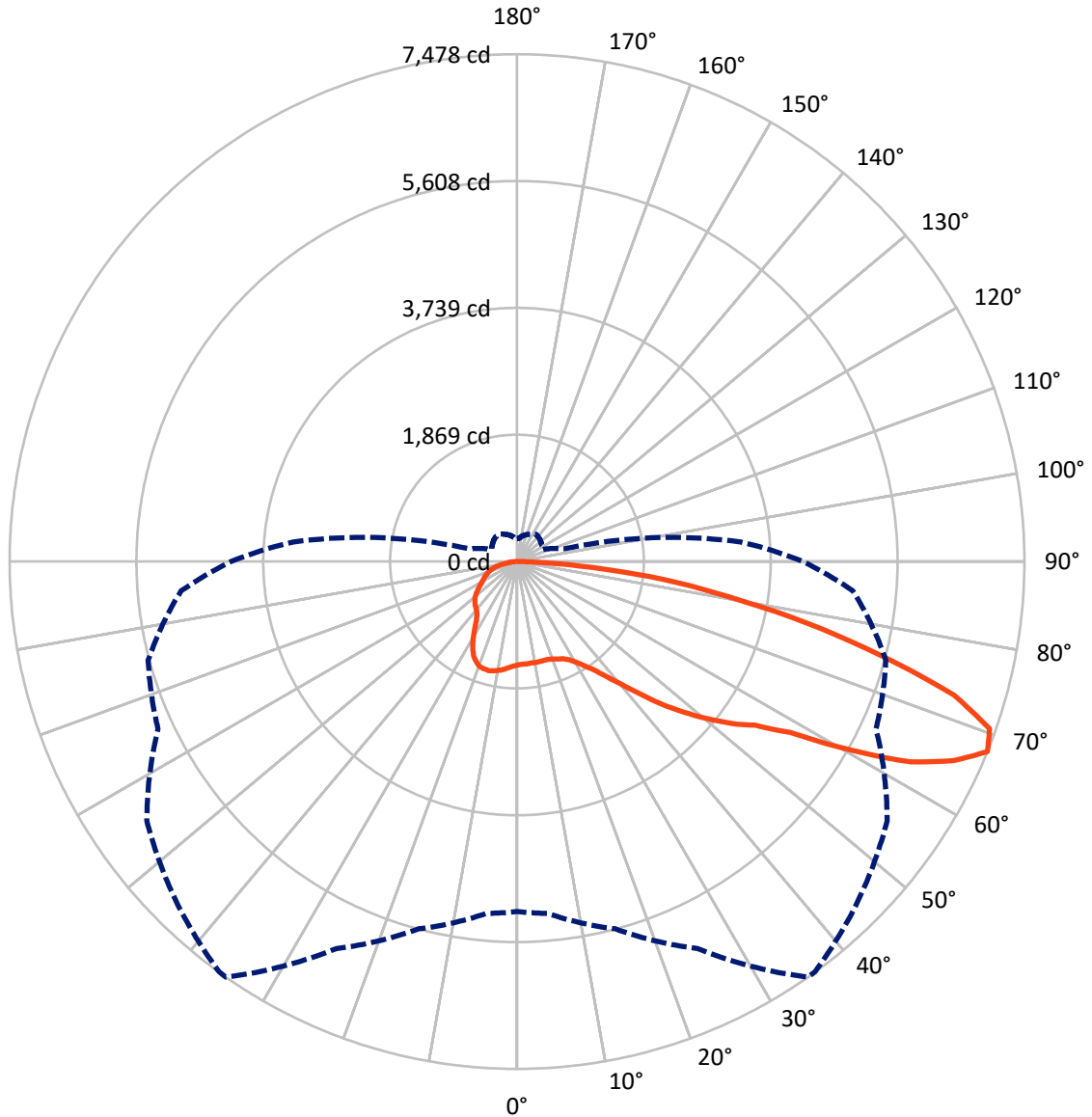
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3022.3	0.0	3022.3
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	10243.7	0.0	10243.7
	% Fixture	77.2	0.0	77.2
Total	Lumens	13266.0	0.0	13266.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.5	1.1
10°-20°	452.5	3.4
20°-30°	755.2	5.7
30°-40°	1162.0	8.8
40°-50°	1914.9	14.4
50°-60°	2735.2	20.6
60°-70°	3405.4	25.7
70°-80°	2298.1	17.3
80°-90°	395.0	3.0
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°	13266.0	100.0
0°-180°	13266.0	100.0

Coefficient of Utilization



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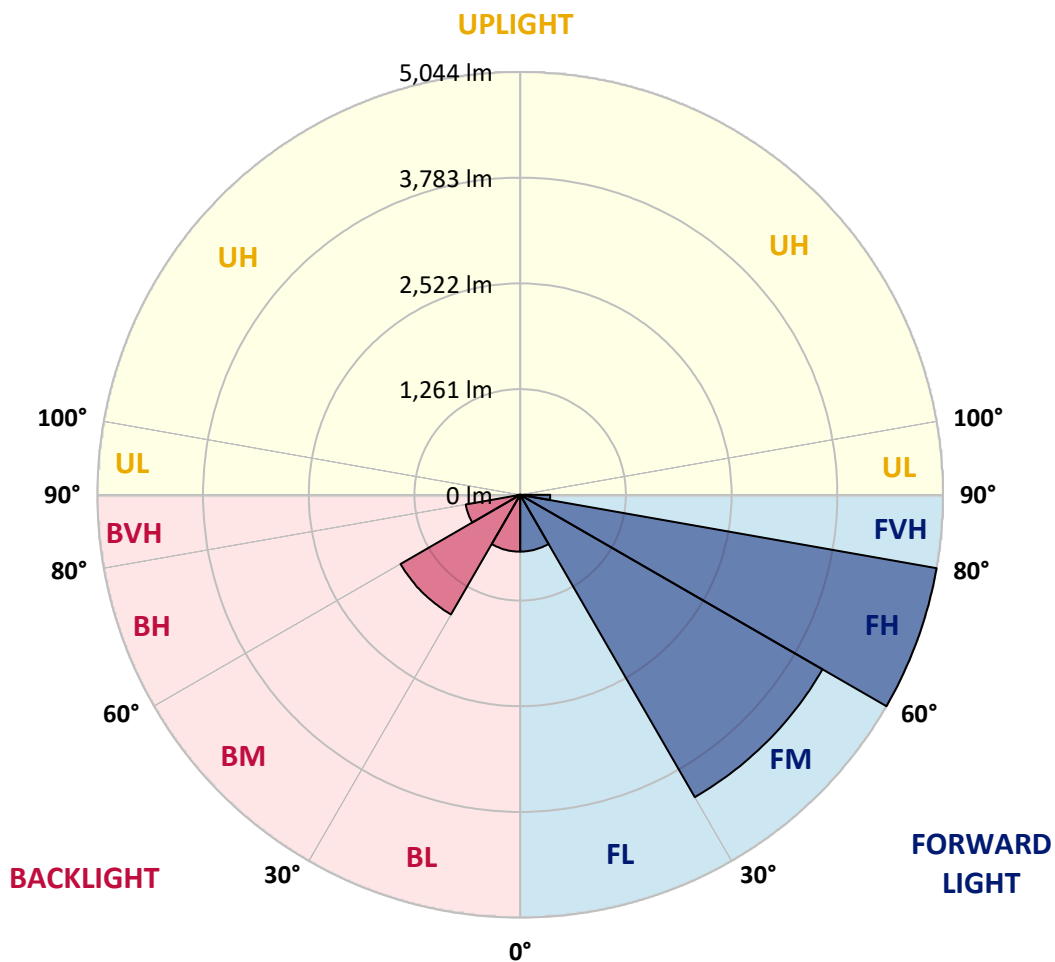
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	677.0	5.1			
FM	(30°-60°)	4164.3	31.4			
FH	(60°-80°)	5043.8	38.0			G3/7500
FVH	(80°-90°)	358.6	2.7			G3/500
BL	(0°-30°)	678.3	5.1	B2/1000		
BM	(30°-60°)	1647.8	12.4	B2/2500		
BH	(60°-80°)	659.8	5.0	B2/1000		G2/1000
BVH	(80°-90°)	36.4	0.3			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°	36°	45°	55°	65°	75°	85°
0°	1524.4	1524.4	1524.4	1524.4	1524.4	1524.4	1524.4	1524.4	1524.4	1524.4	1524.4
2.5°	1503.0	1517.3	1515.9	1513.0	1514.4	1515.9	1508.7	1504.4	1510.1	1511.6	1518.7
5°	1501.6	1513.0	1511.6	1511.6	1515.9	1514.4	1503.0	1494.4	1504.4	1511.6	1518.7
7.5°	1500.1	1510.1	1510.1	1505.8	1508.7	1508.7	1503.0	1508.7	1508.7	1520.1	1528.7
10°	1498.7	1507.3	1507.3	1508.7	1513.0	1514.4	1514.4	1518.7	1534.4	1538.7	1555.9
12.5°	1481.5	1488.7	1494.4	1503.0	1511.6	1514.4	1521.6	1534.4	1554.5	1564.5	1584.5
15°	1467.2	1477.2	1487.3	1495.8	1508.7	1511.6	1527.3	1548.7	1570.2	1591.6	1621.7
17.5°	1473.0	1485.8	1497.3	1504.4	1514.4	1517.3	1533.0	1561.6	1595.9	1627.4	1668.9
20°	1485.8	1500.1	1511.6	1520.1	1533.0	1535.9	1548.7	1575.9	1620.2	1668.9	1716.1
22.5°	1517.3	1527.3	1540.2	1544.5	1558.8	1561.6	1570.2	1597.4	1654.6	1716.1	1776.1
25°	1545.9	1557.3	1567.3	1571.6	1587.4	1590.2	1605.9	1628.8	1696.0	1766.1	1853.3
27.5°	1583.1	1594.5	1607.4	1611.7	1638.8	1641.7	1648.8	1683.2	1750.4	1831.9	1940.6
30°	1654.6	1661.7	1676.0	1693.2	1720.4	1723.2	1738.9	1774.7	1823.3	1923.4	2067.9
32.5°	1763.3	1773.3	1767.5	1790.4	1830.5	1830.5	1884.8	1944.9	2004.9	2075.0	2266.6
35°	1972.0	1966.3	1960.6	1940.6	1964.9	1973.5	2049.3	2150.8	2318.1	2515.5	2704.2
37.5°	2230.9	2229.4	2199.4	2153.7	2152.2	2155.1	2223.7	2395.3	2661.3	3100.3	3303.4
40°	2628.4	2639.9	2534.0	2439.7	2386.8	2375.3	2429.7	2645.6	3003.1	3588.0	3726.7
42.5°	3026.0	3001.7	2915.9	2762.9	2674.2	2667.0	2677.1	2865.8	3334.9	3982.7	4032.7
45°	3377.8	3396.4	3261.9	3169.0	3006.0	3008.8	2964.5	3137.5	3663.8	4261.5	4270.1
47.5°	3736.7	3751.0	3583.7	3477.9	3322.0	3322.0	3251.9	3389.2	3956.9	4527.5	4510.4
50°	4120.0	4152.9	3942.6	3782.5	3639.5	3633.8	3612.3	3698.1	4245.8	4752.1	4683.4
52.5°	4637.7	4524.7	4325.9	4108.5	3967.0	3949.8	3929.8	3991.3	4577.6	4935.1	4795.0
55°	5172.5	5019.5	4816.4	4524.7	4257.3	4281.6	4231.5	4301.6	4882.2	5153.9	4940.8
57.5°	5497.1	5554.3	5444.2	5193.9	4753.5	4749.2	4560.4	4597.6	5155.3	5338.4	5095.3
60°	5838.9	5919.0	5993.3	5844.6	5635.8	5541.4	5056.7	4912.2	5462.8	5472.8	5078.1
62.5°	6017.7	6001.9	6325.1	6342.3	6503.9	6515.3	6042.0	5319.8	5644.4	5585.8	5138.2
65°	5698.7	5707.3	6239.3	6516.7	7073.0	7105.9	6932.9	6036.2	5797.4	5638.7	5069.5
67.5°	5158.2	5206.8	5605.8	6292.2	7477.7	7472.0	7097.3	6659.7	5837.5	5627.2	4969.4
70°	4218.6	4270.1	4679.1	5675.9	7389.1	7341.9	7027.3	6709.8	5803.1	5524.3	4470.3
72.5°	3236.2	3229.1	3652.3	4533.3	6737.0	6782.7	6668.3	6356.6	5638.7	5083.8	3662.4
75°	2280.9	2245.2	2621.3	3436.4	5555.7	5724.5	6114.9	6029.1	5016.6	4184.3	2448.2
77.5°	1497.3	1551.6	1851.9	2541.2	4368.8	4510.4	5049.5	4879.3	3712.4	2669.9	883.8
80°	951.0	999.6	1242.7	1814.7	3176.1	3240.5	3680.9	3103.2	1983.5	880.9	123.0
82.5°	577.7	584.9	800.8	1227.0	2190.8	2190.8	2318.1	1734.7	776.5	114.4	80.1
85°	307.5	324.6	431.9	662.1	1104.0	1186.9	1051.1	662.1	150.2	62.9	48.6
87.5°	97.2	98.7	141.6	256.0	237.4	244.5	81.5	34.3	17.2	11.4	10.0
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°	1524.4	1524.4	1524.4	1524.4	1524.4	1524.4	1524.4	1524.4	1524.4	1524.4	1524.4
2.5°	1521.6	1523.0	1531.6	1535.9	1537.3	1533.0	1543.0	1557.3	1553.0	1568.8	1563.0
5°	1521.6	1528.7	1540.2	1538.7	1550.2	1555.9	1567.3	1581.6	1577.3	1600.2	1591.6
7.5°	1533.0	1544.5	1553.0	1570.2	1578.8	1575.9	1601.7	1613.1	1607.4	1624.5	1616.0
10°	1561.6	1574.5	1585.9	1604.5	1617.4	1611.7	1626.0	1633.1	1623.1	1640.3	1636.0
12.5°	1594.5	1608.8	1631.7	1644.6	1654.6	1644.6	1644.6	1640.3	1626.0	1641.7	1631.7
15°	1631.7	1650.3	1681.7	1696.0	1693.2	1676.0	1660.3	1630.3	1591.6	1598.8	1584.5
17.5°	1681.7	1704.6	1740.4	1749.0	1737.5	1696.0	1654.6	1600.2	1531.6	1514.4	1503.0
20°	1736.1	1761.8	1811.9	1807.6	1781.8	1708.9	1643.1	1558.8	1451.5	1402.9	1380.0
22.5°	1810.4	1836.2	1883.4	1857.6	1804.7	1708.9	1597.4	1480.1	1352.8	1281.3	1265.6
25°	1892.0	1927.7	1947.7	1890.5	1799.0	1670.3	1535.9	1381.4	1218.4	1141.2	1125.4
27.5°	1992.1	2016.4	1996.4	1894.8	1770.4	1605.9	1435.8	1249.9	1094.0	1028.2	1005.3
30°	2109.3	2112.2	2033.5	1886.2	1706.0	1514.4	1312.8	1116.9	996.7	935.3	921.0
32.5°	2265.2	2236.6	2066.4	1846.2	1618.8	1388.6	1175.5	1028.2	928.1	850.9	830.9
35°	2671.3	2541.2	2139.4	1800.4	1513.0	1248.4	1056.8	948.1	863.8	776.5	760.8
37.5°	3197.6	2967.4	2268.1	1753.2	1392.9	1119.7	978.2	900.9	829.4	732.2	710.7
40°	3592.3	3326.3	2466.8	1701.8	1282.8	1028.2	935.3	882.3	803.7	715.0	692.1
42.5°	3894.0	3625.2	2671.3	1644.6	1179.8	956.7	905.2	869.5	793.7	710.7	692.1
45°	4102.8	3834.0	2847.2	1577.3	1048.2	895.2	882.3	848.0	775.1	695.0	676.4
47.5°	4314.5	3981.3	2945.9	1507.3	938.1	860.9	849.4	810.8	743.6	667.8	653.5
50°	4498.9	4148.6	3030.3	1435.8	850.9	819.4	812.3	760.8	696.4	624.9	606.3
52.5°	4551.8	4188.6	2996.0	1431.5	772.2	775.1	760.8	719.3	659.3	582.0	563.4
55°	4672.0	4300.2	2913.0	1299.9	696.4	706.4	703.6	682.1	626.4	554.9	540.6
57.5°	4723.5	4215.8	2792.9	966.7	617.8	626.4	650.7	650.7	602.1	537.7	524.8
60°	4716.3	4218.6	2578.4	676.4	540.6	563.4	597.8	597.8	559.1	496.2	480.5
62.5°	4662.0	4110.0	2222.3	516.2	491.9	524.8	564.9	539.1	504.8	434.7	423.3
65°	4571.9	3811.1	1540.2	453.3	464.8	503.4	523.4	491.9	450.5	387.5	380.4
67.5°	4211.5	3310.6	716.5	414.7	441.9	471.9	489.1	444.7	401.8	344.6	336.1
70°	3585.1	2422.5	308.9	384.7	414.7	436.2	453.3	407.6	361.8	311.8	308.9
72.5°	2607.0	1292.8	257.4	337.5	369.0	391.8	413.3	367.5	323.2	264.6	264.6
75°	1255.6	214.5	221.7	280.3	308.9	354.7	364.7	300.3	250.3	201.6	197.3
77.5°	154.4	138.7	191.6	223.1	247.4	271.7	296.0	260.3	215.9	165.9	157.3
80°	97.2	97.2	151.6	155.9	168.7	194.5	217.4	203.1	170.2	95.8	88.7
82.5°	71.5	77.2	100.1	74.4	88.7	111.5	127.3	144.4	123.0	67.2	62.9
85°	45.8	50.1	47.2	37.2	48.6	74.4	101.5	100.1	82.9	50.1	47.2
87.5°	10.0	10.0	10.0	8.6	10.0	12.9	24.3	47.2	34.3	27.2	25.7
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)