

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: P233802

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233802
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-34)
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-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 960mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14225 lumens
Efficiency: N/A
Efficacy: 129.3 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

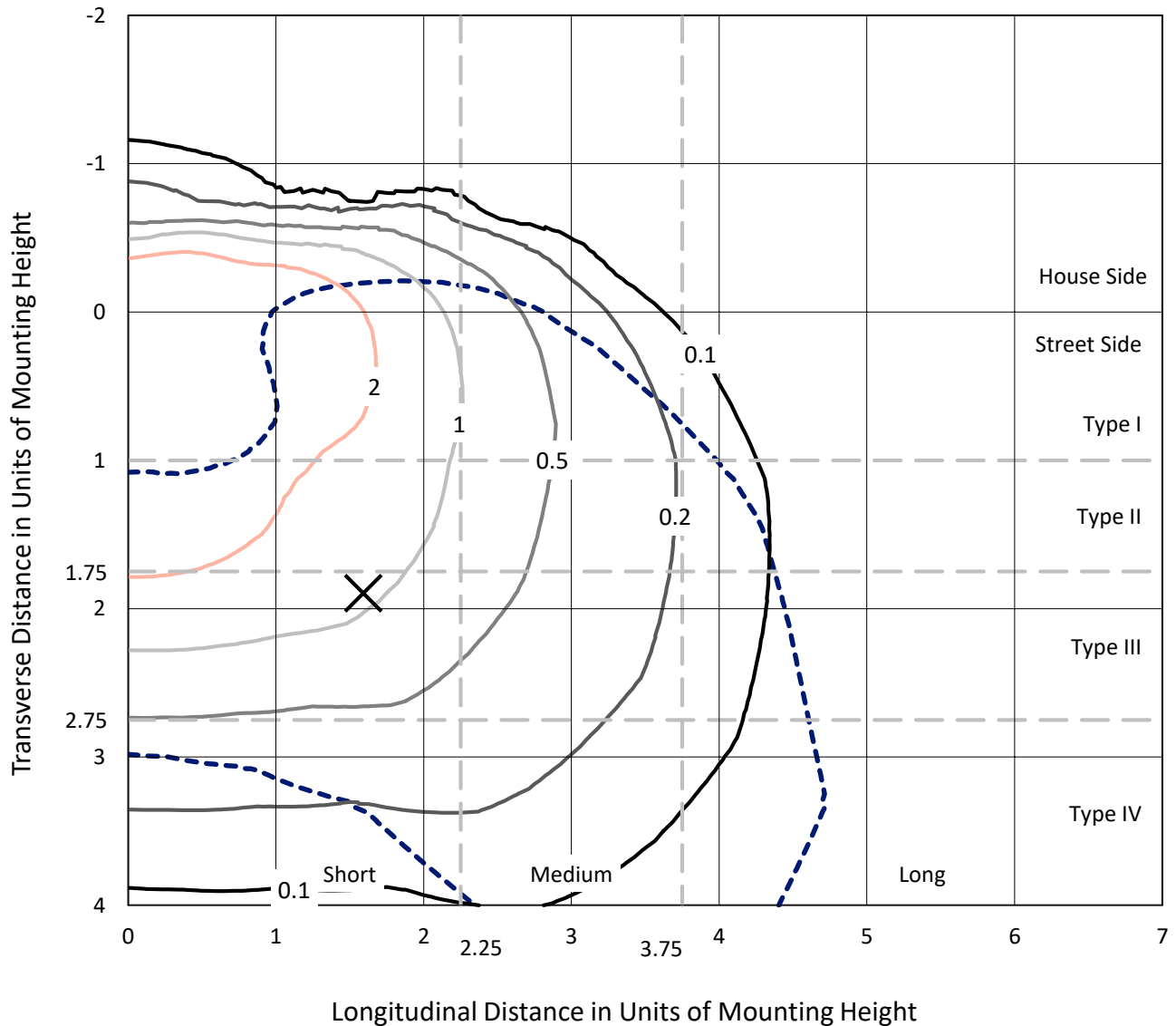


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

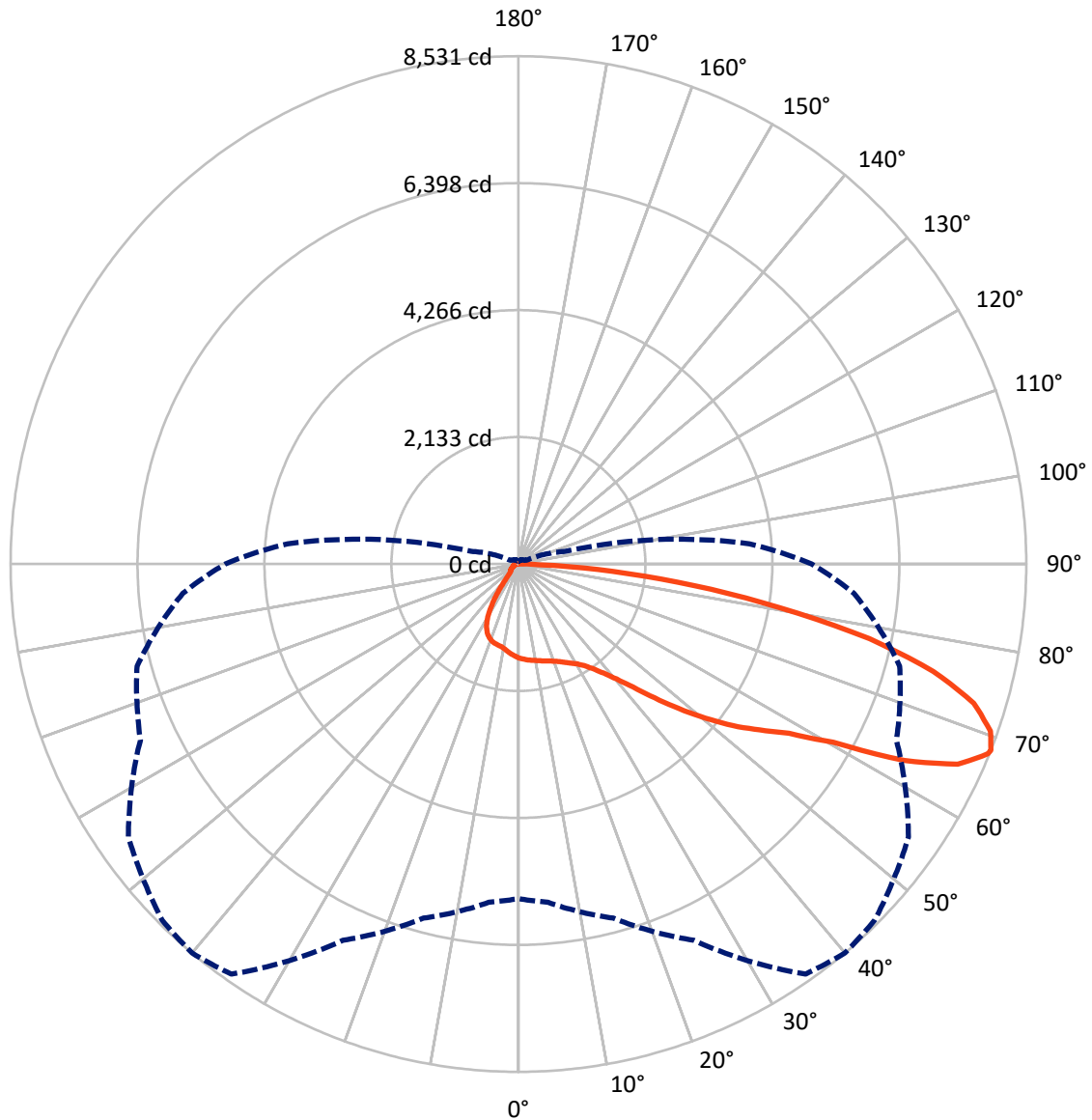


Based on 20 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2307.6	0.0	2307.6
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	11917.4	0.0	11917.4
	% Fixture	83.8	0.0	83.8
Total	Lumens	14225.0	0.0	14225.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.0	1.1
10°-20°	449.2	3.2
20°-30°	753.8	5.3
30°-40°	1116.4	7.8
40°-50°	1888.7	13.3
50°-60°	2882.5	20.3
60°-70°	3774.2	26.5
70°-80°	2713.5	19.1
80°-90°	496.7	3.5
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°	14225.0	100.0
0°-180°	14225.0	100.0



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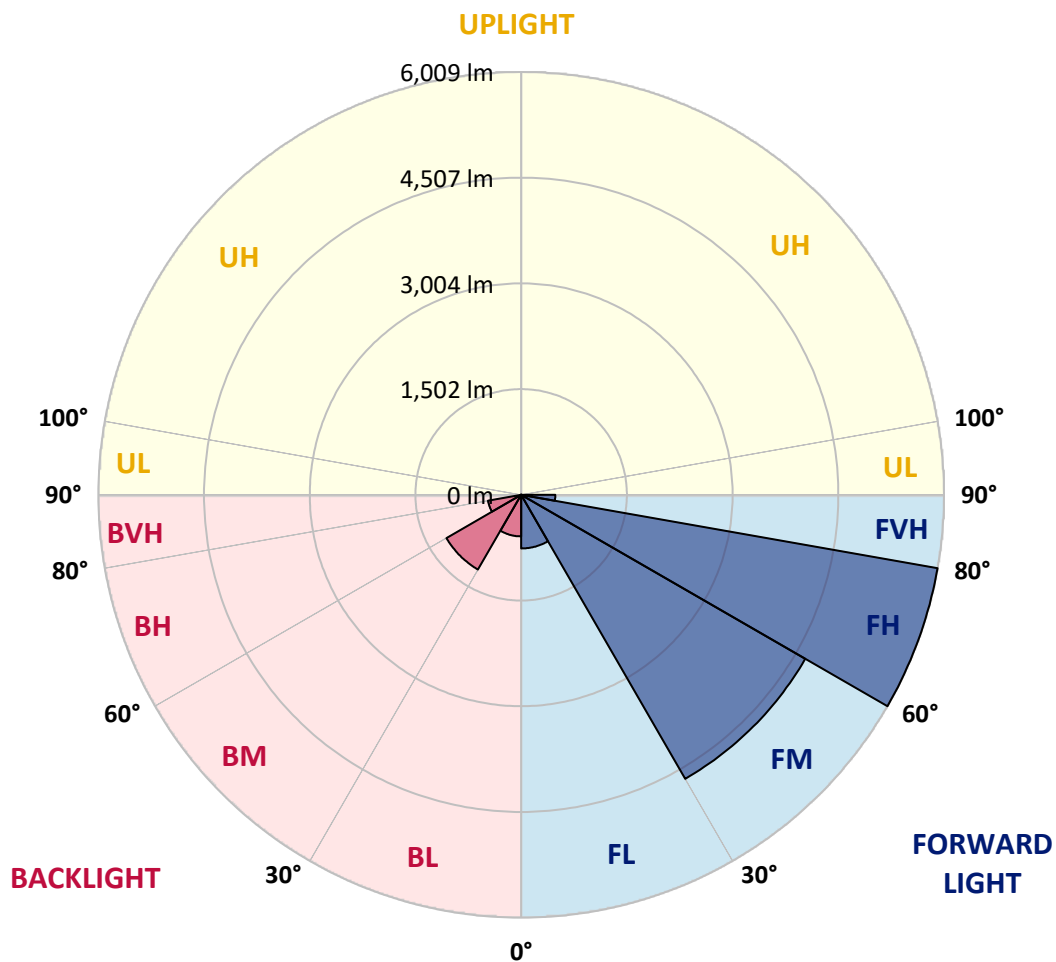
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	762.6	5.4			
FM	(30°-60°)	4661.1	32.8			
FH	(60°-80°)	6008.9	42.2			G3/7500
FVH	(80°-90°)	484.9	3.4			G3/500
BL	(0°-30°)	590.4	4.2	B2/1000		
BM	(30°-60°)	1226.5	8.6	B2/2500		
BH	(60°-80°)	478.9	3.4	B1/500		G1/500
BVH	(80°-90°)	11.8	0.1			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°	40°	45°	55°	65°	75°	85°
0°	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7
2.5°	1630.7	1634.3	1629.5	1617.6	1604.5	1597.3	1596.2	1595.0	1589.0	1580.7	1568.8
5°	1647.4	1648.6	1643.8	1634.3	1622.4	1620.0	1616.4	1617.6	1614.0	1605.7	1592.6
7.5°	1654.5	1656.9	1651.0	1641.4	1631.9	1631.9	1630.7	1634.3	1631.9	1628.3	1612.8
10°	1652.1	1655.7	1652.1	1648.6	1645.0	1648.6	1646.2	1654.5	1655.7	1655.7	1637.8
12.5°	1648.6	1653.3	1654.5	1658.1	1664.1	1667.6	1672.4	1690.3	1698.6	1704.6	1690.3
15°	1652.1	1654.5	1664.1	1670.0	1681.9	1690.3	1701.0	1730.8	1745.1	1761.7	1754.6
17.5°	1667.6	1673.6	1687.9	1693.8	1705.7	1711.7	1724.8	1761.7	1790.3	1820.1	1824.9
20°	1701.0	1704.6	1728.4	1730.8	1736.7	1742.7	1757.0	1797.5	1840.3	1883.2	1895.1
22.5°	1737.9	1746.2	1768.9	1765.3	1777.2	1779.6	1792.7	1836.8	1896.3	1948.7	1974.9
25°	1776.0	1783.2	1805.8	1808.2	1822.5	1832.0	1847.5	1890.4	1966.6	2033.3	2079.8
27.5°	1808.2	1822.5	1843.9	1846.3	1873.7	1885.6	1908.2	1957.1	2048.8	2131.0	2207.2
30°	1867.7	1871.3	1891.6	1898.7	1935.6	1946.4	1972.6	2034.5	2146.5	2248.9	2368.0
32.5°	1941.6	1940.4	1959.5	1971.4	2016.6	2035.7	2069.0	2140.5	2264.4	2391.9	2561.0
35°	2077.4	2065.5	2077.4	2089.3	2141.7	2162.0	2197.7	2304.9	2450.2	2667.0	2875.5
37.5°	2389.5	2371.6	2346.6	2287.0	2300.1	2326.3	2378.8	2524.1	2738.5	3141.1	3342.4
40°	2930.3	2891.0	2786.1	2628.9	2536.0	2538.4	2587.2	2777.8	3092.3	3684.3	3835.5
42.5°	3419.8	3392.4	3266.2	3050.6	2836.2	2824.2	2840.9	3063.7	3478.2	4188.1	4266.7
45°	3880.8	3893.9	3710.5	3541.3	3285.2	3206.6	3186.4	3368.6	3905.8	4637.2	4644.3
47.5°	4307.2	4328.7	4107.1	3947.5	3695.0	3627.1	3564.0	3689.0	4309.6	5019.6	4961.2
50°	4765.8	4782.5	4475.2	4344.2	4132.1	4069.0	4021.4	4076.2	4723.0	5374.5	5243.5
52.5°	5399.5	5306.6	4920.7	4703.9	4515.7	4510.9	4474.0	4508.5	5193.5	5693.8	5457.9
55°	6147.6	5904.6	5494.8	5148.2	4906.4	4919.5	4875.4	4932.6	5659.2	5967.7	5656.8
57.5°	6412.0	6406.1	6215.5	5883.2	5392.4	5362.6	5286.4	5350.7	6061.8	6223.8	5797.4
60°	6778.9	6811.1	6832.5	6632.4	6348.9	6078.5	5823.6	5817.6	6437.0	6457.3	5866.5
62.5°	7015.9	7045.7	7212.5	7186.3	7361.4	7272.0	6981.4	6337.0	6724.1	6608.6	5892.7
65°	6572.8	6646.7	7067.2	7387.6	7984.4	8109.4	8067.7	7135.1	6919.5	6652.6	5843.8
67.5°	5771.2	5867.7	6328.6	7077.9	8370.3	8509.7	8433.4	7939.1	7004.0	6633.6	5709.2
68°	5621.1	5704.5	6157.1	6974.3	8409.6	8531.1	8462.0	7998.7	7007.6	6631.2	5658.0
70°	4899.3	4967.1	5409.1	6443.0	8300.0	8413.2	8403.6	8054.6	6976.6	6557.3	5313.8
72.5°	3801.0	3868.9	4260.8	5343.6	7793.8	8001.0	7992.7	7830.7	6919.5	6180.9	4454.9
75°	2748.0	2823.1	3180.4	4105.9	6744.4	7200.6	7292.3	7447.1	6325.1	5201.8	3169.7
77.5°	1984.5	2039.3	2347.8	3101.8	5509.1	6030.9	6216.7	6372.7	5176.8	3791.5	1508.0
80°	1323.4	1362.7	1660.5	2306.1	4150.0	4457.3	4657.4	4396.6	2945.7	1371.0	163.2
82.5°	814.8	839.8	1074.4	1617.6	2870.7	2967.2	2968.4	2345.4	949.4	131.0	88.1
85°	437.2	445.5	583.7	882.7	1516.3	1589.0	1560.4	985.1	191.8	70.3	47.6
87.5°	70.3	76.2	183.4	331.1	468.1	360.9	231.1	72.7	19.1	10.7	7.1
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°	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7	1580.7
2.5°	1574.7	1571.1	1561.6	1556.8	1544.9	1548.5	1548.5	1539.0	1543.7	1562.8	1560.4
5°	1589.0	1590.2	1567.6	1555.7	1529.5	1522.3	1511.6	1497.3	1496.1	1509.2	1510.4
7.5°	1600.9	1606.9	1574.7	1550.9	1515.2	1490.1	1468.7	1443.7	1437.7	1446.1	1446.1
10°	1620.0	1625.9	1585.4	1552.1	1499.7	1459.2	1422.2	1390.1	1377.0	1377.0	1378.2
12.5°	1670.0	1666.4	1620.0	1568.8	1506.8	1442.5	1384.1	1341.2	1310.3	1309.1	1304.3
15°	1739.1	1726.0	1680.7	1603.3	1523.5	1441.3	1360.3	1293.6	1240.0	1225.7	1219.8
17.5°	1812.9	1796.3	1741.5	1647.4	1549.7	1440.1	1332.9	1240.0	1150.7	1116.1	1105.4
20°	1892.8	1872.5	1816.5	1698.6	1575.9	1431.8	1292.4	1162.6	1041.1	975.6	958.9
22.5°	1980.9	1964.2	1896.3	1751.0	1593.8	1413.9	1229.3	1064.9	910.0	815.9	808.8
25°	2095.3	2079.8	1979.7	1797.5	1595.0	1380.6	1145.9	939.8	745.7	634.9	612.3
27.5°	2232.2	2204.8	2046.4	1826.1	1575.9	1322.2	1037.5	773.1	553.9	461.0	458.6
30°	2381.1	2331.1	2100.0	1833.2	1533.0	1229.3	888.6	568.2	393.1	330.0	330.0
32.5°	2556.2	2464.5	2154.8	1821.3	1462.7	1100.6	680.2	394.3	270.4	240.6	240.6
35°	2812.3	2670.6	2225.1	1791.5	1363.9	923.2	483.6	260.9	213.2	209.6	209.6
37.5°	3217.3	2981.5	2320.4	1741.5	1228.1	704.0	314.5	201.3	203.7	203.7	202.5
40°	3648.5	3341.2	2451.4	1661.7	1057.8	486.0	206.1	190.6	194.2	196.5	195.4
42.5°	4038.0	3683.1	2594.4	1554.5	856.4	306.1	188.2	183.4	181.1	183.4	184.6
45°	4375.1	3979.7	2738.5	1415.1	632.5	200.1	183.4	172.7	165.6	166.8	168.0
47.5°	4663.4	4213.1	2836.2	1268.6	419.3	177.5	177.5	158.4	151.3	151.3	151.3
50°	4915.9	4420.4	2895.7	1093.5	250.1	175.1	166.8	145.3	138.2	137.0	138.2
52.5°	5099.4	4565.7	2888.6	880.3	168.0	169.1	152.5	133.4	125.1	127.5	128.6
55°	5244.7	4657.4	2825.4	644.4	157.2	158.4	141.7	120.3	114.4	115.5	115.5
57.5°	5336.4	4680.1	2696.8	419.3	153.7	141.7	127.5	107.2	100.1	100.1	100.1
60°	5366.2	4668.2	2521.7	268.0	152.5	127.5	115.5	96.5	89.3	89.3	89.3
62.5°	5341.2	4599.1	2225.1	193.0	141.7	119.1	104.8	85.8	78.6	76.2	76.2
65°	5251.8	4414.4	1715.3	159.6	127.5	109.6	95.3	77.4	67.9	64.3	63.1
67.5°	4991.0	4014.2	998.2	150.1	115.5	100.1	88.1	70.3	59.6	53.6	52.4
68°	4923.1	3895.1	820.7	148.9	115.5	98.9	87.0	67.9	57.2	51.2	50.0
70°	4437.1	3142.3	235.9	141.7	113.2	95.3	79.8	61.9	51.2	44.1	42.9
72.5°	3341.2	1841.5	147.7	126.3	112.0	84.6	77.4	61.9	45.3	38.1	35.7
75°	1865.4	419.3	125.1	94.1	104.8	83.4	76.2	56.0	40.5	31.0	29.8
77.5°	383.6	121.5	107.2	65.5	79.8	72.7	64.3	47.6	36.9	23.8	22.6
80°	108.4	90.5	95.3	47.6	45.3	51.2	47.6	41.7	27.4	17.9	17.9
82.5°	70.3	66.7	85.8	32.2	23.8	23.8	31.0	25.0	23.8	14.3	14.3
85°	42.9	56.0	41.7	14.3	11.9	9.5	10.7	10.7	14.3	9.5	9.5
87.5°	6.0	6.0	6.0	6.0	6.0	4.8	3.6	3.6	3.6	4.8	4.8
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)