

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: P233777

Luminaire Tested: **VERD-C02H-D-U-T4-8027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233777
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-C02H-D-U-T4-8027-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1040mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13349 lumens
Efficiency: N/A
Efficacy: 111.2 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): 120
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

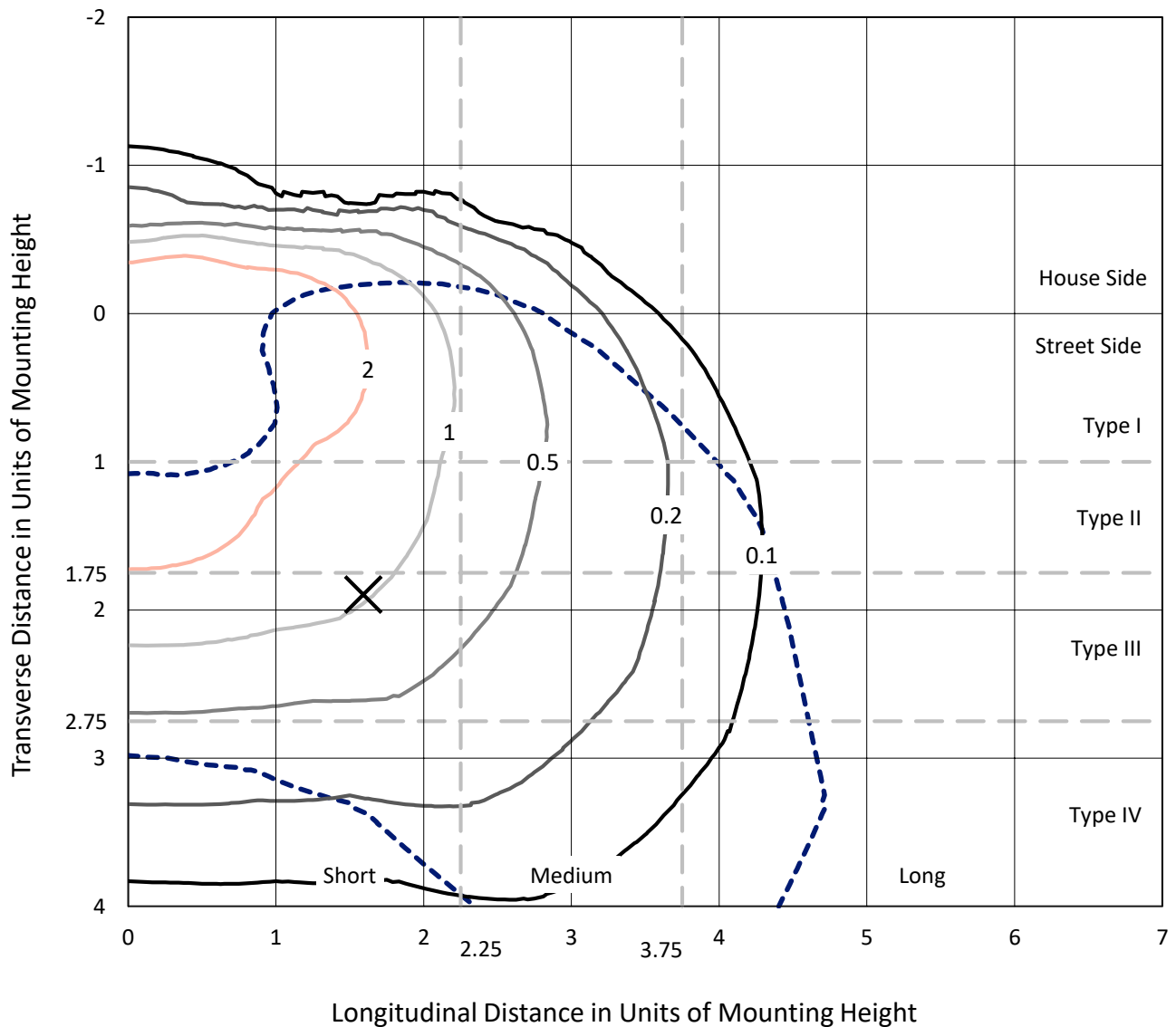


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

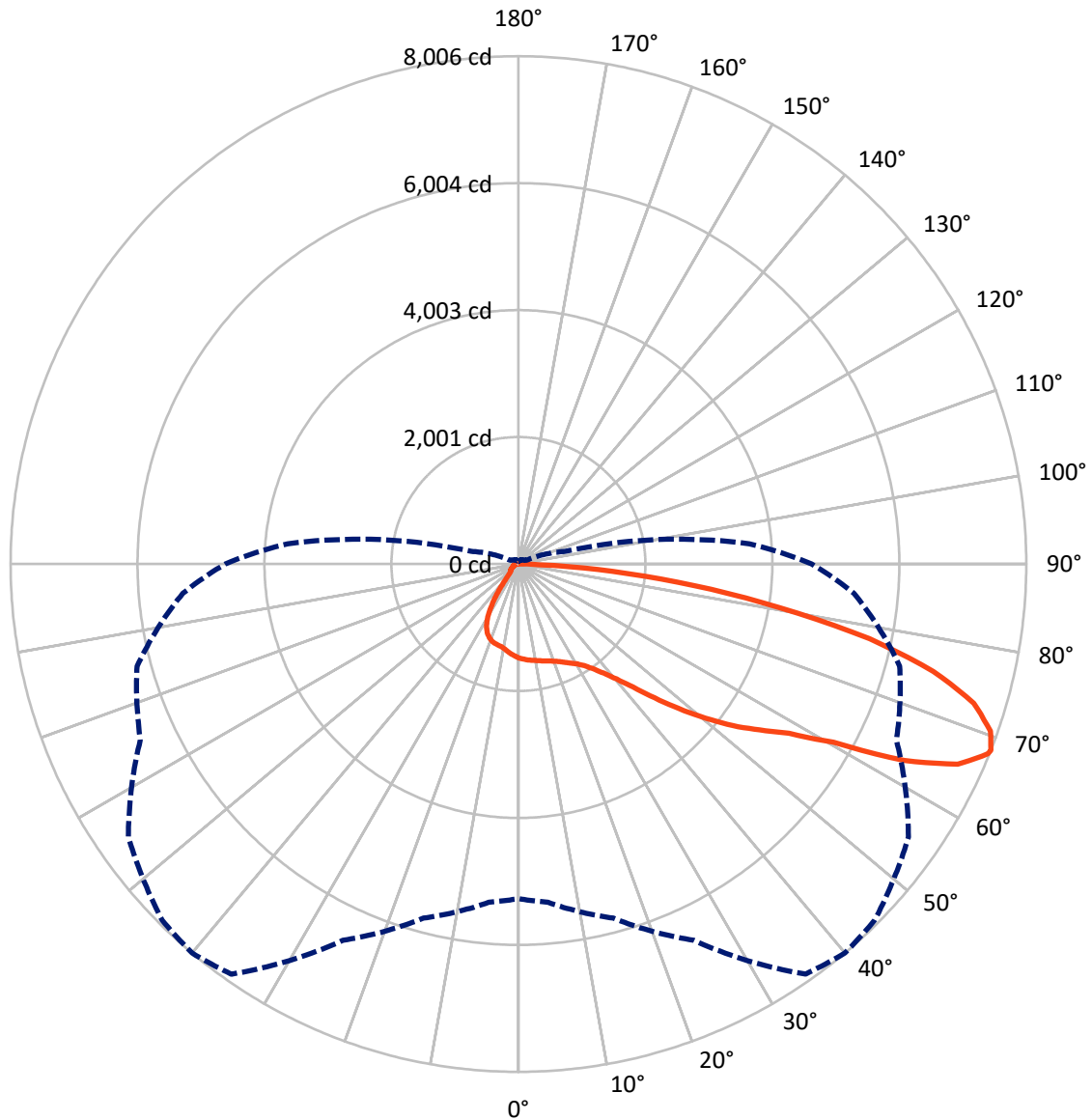


Based on 20 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2165.5	0.0	2165.5
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	11183.5	0.0	11183.5
	% Fixture	83.8	0.0	83.8
Total	Lumens	13349.0	0.0	13349.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.7	1.1
10°-20°	421.5	3.2
20°-30°	707.4	5.3
30°-40°	1047.7	7.8
40°-50°	1772.4	13.3
50°-60°	2705.0	20.3
60°-70°	3541.8	26.5
70°-80°	2546.4	19.1
80°-90°	466.1	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°	13349.0	100.0
0°-180°	13349.0	100.0

Coefficient of Utilization



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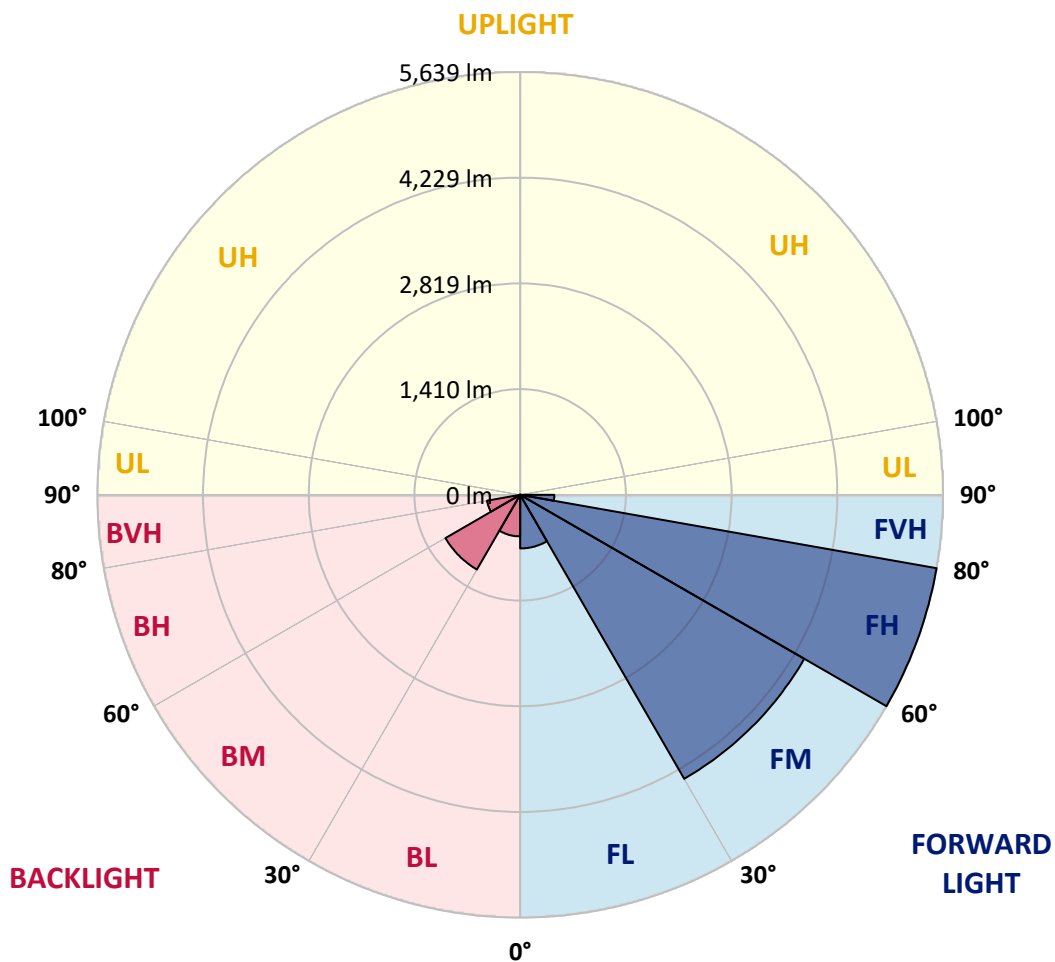
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	715.6	5.4			
FM (30°-60°)	4374.0	32.8			
FH (60°-80°)	5638.8	42.2			G3/7500
FVH (80°-90°)	455.1	3.4			G3/500
BL (0°-30°)	554.0	4.2	B2/1000		
BM (30°-60°)	1151.0	8.6	B2/2500		
BH (60°-80°)	449.4	3.4	B1/500		G1/500
BVH (80°-90°)	11.1	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°	1483.3	1483.3	1483.3	1483.3	1483.3	1483.3	1483.3	1483.3	1483.3	1483.3	1483.3
2.5°	1530.3	1533.6	1529.2	1518.0	1505.7	1499.0	1497.9	1496.7	1491.2	1483.3	1472.2
5°	1545.9	1547.0	1542.6	1533.6	1522.5	1520.2	1516.9	1518.0	1514.6	1506.8	1494.5
7.5°	1552.6	1554.9	1549.3	1540.3	1531.4	1531.4	1530.3	1533.6	1531.4	1528.0	1513.5
10°	1550.4	1553.8	1550.4	1547.0	1543.7	1547.0	1544.8	1552.6	1553.8	1553.8	1537.0
12.5°	1547.0	1551.5	1552.6	1556.0	1561.6	1564.9	1569.4	1586.2	1594.0	1599.6	1586.2
15°	1550.4	1552.6	1561.6	1567.2	1578.3	1586.2	1596.2	1624.2	1637.6	1653.2	1646.5
17.5°	1564.9	1570.5	1583.9	1589.5	1600.7	1606.3	1618.6	1653.2	1680.1	1708.0	1712.5
20°	1596.2	1599.6	1621.9	1624.2	1629.8	1635.4	1648.8	1686.8	1727.0	1767.3	1778.4
22.5°	1630.9	1638.7	1659.9	1656.6	1667.8	1670.0	1682.3	1723.7	1779.6	1828.7	1853.3
25°	1666.7	1673.4	1694.6	1696.8	1710.2	1719.2	1733.7	1774.0	1845.5	1908.1	1951.7
27.5°	1696.8	1710.2	1730.4	1732.6	1758.3	1769.5	1790.7	1836.6	1922.6	1999.8	2071.3
30°	1752.7	1756.1	1775.1	1781.8	1816.4	1826.5	1851.1	1909.2	2014.3	2110.4	2222.2
32.5°	1822.0	1820.9	1838.8	1850.0	1892.4	1910.3	1941.6	2008.7	2125.0	2244.6	2403.3
35°	1949.5	1938.3	1949.5	1960.6	2009.8	2028.8	2062.4	2163.0	2299.3	2502.8	2698.4
37.5°	2242.3	2225.6	2202.1	2146.2	2158.5	2183.1	2232.3	2368.6	2569.8	2947.7	3136.6
40°	2749.8	2712.9	2614.6	2467.0	2379.8	2382.0	2427.9	2606.7	2901.8	3457.4	3599.3
42.5°	3209.2	3183.5	3065.0	2862.7	2661.5	2650.3	2666.0	2875.0	3264.0	3930.2	4004.0
45°	3641.8	3654.1	3482.0	3323.2	3082.9	3009.1	2990.1	3161.2	3665.3	4351.6	4358.3
47.5°	4042.0	4062.1	3854.2	3704.4	3467.4	3403.7	3344.5	3461.9	4044.2	4710.4	4655.7
50°	4472.4	4488.0	4199.6	4076.6	3877.7	3818.4	3773.7	3825.1	4432.1	5043.6	4920.6
52.5°	5067.0	4979.8	4617.7	4414.2	4237.6	4233.1	4198.5	4230.9	4873.6	5343.1	5121.8
55°	5769.0	5541.0	5156.5	4831.2	4604.3	4616.5	4575.2	4628.8	5310.7	5600.2	5308.5
57.5°	6017.2	6011.6	5832.7	5520.9	5060.3	5032.4	4960.8	5021.2	5688.5	5840.5	5440.4
60°	6361.4	6391.6	6411.7	6224.0	5957.9	5704.2	5465.0	5459.4	6040.6	6059.6	5505.2
62.5°	6583.9	6611.8	6768.3	6743.7	6908.1	6824.2	6551.5	5946.7	6310.0	6201.6	5529.8
65°	6168.1	6237.4	6632.0	6932.6	7492.7	7610.0	7570.9	6695.7	6493.3	6243.0	5484.0
67.5°	5415.8	5506.3	5938.9	6642.0	7854.8	7985.6	7914.1	7450.2	6572.7	6225.1	5357.7
68°	5274.9	5353.2	5778.0	6544.8	7891.7	8005.7	7940.9	7506.1	6576.1	6222.8	5309.6
70°	4597.5	4661.3	5076.0	6046.2	7788.9	7895.1	7886.1	7558.6	6547.0	6153.5	4986.5
72.5°	3566.9	3630.6	3998.4	5014.5	7313.8	7508.3	7500.5	7348.5	6493.3	5800.3	4180.6
75°	2578.8	2649.2	2984.5	3853.1	6329.0	6757.2	6843.2	6988.5	5935.6	4881.5	2974.5
77.5°	1862.3	1913.7	2203.2	2910.8	5169.9	5659.5	5833.8	5980.3	4858.0	3558.0	1415.1
80°	1241.9	1278.8	1558.2	2164.1	3894.4	4182.8	4370.6	4125.8	2764.3	1286.6	153.1
82.5°	764.6	788.1	1008.3	1518.0	2693.9	2784.5	2785.6	2201.0	890.9	123.0	82.7
85°	410.2	418.1	547.7	828.3	1423.0	1491.2	1464.3	924.4	180.0	66.0	44.7
87.5°	66.0	71.5	172.1	310.8	439.3	338.7	216.9	68.2	17.9	10.1	6.7
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°	1483.3	1483.3	1483.3	1483.3	1483.3	1483.3	1483.3	1483.3	1483.3	1483.3	1483.3
2.5°	1477.7	1474.4	1465.4	1461.0	1449.8	1453.2	1453.2	1444.2	1448.7	1466.6	1464.3
5°	1491.2	1492.3	1471.0	1459.9	1435.3	1428.6	1418.5	1405.1	1404.0	1416.3	1417.4
7.5°	1502.3	1507.9	1477.7	1455.4	1421.9	1398.4	1378.3	1354.8	1349.2	1357.0	1357.0
10°	1520.2	1525.8	1487.8	1456.5	1407.3	1369.3	1334.7	1304.5	1292.2	1292.2	1293.3
12.5°	1567.2	1563.8	1520.2	1472.2	1414.0	1353.7	1298.9	1258.7	1229.6	1228.5	1224.0
15°	1632.0	1619.7	1577.2	1504.6	1429.7	1352.5	1276.5	1213.9	1163.6	1150.2	1144.6
17.5°	1701.3	1685.7	1634.2	1545.9	1454.3	1351.4	1250.8	1163.6	1079.8	1047.4	1037.3
20°	1776.2	1757.2	1704.7	1594.0	1478.9	1343.6	1212.8	1091.0	977.0	915.5	899.8
22.5°	1858.9	1843.3	1779.6	1643.2	1495.6	1326.8	1153.6	999.3	854.0	765.7	759.0
25°	1966.2	1951.7	1857.8	1686.8	1496.7	1295.5	1075.3	882.0	699.7	595.8	574.6
27.5°	2094.8	2069.1	1920.4	1713.6	1478.9	1240.8	973.6	725.5	519.8	432.6	430.4
30°	2234.5	2187.6	1970.7	1720.3	1438.6	1153.6	833.9	533.2	368.9	309.6	309.6
32.5°	2398.8	2312.7	2022.1	1709.1	1372.7	1032.9	638.3	370.0	253.7	225.8	225.8
35°	2639.1	2506.1	2088.1	1681.2	1279.9	866.3	453.8	244.8	200.1	196.7	196.7
37.5°	3019.2	2797.9	2177.5	1634.2	1152.5	660.6	295.1	188.9	191.1	191.1	190.0
40°	3423.8	3135.5	2300.4	1559.3	992.6	456.1	193.4	178.8	182.2	184.4	183.3
42.5°	3789.4	3456.3	2434.6	1458.7	803.7	287.3	176.6	172.1	169.9	172.1	173.3
45°	4105.7	3734.6	2569.8	1328.0	593.6	187.8	172.1	162.1	155.4	156.5	157.6
47.5°	4376.2	3953.7	2661.5	1190.5	393.5	166.6	166.6	148.7	142.0	142.0	142.0
50°	4613.2	4148.2	2717.4	1026.1	234.7	164.3	156.5	136.4	129.7	128.5	129.7
52.5°	4785.3	4284.6	2710.7	826.1	157.6	158.7	143.1	125.2	117.4	119.6	120.7
55°	4921.7	4370.6	2651.4	604.7	147.6	148.7	133.0	112.9	107.3	108.4	108.4
57.5°	5007.8	4391.9	2530.7	393.5	144.2	133.0	119.6	100.6	93.9	93.9	93.9
60°	5035.7	4380.7	2366.4	251.5	143.1	119.6	108.4	90.5	83.8	83.8	83.8
62.5°	5012.3	4315.9	2088.1	181.1	133.0	111.8	98.4	80.5	73.8	71.5	71.5
65°	4928.4	4142.6	1609.6	149.8	119.6	102.8	89.4	72.7	63.7	60.4	59.2
67.5°	4683.6	3767.0	936.7	140.8	108.4	93.9	82.7	66.0	55.9	50.3	49.2
68°	4619.9	3655.2	770.2	139.7	108.4	92.8	81.6	63.7	53.7	48.1	46.9
70°	4163.8	2948.8	221.3	133.0	106.2	89.4	74.9	58.1	48.1	41.4	40.2
72.5°	3135.5	1728.1	138.6	118.5	105.1	79.4	72.7	58.1	42.5	35.8	33.5
75°	1750.5	393.5	117.4	88.3	98.4	78.2	71.5	52.5	38.0	29.1	27.9
77.5°	359.9	114.0	100.6	61.5	74.9	68.2	60.4	44.7	34.7	22.4	21.2
80°	101.7	85.0	89.4	44.7	42.5	48.1	44.7	39.1	25.7	16.8	16.8
82.5°	66.0	62.6	80.5	30.2	22.4	22.4	29.1	23.5	22.4	13.4	13.4
85°	40.2	52.5	39.1	13.4	11.2	8.9	10.1	10.1	13.4	8.9	8.9
87.5°	5.6	5.6	5.6	5.6	5.6	4.5	3.4	3.4	3.4	4.5	4.5
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)