

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: P233776

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233776
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-T4-8027-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 960mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12531 lumens
Efficiency: N/A
Efficacy: 113.9 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

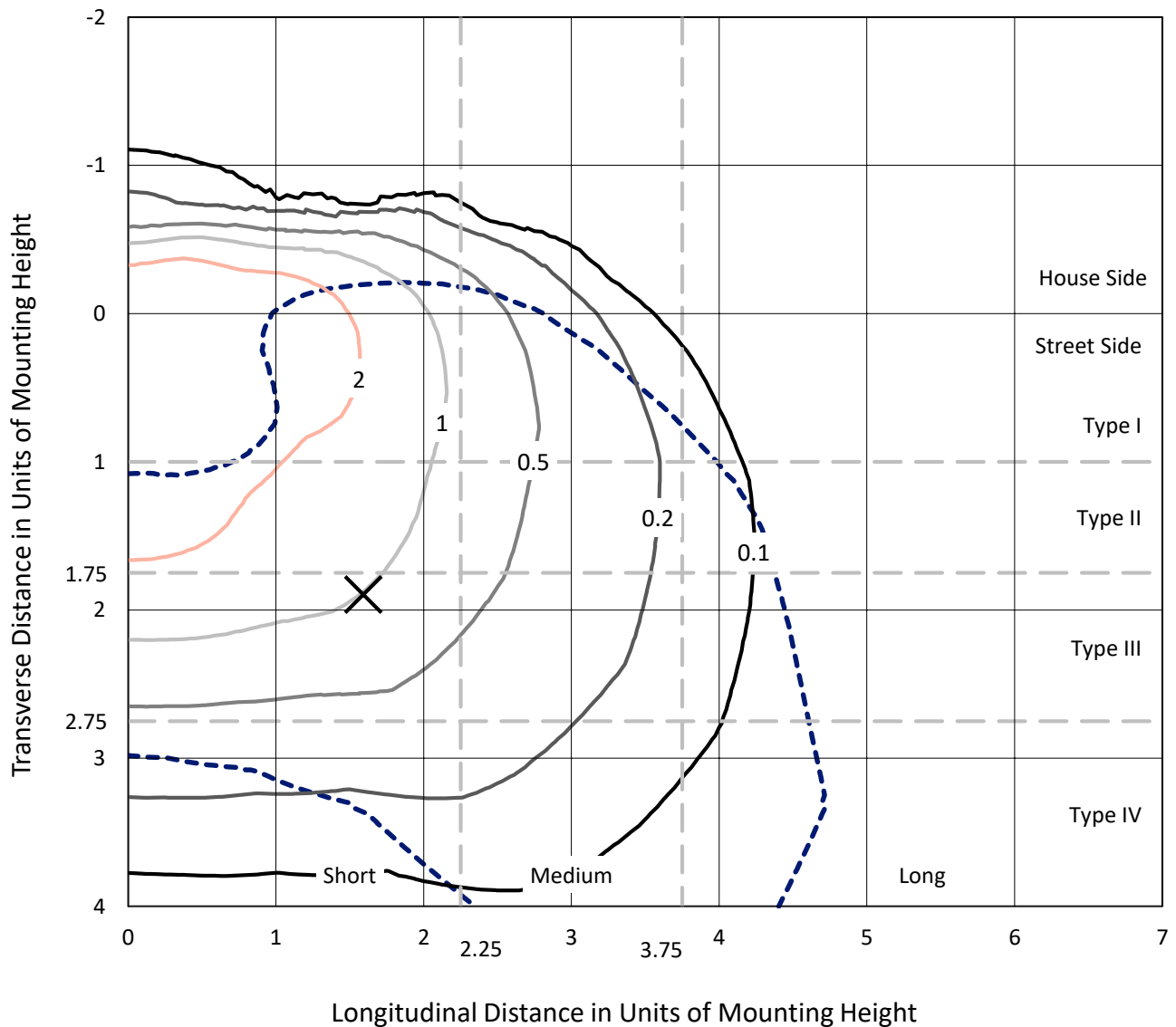


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

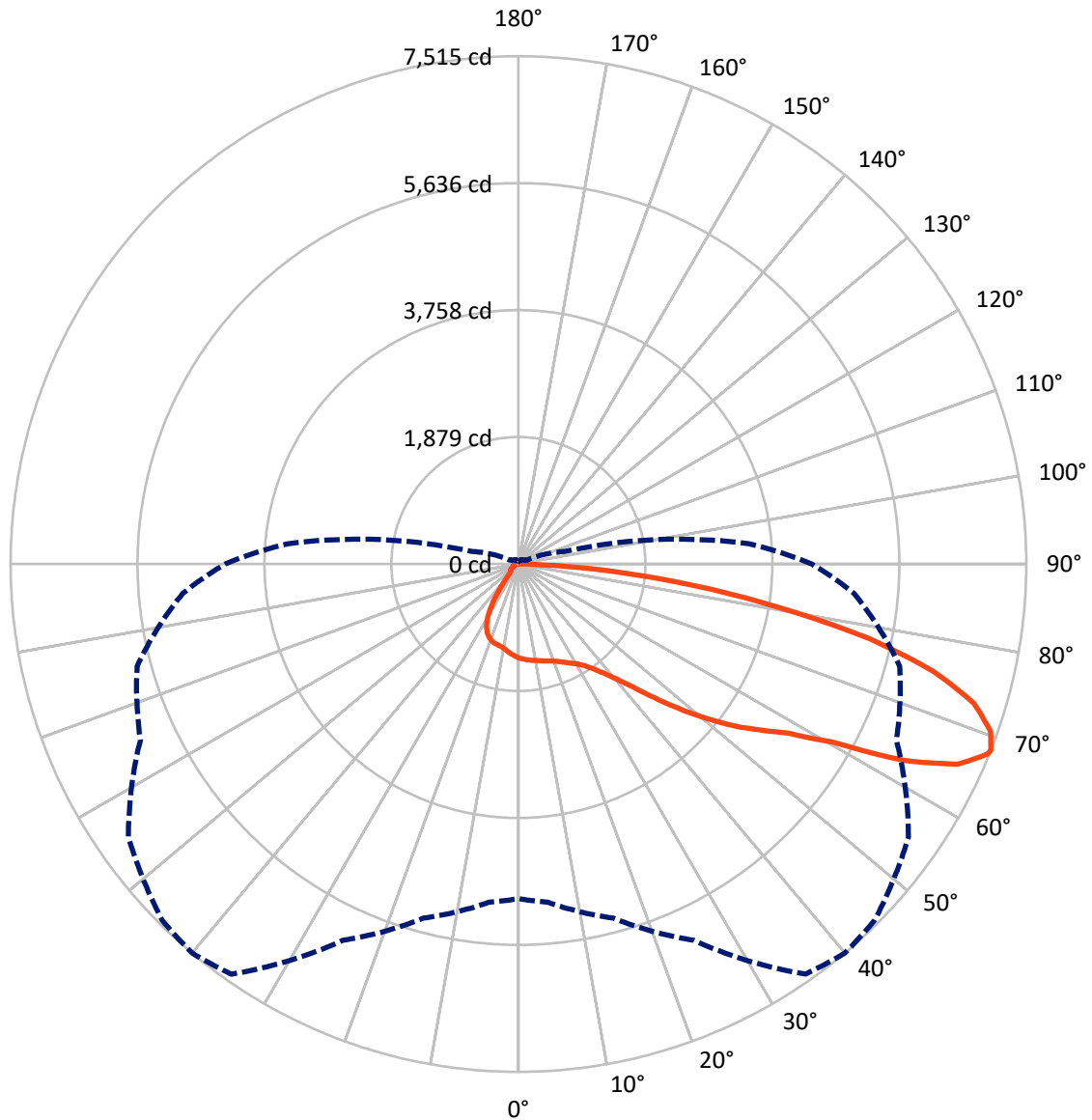


Based on 20 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - Non-Cutoff

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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	2032.8	0.0	2032.8
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	10498.2	0.0	10498.2
	% Fixture	83.8	0.0	83.8
Total	Lumens	12531.0	0.0	12531.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.1	1.1
10°-20°	395.7	3.2
20°-30°	664.1	5.3
30°-40°	983.5	7.8
40°-50°	1663.8	13.3
50°-60°	2539.2	20.3
60°-70°	3324.8	26.5
70°-80°	2390.3	19.1
80°-90°	437.6	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°	12531.0	100.0
0°-180°	12531.0	100.0



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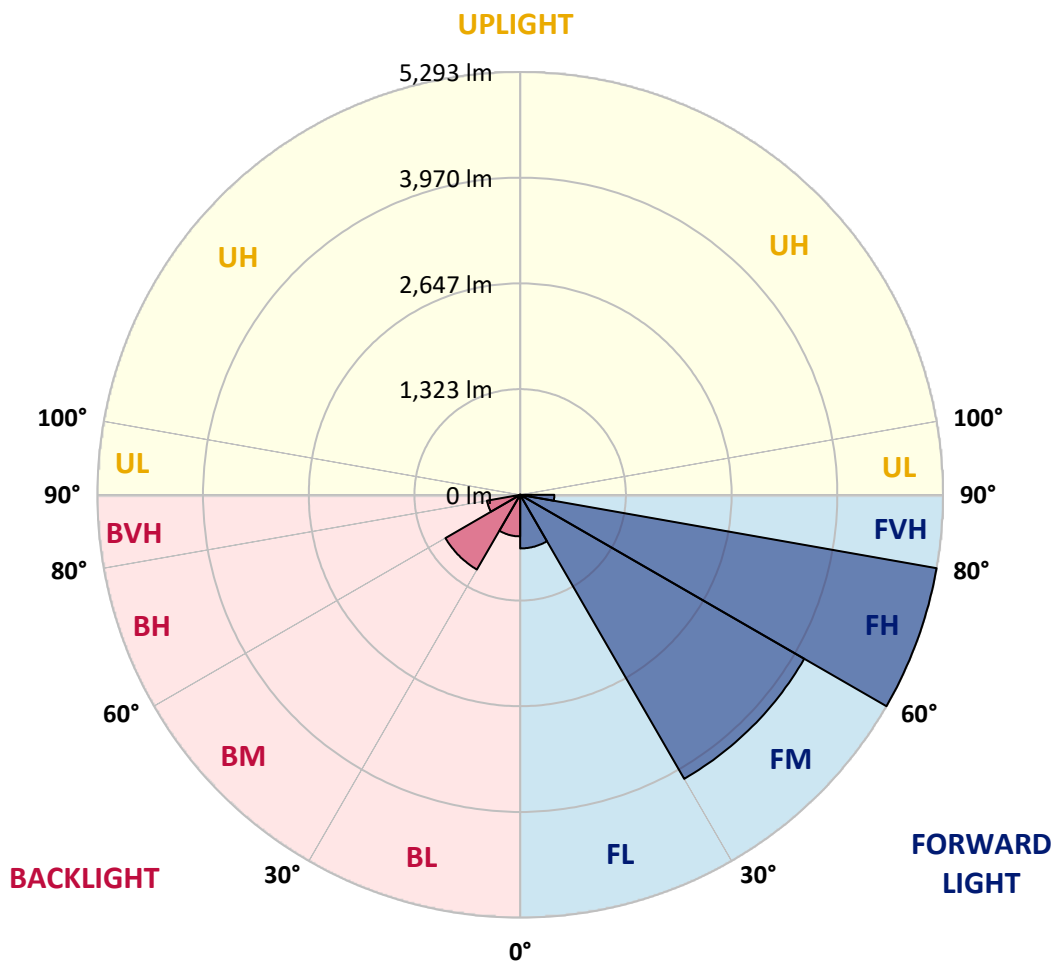
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	671.8	5.4			
FM	(30°-60°)	4106.0	32.8			
FH	(60°-80°)	5293.3	42.2			G3/7500
FVH	(80°-90°)	427.2	3.4			G3/500
BL	(0°-30°)	520.1	4.2	B2/1000		
BM	(30°-60°)	1080.4	8.6	B2/2500		
BH	(60°-80°)	421.9	3.4	B1/500		G1/500
BVH	(80°-90°)	10.4	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°	1392.4	1392.4	1392.4	1392.4	1392.4	1392.4	1392.4	1392.4	1392.4	1392.4	1392.4
2.5°	1436.5	1439.7	1435.5	1425.0	1413.4	1407.1	1406.1	1405.0	1399.8	1392.4	1381.9
5°	1451.2	1452.2	1448.0	1439.7	1429.2	1427.1	1423.9	1425.0	1421.8	1414.5	1402.9
7.5°	1457.5	1459.6	1454.3	1446.0	1437.6	1437.6	1436.5	1439.7	1437.6	1434.4	1420.8
10°	1455.4	1458.5	1455.4	1452.2	1449.1	1452.2	1450.1	1457.5	1458.5	1458.5	1442.8
12.5°	1452.2	1456.4	1457.5	1460.6	1465.9	1469.0	1473.2	1489.0	1496.3	1501.6	1489.0
15°	1455.4	1457.5	1465.9	1471.1	1481.6	1489.0	1498.4	1524.6	1537.2	1551.9	1545.6
17.5°	1469.0	1474.3	1486.9	1492.1	1502.6	1507.9	1519.4	1551.9	1577.1	1603.3	1607.5
20°	1498.4	1501.6	1522.6	1524.6	1529.9	1535.1	1547.7	1583.4	1621.2	1659.0	1669.5
22.5°	1530.9	1538.3	1558.2	1555.1	1565.6	1567.7	1579.2	1618.0	1670.5	1716.7	1739.8
25°	1564.5	1570.8	1590.8	1592.9	1605.4	1613.8	1627.5	1665.3	1732.4	1791.2	1832.1
27.5°	1592.9	1605.4	1624.3	1626.4	1650.6	1661.1	1681.0	1724.0	1804.8	1877.2	1944.4
30°	1645.3	1648.5	1666.3	1672.6	1705.1	1714.6	1737.7	1792.2	1890.9	1981.1	2086.0
32.5°	1710.4	1709.3	1726.1	1736.6	1776.5	1793.3	1822.7	1885.6	1994.7	2107.0	2256.0
35°	1830.0	1819.5	1830.0	1840.5	1886.7	1904.5	1936.0	2030.4	2158.4	2349.4	2533.0
37.5°	2104.9	2089.2	2067.1	2014.7	2026.2	2049.3	2095.5	2223.5	2412.4	2767.0	2944.4
40°	2581.3	2546.7	2454.3	2315.8	2234.0	2236.1	2279.1	2447.0	2724.0	3245.5	3378.8
42.5°	3012.6	2988.4	2877.2	2687.3	2498.4	2487.9	2502.6	2698.8	3064.0	3689.4	3758.6
45°	3418.7	3430.2	3268.6	3119.6	2894.0	2824.7	2806.9	2967.5	3440.7	4085.0	4091.3
47.5°	3794.3	3813.2	3618.0	3477.4	3255.0	3195.2	3139.5	3249.7	3796.4	4421.8	4370.4
50°	4198.3	4213.0	3942.3	3826.8	3640.1	3584.4	3542.5	3590.7	4160.5	4734.5	4619.1
52.5°	4756.5	4674.7	4334.7	4143.7	3977.9	3973.7	3941.2	3971.6	4575.0	5015.7	4807.9
55°	5415.5	5201.4	4840.5	4535.1	4322.1	4333.7	4294.8	4345.2	4985.3	5257.1	4983.2
57.5°	5648.4	5643.2	5475.3	5182.5	4750.2	4724.0	4656.8	4713.5	5339.9	5482.7	5107.0
60°	5971.6	6000.0	6018.9	5842.6	5592.8	5354.6	5130.1	5124.8	5670.5	5688.3	5167.9
62.5°	6180.4	6206.7	6353.6	6330.5	6484.7	6406.0	6150.0	5582.3	5923.4	5821.6	5190.9
65°	5790.1	5855.2	6225.6	6507.8	7033.5	7143.7	7107.0	6285.4	6095.4	5860.4	5147.9
67.5°	5083.9	5168.9	5575.0	6235.0	7373.5	7496.3	7429.1	6993.7	6170.0	5843.6	5029.3
68°	4951.7	5025.2	5423.9	6143.7	7408.1	7515.2	7454.3	7046.1	6173.1	5841.5	4984.2
70°	4315.8	4375.6	4764.9	5675.7	7311.6	7411.3	7402.9	7095.4	6145.8	5776.5	4681.0
72.5°	3348.4	3408.2	3753.4	4707.2	6865.6	7048.2	7040.9	6898.2	6095.4	5444.9	3924.4
75°	2420.8	2486.9	2801.7	3617.0	5941.2	6343.1	6423.9	6560.3	5571.8	4582.3	2792.2
77.5°	1748.2	1796.4	2068.2	2732.4	4853.1	5312.7	5476.4	5613.8	4560.3	3340.0	1328.4
80°	1165.8	1200.4	1462.7	2031.5	3655.8	3926.5	4102.8	3873.0	2594.9	1207.8	143.8
82.5°	717.7	739.8	946.5	1425.0	2528.8	2613.8	2614.9	2066.1	836.3	115.4	77.6
85°	385.1	392.4	514.2	777.5	1335.8	1399.8	1374.6	867.8	168.9	61.9	42.0
87.5°	61.9	67.2	161.6	291.7	412.4	317.9	203.6	64.0	16.8	9.4	6.3
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°	1392.4	1392.4	1392.4	1392.4	1392.4	1392.4	1392.4	1392.4	1392.4	1392.4	1392.4
2.5°	1387.2	1384.0	1375.6	1371.4	1361.0	1364.1	1364.1	1355.7	1359.9	1376.7	1374.6
5°	1399.8	1400.8	1380.9	1370.4	1347.3	1341.0	1331.6	1319.0	1317.9	1329.5	1330.5
7.5°	1410.3	1415.5	1387.2	1366.2	1334.7	1312.7	1293.8	1271.8	1266.5	1273.9	1273.9
10°	1427.1	1432.3	1396.6	1367.3	1321.1	1285.4	1252.9	1224.5	1213.0	1213.0	1214.1
12.5°	1471.1	1468.0	1427.1	1381.9	1327.4	1270.7	1219.3	1181.5	1154.2	1153.2	1149.0
15°	1532.0	1520.5	1480.6	1412.4	1342.1	1269.7	1198.3	1139.6	1092.3	1079.7	1074.5
17.5°	1597.1	1582.4	1534.1	1451.2	1365.2	1268.6	1174.2	1092.3	1013.6	983.2	973.8
20°	1667.4	1649.5	1600.2	1496.3	1388.2	1261.3	1138.5	1024.1	917.1	859.4	844.7
22.5°	1745.0	1730.3	1670.5	1542.5	1404.0	1245.5	1082.9	938.1	801.7	718.8	712.5
25°	1845.7	1832.1	1744.0	1583.4	1405.0	1216.2	1009.4	827.9	656.9	559.3	539.3
27.5°	1966.4	1942.3	1802.7	1608.6	1388.2	1164.7	914.0	681.0	487.9	406.1	404.0
30°	2097.6	2053.5	1849.9	1614.9	1350.5	1082.9	782.8	500.5	346.3	290.7	290.7
32.5°	2251.8	2171.0	1898.2	1604.4	1288.6	969.6	599.2	347.3	238.2	212.0	212.0
35°	2477.4	2352.6	1960.1	1578.2	1201.5	813.2	426.0	229.8	187.8	184.7	184.7
37.5°	2834.2	2626.4	2044.1	1534.1	1081.8	620.1	277.0	177.3	179.4	179.4	178.4
40°	3214.0	2943.3	2159.5	1463.8	931.8	428.1	181.5	167.9	171.0	173.1	172.1
42.5°	3557.2	3244.5	2285.4	1369.4	754.5	269.7	165.8	161.6	159.5	161.6	162.6
45°	3854.1	3505.7	2412.4	1246.6	557.2	176.3	161.6	152.2	145.9	146.9	148.0
47.5°	4108.1	3711.4	2498.4	1117.5	369.4	156.3	156.3	139.6	133.3	133.3	133.3
50°	4330.5	3894.0	2550.9	963.3	220.4	154.2	146.9	128.0	121.7	120.7	121.7
52.5°	4492.1	4022.0	2544.6	775.4	148.0	149.0	134.3	117.5	110.2	112.3	113.3
55°	4620.1	4102.8	2489.0	567.7	138.5	139.6	124.9	106.0	100.7	101.8	101.8
57.5°	4700.9	4122.7	2375.6	369.4	135.4	124.9	112.3	94.4	88.1	88.1	88.1
60°	4727.1	4112.3	2221.4	236.1	134.3	112.3	101.8	85.0	78.7	78.7	78.7
62.5°	4705.1	4051.4	1960.1	170.0	124.9	104.9	92.3	75.6	69.3	67.2	67.2
65°	4626.4	3888.7	1511.0	140.6	112.3	96.5	83.9	68.2	59.8	56.7	55.6
67.5°	4396.6	3536.2	879.3	132.2	101.8	88.1	77.6	61.9	52.5	47.2	46.2
68°	4336.8	3431.2	723.0	131.2	101.8	87.1	76.6	59.8	50.4	45.1	44.1
70°	3908.7	2768.1	207.8	124.9	99.7	83.9	70.3	54.6	45.1	38.8	37.8
72.5°	2943.3	1622.2	130.1	111.2	98.6	74.5	68.2	54.6	39.9	33.6	31.5
75°	1643.2	369.4	110.2	82.9	92.3	73.5	67.2	49.3	35.7	27.3	26.2
77.5°	337.9	107.0	94.4	57.7	70.3	64.0	56.7	42.0	32.5	21.0	19.9
80°	95.5	79.7	83.9	42.0	39.9	45.1	42.0	36.7	24.1	15.7	15.7
82.5°	61.9	58.8	75.6	28.3	21.0	21.0	27.3	22.0	21.0	12.6	12.6
85°	37.8	49.3	36.7	12.6	10.5	8.4	9.4	9.4	12.6	8.4	8.4
87.5°	5.2	5.2	5.2	5.2	5.2	4.2	3.1	3.1	3.1	4.2	4.2
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)