

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: P233669

Luminaire Tested: **VERD-C029-D-U-T2-8027-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233669  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-32)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-C029-D-U-T2-8027-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 2700K, 1030mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8107 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

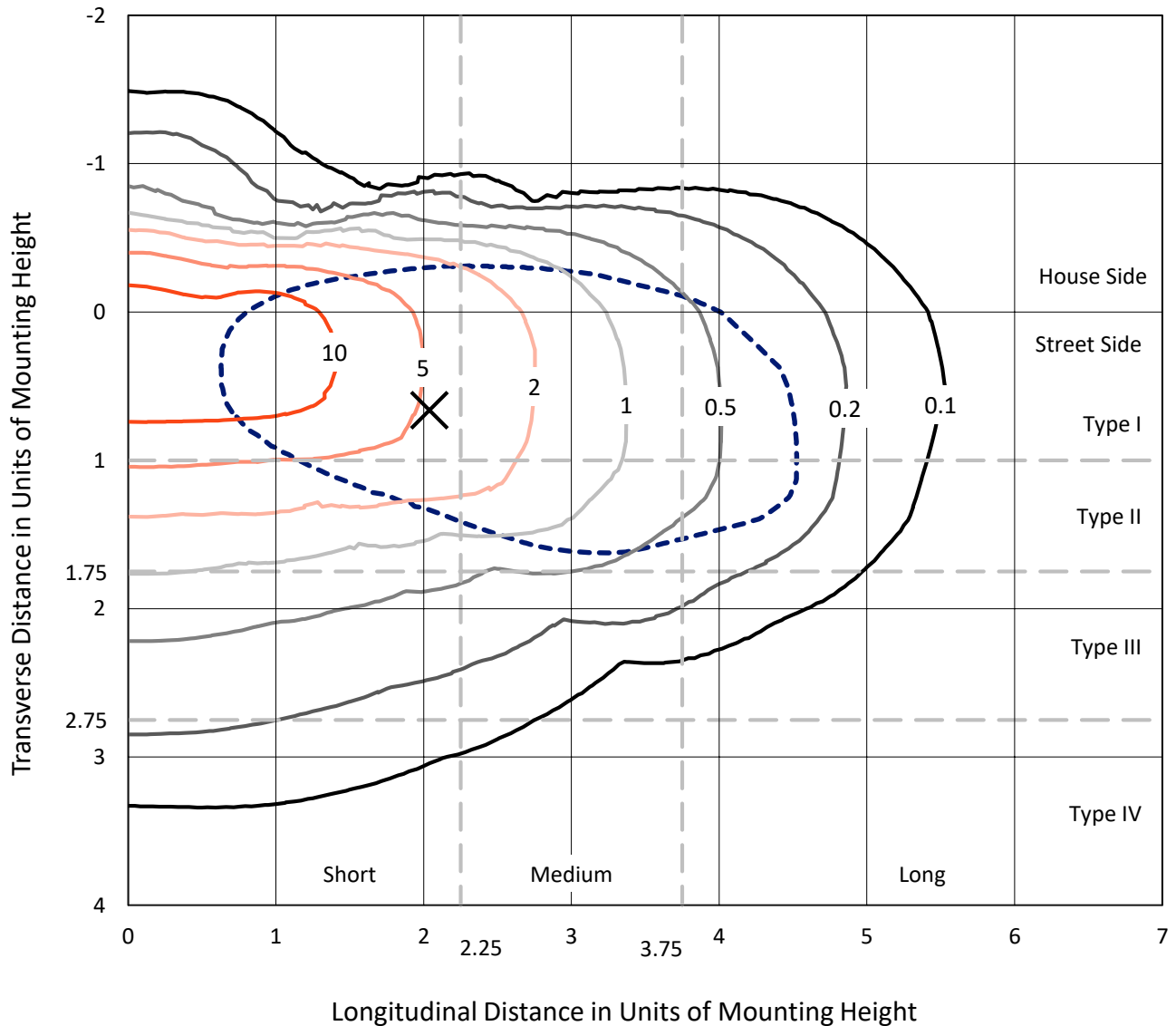
Input Watts (W): 81  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P233669  
 CATALOG NUMBER: VERD-C029-D-U-T2-8027-HSS

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

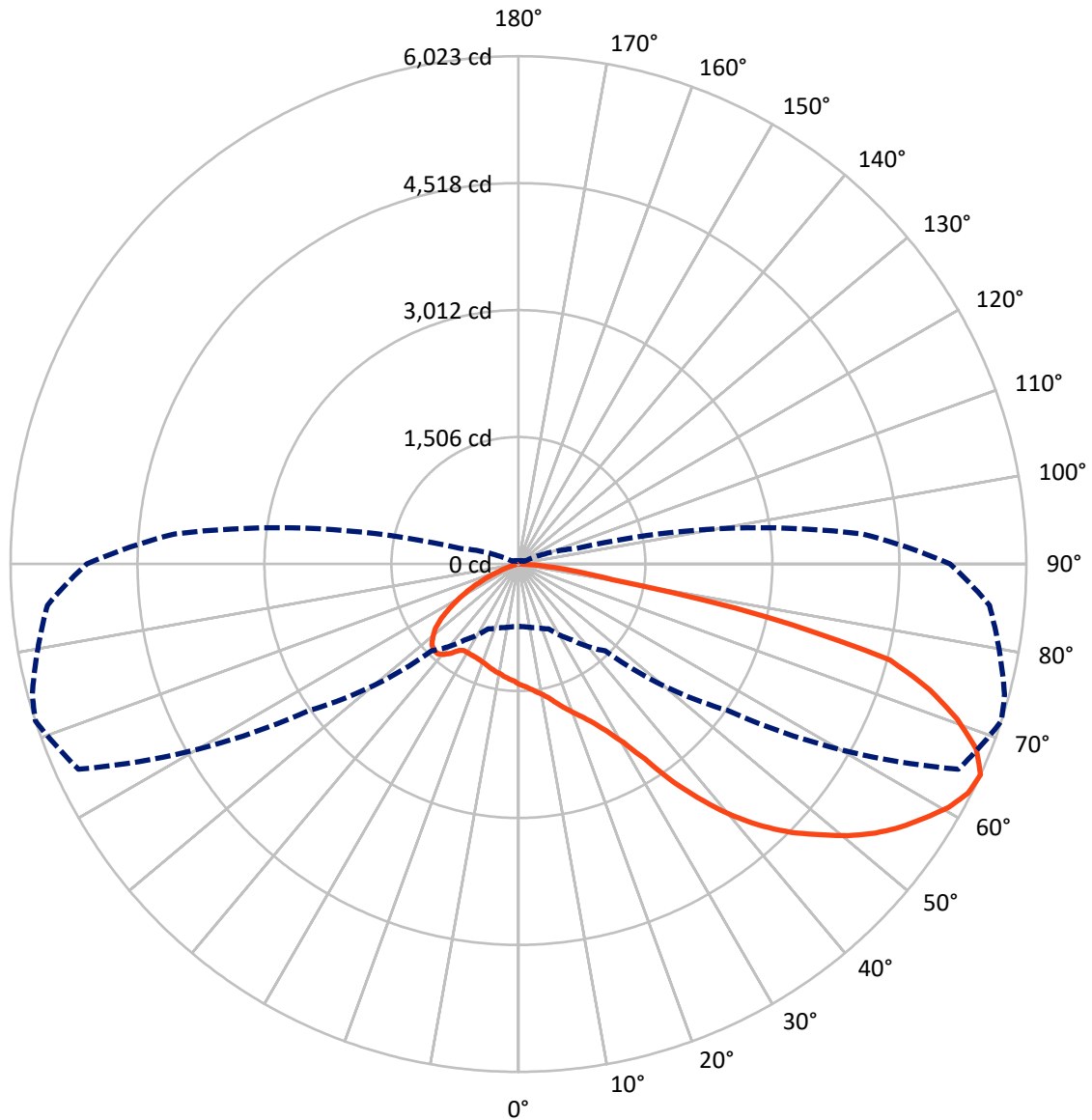


Based on 10 foot mounting height. Maximum calculated value = 17.8 fc  
 Type II - Short - Non-Cutoff

REPORT NUMBER: P233669

CATALOG NUMBER: VERD-C029-D-U-T2-8027-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P233669

CATALOG NUMBER: VERD-C029-D-U-T2-8027-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1684.7	0.0	1684.7
	% Fixture	20.8	0.0	20.8
<b>Street Side</b>	Lumens	6422.3	0.0	6422.3
	% Fixture	79.2	0.0	79.2
<b>Total</b>	Lumens	8107.0	0.0	8107.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.0	1.7
10°-20°	415.7	5.1
20°-30°	694.6	8.6
30°-40°	1027.5	12.7
40°-50°	1420.5	17.5
50°-60°	1662.2	20.5
60°-70°	1652.2	20.4
70°-80°	989.6	12.2
80°-90°	107.7	1.3
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°	8107.0	100.0
0°-180°	8107.0	100.0



REPORT NUMBER: P233669

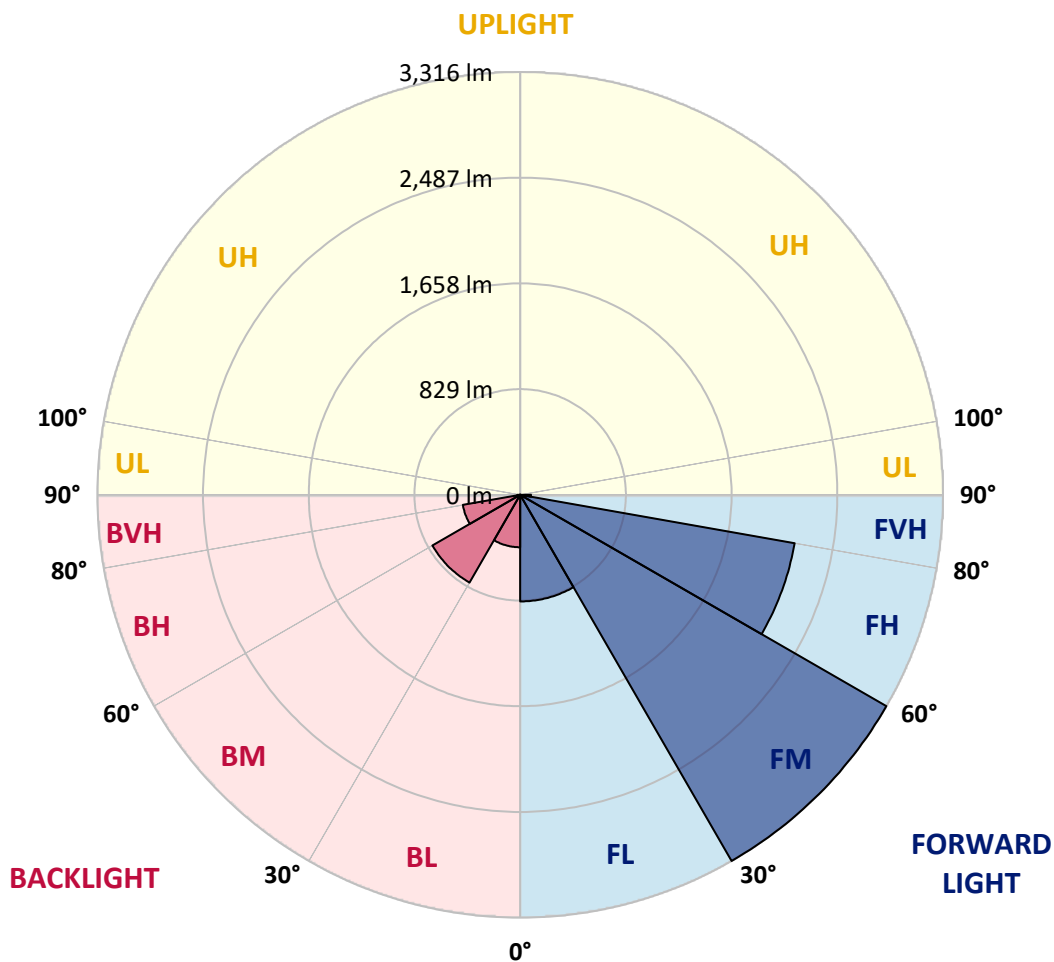
CATALOG NUMBER: VERD-C029-D-U-T2-8027-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	836.0	10.3			
FM	(30°-60°)	3315.5	40.9			
FH	(60°-80°)	2185.7	27.0			G2/5000
FVH	(80°-90°)	85.1	1.1			G1/100
BL	(0°-30°)	411.3	5.1	B1/500		
BM	(30°-60°)	794.7	9.8	B1/1000		
BH	(60°-80°)	456.1	5.6	B1/500		G1/500
BVH	(80°-90°)	22.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





REPORT NUMBER: P233669

CATALOG NUMBER: VERD-C029-D-U-T2-8027-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8
2.5°	1549.2	1550.5	1551.2	1526.7	1513.5	1498.2	1483.7	1467.8	1451.3	1445.3	1423.5
5°	1644.4	1645.7	1641.8	1619.3	1594.8	1572.3	1544.5	1516.1	1488.3	1480.4	1443.3
7.5°	1736.4	1735.7	1732.4	1704.0	1673.5	1643.8	1604.7	1566.4	1530.0	1517.4	1462.5
10°	1812.4	1813.8	1815.7	1785.3	1755.5	1719.8	1672.2	1615.3	1573.6	1553.8	1482.4
12.5°	1895.8	1891.8	1897.1	1867.3	1826.3	1793.9	1750.9	1684.1	1634.5	1609.4	1520.7
15°	1991.0	1991.0	1983.8	1959.3	1917.6	1877.9	1834.9	1773.4	1713.9	1675.5	1572.3
17.5°	2056.5	2052.6	2050.6	2029.4	1993.7	1959.3	1926.2	1863.4	1798.5	1751.6	1620.6
20°	2084.3	2085.6	2094.9	2079.7	2060.5	2040.0	2003.6	1954.7	1883.2	1832.9	1672.2
22.5°	2137.9	2139.2	2150.4	2139.9	2134.6	2129.3	2095.5	2052.6	1976.5	1928.2	1737.0
25°	2141.2	2142.5	2172.9	2190.1	2217.3	2229.8	2206.7	2169.6	2092.2	2045.3	1833.6
27.5°	2151.1	2155.1	2186.2	2233.8	2305.2	2330.4	2317.1	2315.8	2250.3	2200.7	1959.3
30°	2142.5	2146.5	2191.5	2257.6	2356.8	2430.9	2446.1	2485.2	2458.7	2421.7	2133.9
32.5°	2081.7	2096.2	2149.8	2255.0	2401.1	2535.4	2584.4	2718.0	2757.7	2761.7	2484.5
35°	1971.2	1979.1	2076.4	2224.5	2430.9	2634.0	2768.9	3015.7	3183.7	3176.4	2872.8
37.5°	1887.2	1889.8	1989.7	2172.9	2447.5	2739.8	2979.3	3374.2	3567.3	3575.9	3223.4
40°	1779.4	1798.5	1894.5	2110.8	2438.2	2829.1	3188.3	3708.2	3933.1	3923.9	3530.9
42.5°	1678.8	1690.1	1785.3	2013.5	2404.5	2897.3	3393.4	4031.7	4252.6	4222.2	3826.0
45°	1574.3	1593.5	1680.8	1887.8	2337.6	2935.6	3579.2	4338.6	4541.0	4503.3	4085.9
47.5°	1469.8	1483.7	1576.3	1772.7	2212.0	2934.3	3761.8	4626.3	4797.0	4770.5	4332.0
50°	1118.6	1149.0	1392.4	1652.4	2035.4	2878.7	3909.3	4899.5	5065.6	5024.6	4572.1
52.5°	1025.3	1035.2	1103.3	1512.8	1846.8	2746.4	4024.4	5156.2	5302.4	5255.4	4798.3
55°	969.1	981.0	1008.7	1229.7	1692.0	2528.8	4072.0	5395.6	5504.8	5457.2	5000.1
57.5°	894.3	906.2	961.1	1059.0	1530.6	2197.4	4001.9	5608.0	5684.0	5631.8	5187.3
60°	842.7	848.0	900.9	977.7	1354.0	1862.7	3767.8	5780.6	5860.0	5797.8	5372.5
62.5°	795.1	801.0	838.7	914.8	1207.9	1617.3	3403.3	5822.9	5985.0	5936.7	5541.8
65°	740.2	745.5	779.9	847.3	1094.7	1457.2	3027.6	5758.1	6023.4	5968.5	5607.3
67.5°	667.4	674.7	701.8	762.7	946.6	1276.0	2468.6	5638.4	5855.4	5798.5	5473.0
70°	577.5	580.8	613.2	668.1	799.7	1107.3	1936.1	5212.4	5522.6	5459.8	5094.7
72.5°	466.3	472.3	507.3	564.9	656.8	912.2	1383.1	4504.0	5101.3	5077.5	4543.7
75°	311.6	334.7	418.1	476.3	543.1	712.4	928.7	3161.2	4554.2	4572.8	3881.5
77.5°	59.5	61.5	175.3	260.6	317.5	435.2	574.8	1553.1	3001.8	3326.5	2927.0
80°	39.0	42.3	74.7	182.6	210.3	215.6	295.0	680.7	1131.1	1430.8	1688.1
82.5°	20.5	24.5	45.0	105.8	96.6	53.6	96.6	351.2	627.1	720.3	851.3
85°	8.6	9.9	21.8	36.4	27.1	22.5	22.5	140.2	277.8	321.5	334.0
87.5°	1.3	1.3	4.6	6.6	4.0	2.6	2.0	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P233669

CATALOG NUMBER: VERD-C029-D-U-T2-8027-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8
2.5°	1423.5	1411.6	1395.0	1375.9	1362.0	1354.7	1348.7	1332.9	1327.6	1338.2	1335.5
5°	1429.4	1415.6	1377.8	1346.8	1315.7	1296.5	1275.3	1247.5	1235.6	1242.2	1240.3
7.5°	1433.4	1416.2	1360.0	1311.7	1259.4	1223.1	1195.3	1158.9	1141.0	1147.7	1139.7
10°	1439.4	1413.6	1338.8	1274.7	1206.5	1153.6	1112.6	1070.3	1051.7	1057.0	1050.4
12.5°	1464.5	1422.8	1328.9	1242.9	1159.6	1093.4	1041.8	996.8	970.4	975.7	970.4
15°	1505.5	1441.4	1314.3	1202.6	1110.0	1034.5	975.0	923.4	893.0	900.3	893.7
17.5°	1548.5	1463.8	1301.1	1157.6	1057.0	973.0	910.8	867.2	818.2	822.9	813.0
20°	1585.6	1485.0	1293.8	1115.2	1007.4	907.5	832.8	803.0	735.6	718.4	707.1
22.5°	1637.1	1516.1	1287.9	1080.8	945.9	842.1	753.4	697.9	625.1	588.7	585.4
25°	1710.6	1562.4	1287.2	1053.7	890.3	773.3	649.6	556.3	492.1	449.1	443.2
27.5°	1803.8	1623.9	1294.5	1026.6	834.8	686.6	521.9	418.7	361.2	328.1	322.1
30°	1938.1	1704.6	1303.8	995.5	772.6	574.2	388.9	308.2	260.6	236.8	232.2
32.5°	2225.9	1911.7	1317.7	963.1	697.9	432.6	282.4	223.6	187.2	172.6	179.9
35°	2572.5	2192.8	1379.8	921.4	600.0	308.2	203.7	159.4	134.3	137.6	141.6
37.5°	2875.4	2461.3	1519.4	867.9	469.0	226.2	140.2	119.1	119.1	129.6	138.9
40°	3161.2	2703.4	1644.4	795.1	328.8	156.1	108.5	110.5	108.5	115.1	113.1
42.5°	3431.1	2933.0	1742.3	708.4	215.0	107.8	98.6	102.5	99.2	100.5	94.6
45°	3686.4	3170.4	1796.6	580.8	142.9	93.9	90.6	97.2	96.6	95.3	89.3
47.5°	3922.5	3379.5	1823.7	418.7	98.6	84.7	85.3	90.0	91.9	90.6	87.3
50°	4154.1	3587.8	1799.2	250.7	88.6	77.4	82.0	82.0	86.0	78.7	76.1
52.5°	4375.6	3796.9	1721.8	152.1	81.4	72.1	76.1	74.7	76.7	69.5	68.1
55°	4584.0	3952.3	1569.0	119.7	76.7	68.8	69.5	70.8	67.5	59.5	62.2
57.5°	4804.3	4084.6	1356.0	108.5	74.7	64.2	65.5	64.8	59.5	52.3	52.3
60°	4985.5	4180.5	1142.4	98.6	73.4	62.8	58.2	56.9	48.9	45.0	44.3
62.5°	5110.5	4207.6	934.0	88.0	69.5	58.2	52.3	48.3	41.0	37.0	35.7
65°	5120.5	4091.9	711.1	79.4	65.5	54.2	48.3	39.7	32.4	29.1	27.8
67.5°	4917.4	3770.4	501.4	72.8	58.9	50.3	42.3	31.8	25.8	23.2	22.5
70°	4492.7	3370.9	306.9	63.5	53.6	47.0	43.7	25.8	21.2	17.9	17.9
72.5°	3942.4	2919.7	179.9	54.2	45.0	37.7	29.1	21.8	17.9	13.9	13.9
75°	3378.8	2317.8	110.5	41.0	33.1	29.8	22.5	18.5	14.6	10.6	10.6
77.5°	2432.9	1711.2	86.0	26.5	20.5	21.2	16.5	14.6	11.9	8.6	8.6
80°	1492.9	1041.8	61.5	17.9	11.9	11.9	11.9	11.2	8.6	7.3	6.6
82.5°	756.7	476.3	30.4	10.6	7.3	7.3	7.3	7.9	6.6	5.3	5.3
85°	265.9	133.6	9.3	5.3	4.6	4.6	4.0	4.0	3.3	2.6	2.6
87.5°	0.7	1.3	1.3	2.0	2.6	2.6	2.0	1.3	0.7	0.0	0.0
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)