

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: P233666

Luminaire Tested: **VERD-C01H-D-U-T2-8027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233666
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-C01H-D-U-T2-8027-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 1210mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7104 lumens
Efficiency: N/A
Efficacy: 97.3 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

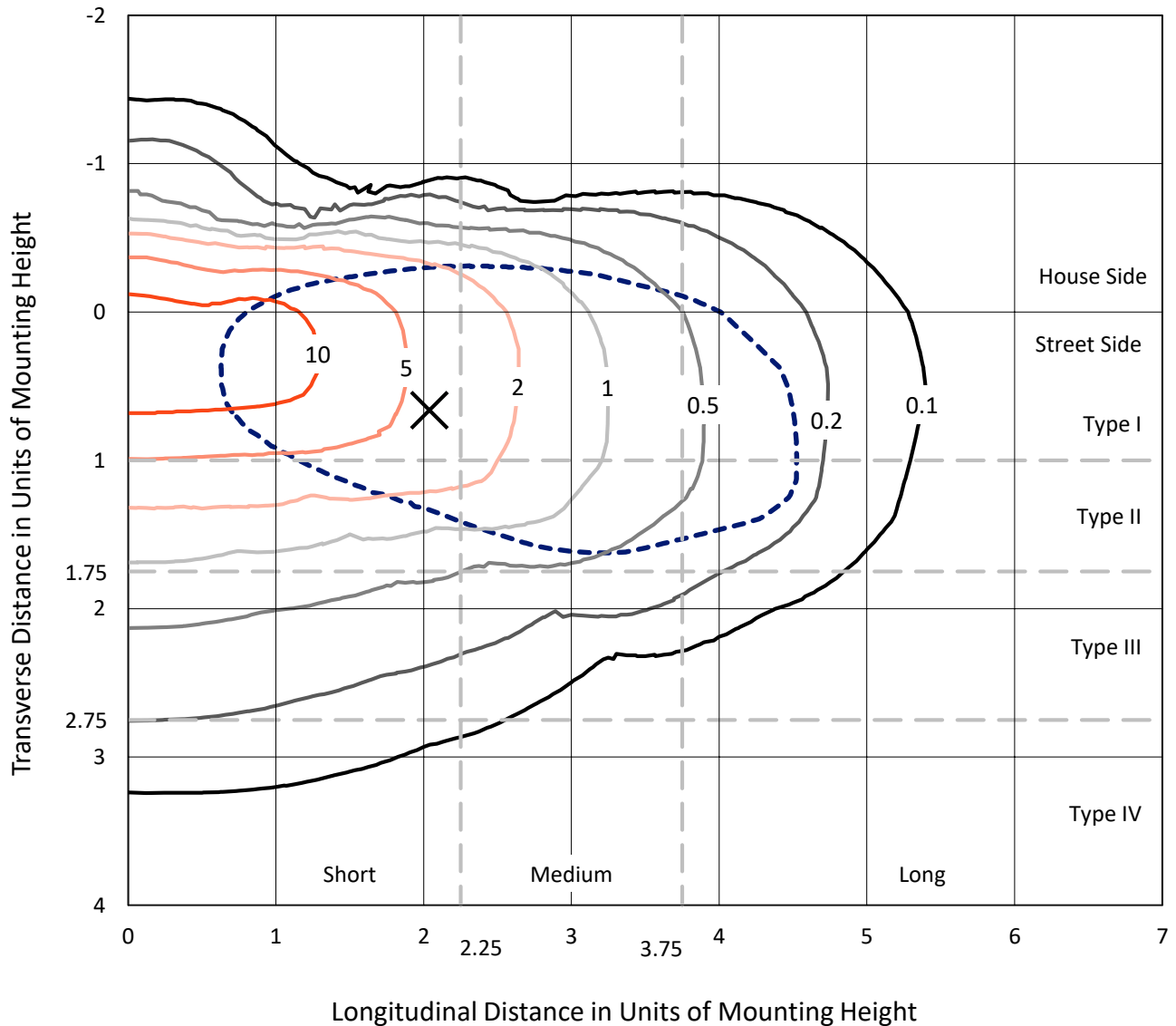
Input Watts (W): 73
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P233666
 CATALOG NUMBER: VERD-C01H-D-U-T2-8027-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

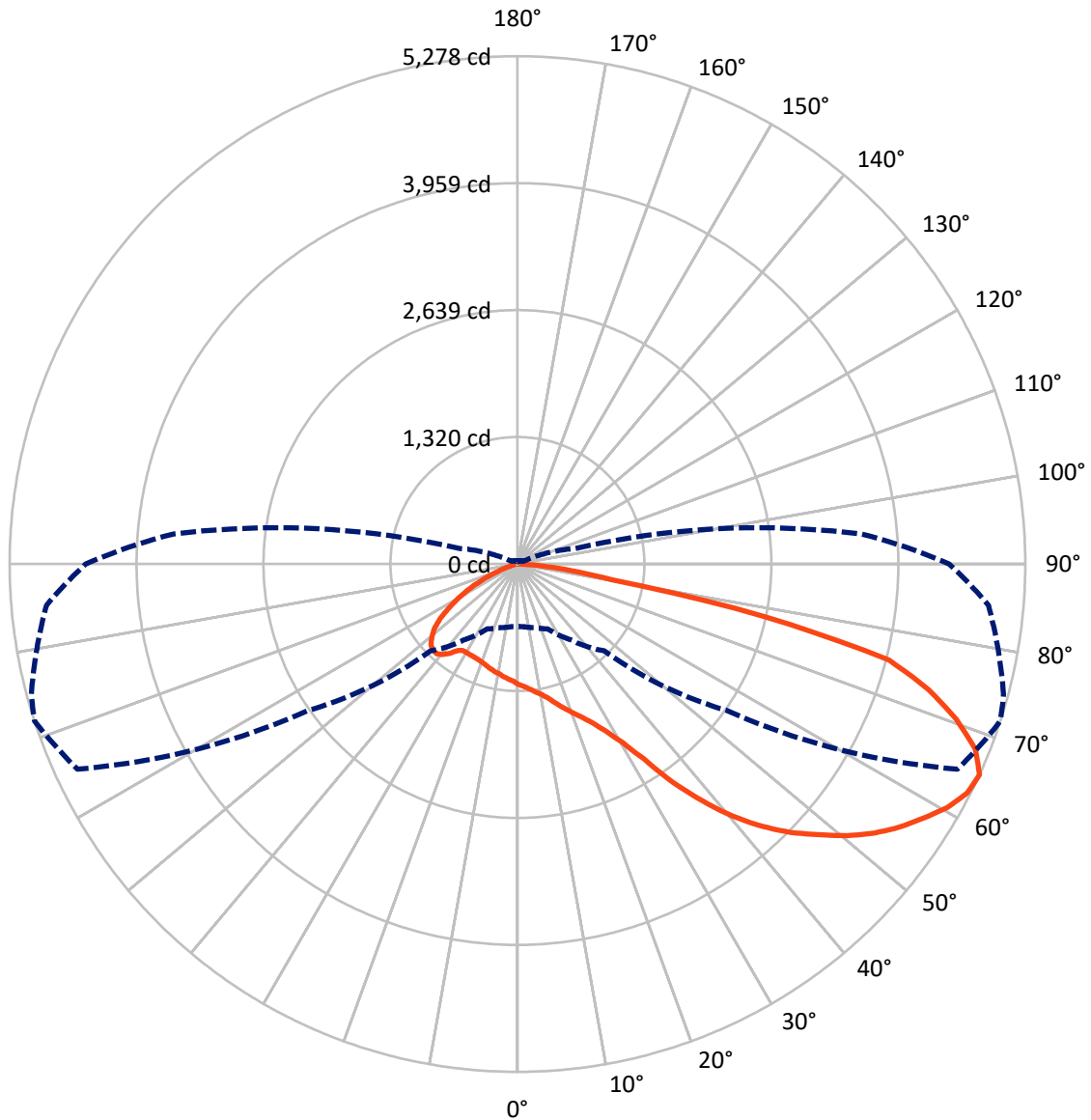


Based on 10 foot mounting height. Maximum calculated value = 15.6 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P233666

CATALOG NUMBER: VERD-C01H-D-U-T2-8027-HSS

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: VERD-C01H-D-U-T2-8027-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1476.3	0.0	1476.3
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	5627.8	0.0	5627.8
	% Fixture	79.2	0.0	79.2
Total	Lumens	7104.0	0.0	7104.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.0	1.7
10°-20°	364.3	5.1
20°-30°	608.7	8.6
30°-40°	900.4	12.7
40°-50°	1244.7	17.5
50°-60°	1456.6	20.5
60°-70°	1447.8	20.4
70°-80°	867.1	12.2
80°-90°	94.4	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°	7104.0	100.0
0°-180°	7104.0	100.0



REPORT NUMBER: P233666

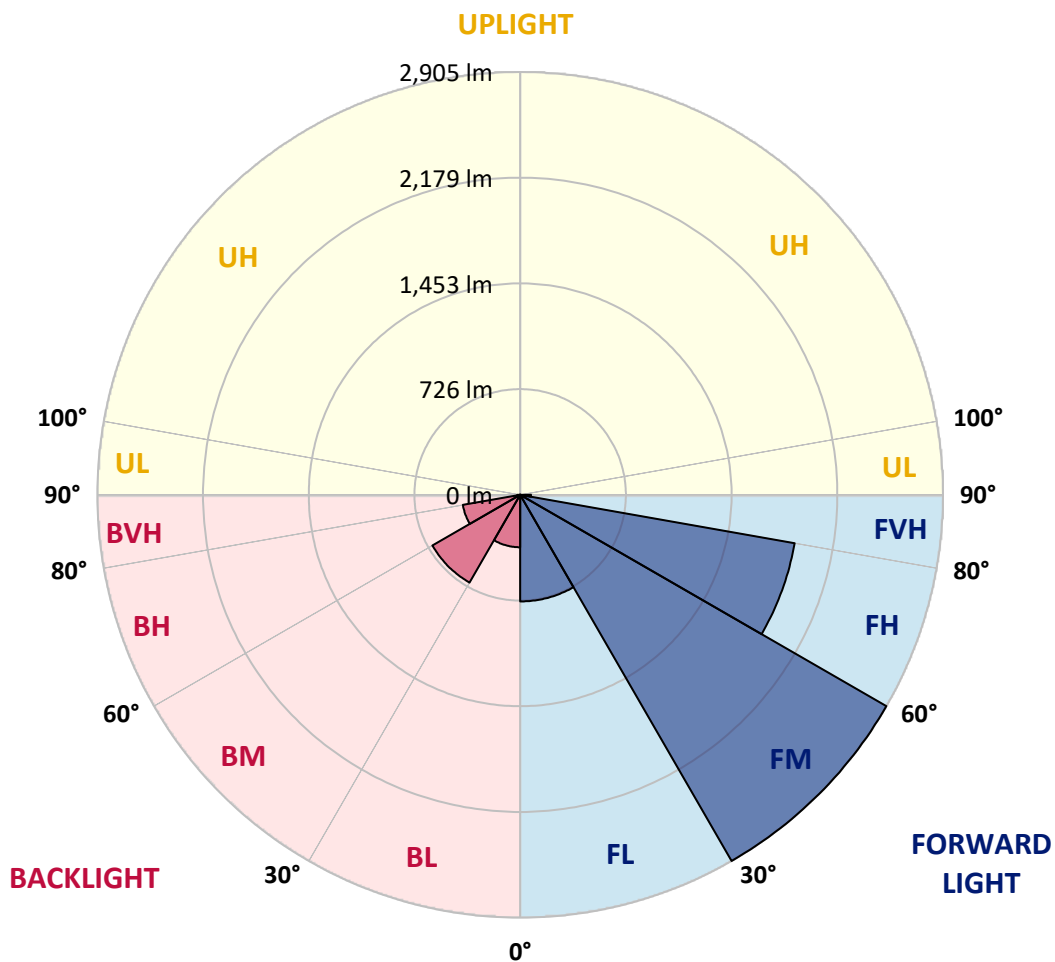
CATALOG NUMBER: VERD-C01H-D-U-T2-8027-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	732.6	10.3			
FM	(30°-60°)	2905.3	40.9			
FH	(60°-80°)	1915.3	27.0			G2/5000
FVH	(80°-90°)	74.6	1.1			G1/100
BL	(0°-30°)	360.4	5.1	B1/500		
BM	(30°-60°)	696.4	9.8	B1/1000		
BH	(60°-80°)	399.7	5.6	B1/500		G1/500
BVH	(80°-90°)	19.8	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: P233666

CATALOG NUMBER: VERD-C01H-D-U-T2-8027-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1357.5	1358.7	1359.2	1337.8	1326.2	1312.9	1300.1	1286.2	1271.7	1266.5	1247.4
5°	1441.0	1442.1	1438.7	1418.9	1397.5	1377.8	1353.4	1328.5	1304.2	1297.2	1264.8
7.5°	1521.5	1521.0	1518.1	1493.1	1466.5	1440.4	1406.2	1372.6	1340.7	1329.7	1281.6
10°	1588.2	1589.4	1591.1	1564.4	1538.4	1507.1	1465.3	1415.5	1379.0	1361.6	1299.0
12.5°	1661.2	1657.8	1662.4	1636.3	1600.4	1572.0	1534.3	1475.8	1432.3	1410.3	1332.6
15°	1744.7	1744.7	1738.3	1716.9	1680.4	1645.6	1607.9	1554.0	1501.8	1468.2	1377.8
17.5°	1802.1	1798.6	1796.9	1778.3	1747.0	1716.9	1687.9	1632.8	1576.0	1534.9	1420.1
20°	1826.4	1827.6	1835.7	1822.4	1805.6	1787.6	1755.7	1712.8	1650.2	1606.2	1465.3
22.5°	1873.4	1874.5	1884.4	1875.1	1870.5	1865.8	1836.3	1798.6	1732.0	1689.6	1522.1
25°	1876.3	1877.4	1904.1	1919.2	1942.9	1954.0	1933.7	1901.2	1833.4	1792.2	1606.7
27.5°	1885.0	1888.5	1915.7	1957.4	2020.0	2042.1	2030.5	2029.3	1971.9	1928.4	1716.9
30°	1877.4	1880.9	1920.3	1978.3	2065.2	2130.2	2143.5	2177.7	2154.5	2122.0	1869.9
32.5°	1824.1	1836.9	1883.8	1976.0	2104.1	2221.7	2264.6	2381.7	2416.5	2420.0	2177.1
35°	1727.3	1734.3	1819.5	1949.3	2130.2	2308.1	2426.4	2642.6	2789.8	2783.4	2517.4
37.5°	1653.7	1656.0	1743.5	1904.1	2144.7	2400.9	2610.7	2956.7	3126.0	3133.5	2824.6
40°	1559.2	1576.0	1660.1	1849.6	2136.5	2479.1	2793.8	3249.4	3446.5	3438.4	3094.1
42.5°	1471.1	1481.0	1564.4	1764.4	2107.0	2538.8	2973.5	3532.9	3726.5	3699.8	3352.6
45°	1379.5	1396.3	1472.9	1654.3	2048.4	2572.4	3136.4	3801.8	3979.2	3946.2	3580.4
47.5°	1288.0	1300.1	1381.3	1553.4	1938.3	2571.3	3296.4	4054.0	4203.5	4180.3	3796.0
50°	980.2	1006.8	1220.1	1447.9	1783.5	2522.6	3425.6	4293.4	4438.8	4402.9	4006.4
52.5°	898.4	907.1	966.8	1325.6	1618.3	2406.6	3526.5	4518.3	4646.4	4605.2	4204.7
55°	849.2	859.6	883.9	1077.5	1482.7	2215.9	3568.2	4728.1	4823.7	4782.0	4381.5
57.5°	783.7	794.1	842.2	928.0	1341.3	1925.5	3506.8	4914.2	4980.8	4935.0	4545.5
60°	738.5	743.1	789.5	856.7	1186.5	1632.3	3301.6	5065.4	5135.0	5080.5	4707.8
62.5°	696.7	701.9	735.0	801.6	1058.4	1417.2	2982.2	5102.5	5244.5	5202.2	4856.2
65°	648.6	653.2	683.4	742.5	959.3	1276.9	2653.0	5045.7	5278.2	5230.1	4913.6
67.5°	584.9	591.2	615.0	668.3	829.5	1118.1	2163.2	4940.8	5130.9	5081.1	4795.9
70°	506.0	508.9	537.3	585.4	700.8	970.3	1696.6	4567.5	4839.4	4784.3	4464.4
72.5°	408.6	413.9	444.6	495.0	575.6	799.3	1212.0	3946.7	4470.1	4449.3	3981.5
75°	273.0	293.3	366.3	417.3	475.9	624.3	813.8	2770.1	3990.8	4007.0	3401.3
77.5°	52.2	53.9	153.6	228.4	278.2	381.4	503.7	1361.0	2630.4	2915.0	2564.9
80°	34.2	37.1	65.5	160.0	184.3	189.0	258.5	596.4	991.2	1253.8	1479.2
82.5°	18.0	21.4	39.4	92.7	84.6	47.0	84.6	307.8	549.5	631.2	746.0
85°	7.5	8.7	19.1	31.9	23.8	19.7	19.7	122.9	243.4	281.7	292.7
87.5°	1.2	1.2	4.1	5.8	3.5	2.3	1.7	0.6	0.6	0.6	0.6
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: P233666

CATALOG NUMBER: VERD-C01H-D-U-T2-8027-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1247.4	1236.9	1222.5	1205.6	1193.5	1187.1	1181.9	1168.0	1163.3	1172.6	1170.3
5°	1252.6	1240.4	1207.4	1180.1	1152.9	1136.1	1117.5	1093.2	1082.8	1088.6	1086.8
7.5°	1256.1	1241.0	1191.7	1149.4	1103.6	1071.7	1047.4	1015.5	999.9	1005.7	998.7
10°	1261.3	1238.7	1173.2	1117.0	1057.3	1010.9	974.9	937.9	921.6	926.3	920.5
12.5°	1283.3	1246.8	1164.5	1089.1	1016.1	958.1	912.9	873.5	850.3	855.0	850.3
15°	1319.3	1263.0	1151.7	1053.8	972.6	906.6	854.4	809.2	782.5	788.9	783.1
17.5°	1356.9	1282.7	1140.1	1014.4	926.3	852.6	798.2	759.9	717.0	721.1	712.4
20°	1389.4	1301.3	1133.8	977.3	882.8	795.3	729.8	703.7	644.6	629.5	619.6
22.5°	1434.6	1328.5	1128.6	947.1	828.9	737.9	660.2	611.5	547.8	515.9	513.0
25°	1498.9	1369.1	1128.0	923.4	780.2	677.6	569.2	487.5	431.2	393.6	388.4
27.5°	1580.7	1423.0	1134.3	899.6	731.5	601.7	457.3	366.9	316.5	287.5	282.3
30°	1698.3	1493.7	1142.5	872.4	677.0	503.1	340.8	270.1	228.4	207.5	203.5
32.5°	1950.5	1675.1	1154.6	843.9	611.5	379.1	247.5	195.9	164.0	151.3	157.7
35°	2254.2	1921.5	1209.1	807.4	525.7	270.1	178.5	139.7	117.7	120.6	124.0
37.5°	2519.7	2156.8	1331.4	760.5	411.0	198.2	122.9	104.3	104.3	113.6	121.7
40°	2770.1	2369.0	1441.0	696.7	288.1	136.8	95.1	96.8	95.1	100.9	99.1
42.5°	3006.6	2570.1	1526.8	620.8	188.4	94.5	86.4	89.8	86.9	88.1	82.9
45°	3230.3	2778.2	1574.3	508.9	125.2	82.3	79.4	85.2	84.6	83.5	78.3
47.5°	3437.2	2961.4	1598.1	366.9	86.4	74.2	74.8	78.8	80.6	79.4	76.5
50°	3640.1	3143.9	1576.6	219.7	77.7	67.8	71.9	71.9	75.4	69.0	66.7
52.5°	3834.3	3327.1	1508.8	133.3	71.3	63.2	66.7	65.5	67.2	60.9	59.7
55°	4016.9	3463.3	1374.9	104.9	67.2	60.3	60.9	62.0	59.1	52.2	54.5
57.5°	4209.9	3579.2	1188.3	95.1	65.5	56.2	57.4	56.8	52.2	45.8	45.8
60°	4368.7	3663.3	1001.0	86.4	64.3	55.1	51.0	49.8	42.9	39.4	38.8
62.5°	4478.3	3687.1	818.4	77.1	60.9	51.0	45.8	42.3	35.9	32.5	31.3
65°	4487.0	3585.6	623.1	69.6	57.4	47.5	42.3	34.8	28.4	25.5	24.3
67.5°	4309.0	3303.9	439.4	63.8	51.6	44.1	37.1	27.8	22.6	20.3	19.7
70°	3936.9	2953.8	269.0	55.6	47.0	41.2	38.3	22.6	18.5	15.7	15.7
72.5°	3454.6	2558.5	157.7	47.5	39.4	33.0	25.5	19.1	15.7	12.2	12.2
75°	2960.8	2031.0	96.8	35.9	29.0	26.1	19.7	16.2	12.8	9.3	9.3
77.5°	2131.9	1499.5	75.4	23.2	18.0	18.5	14.5	12.8	10.4	7.5	7.5
80°	1308.2	912.9	53.9	15.7	10.4	10.4	10.4	9.9	7.5	6.4	5.8
82.5°	663.1	417.3	26.7	9.3	6.4	6.4	6.4	7.0	5.8	4.6	4.6
85°	233.0	117.1	8.1	4.6	4.1	4.1	3.5	3.5	2.9	2.3	2.3
87.5°	0.6	1.2	1.2	1.7	2.3	2.3	1.7	1.2	0.6	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)