

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: P233665

Luminaire Tested: **VERD-C01-D-U-T2-8027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233665
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-C01-D-U-T2-8027-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 1230mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5711 lumens
Efficiency: N/A
Efficacy: 102.0 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 - G1

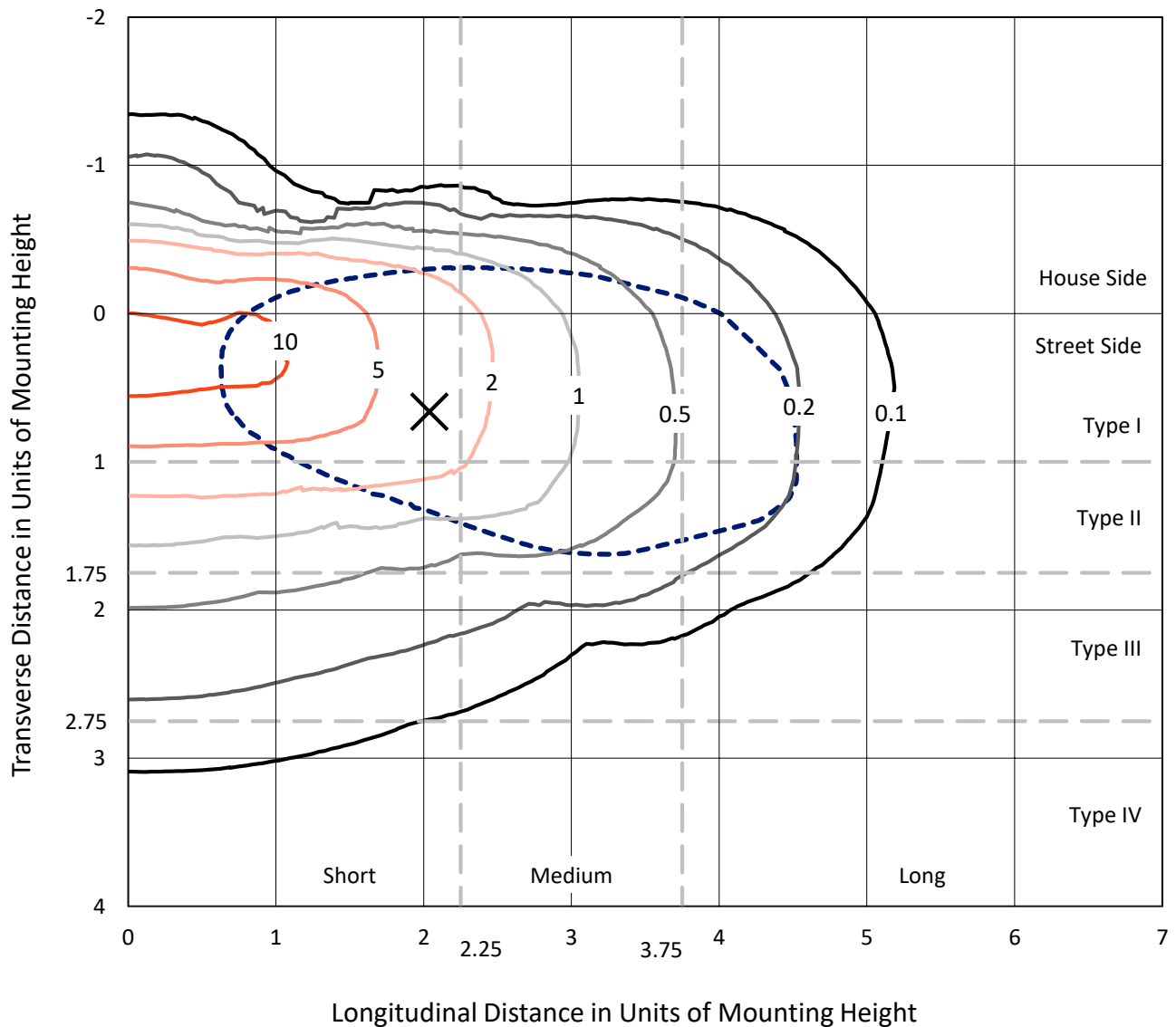
Input Watts (W): 56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P233665
 CATALOG NUMBER: VERD-C01-D-U-T2-8027-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

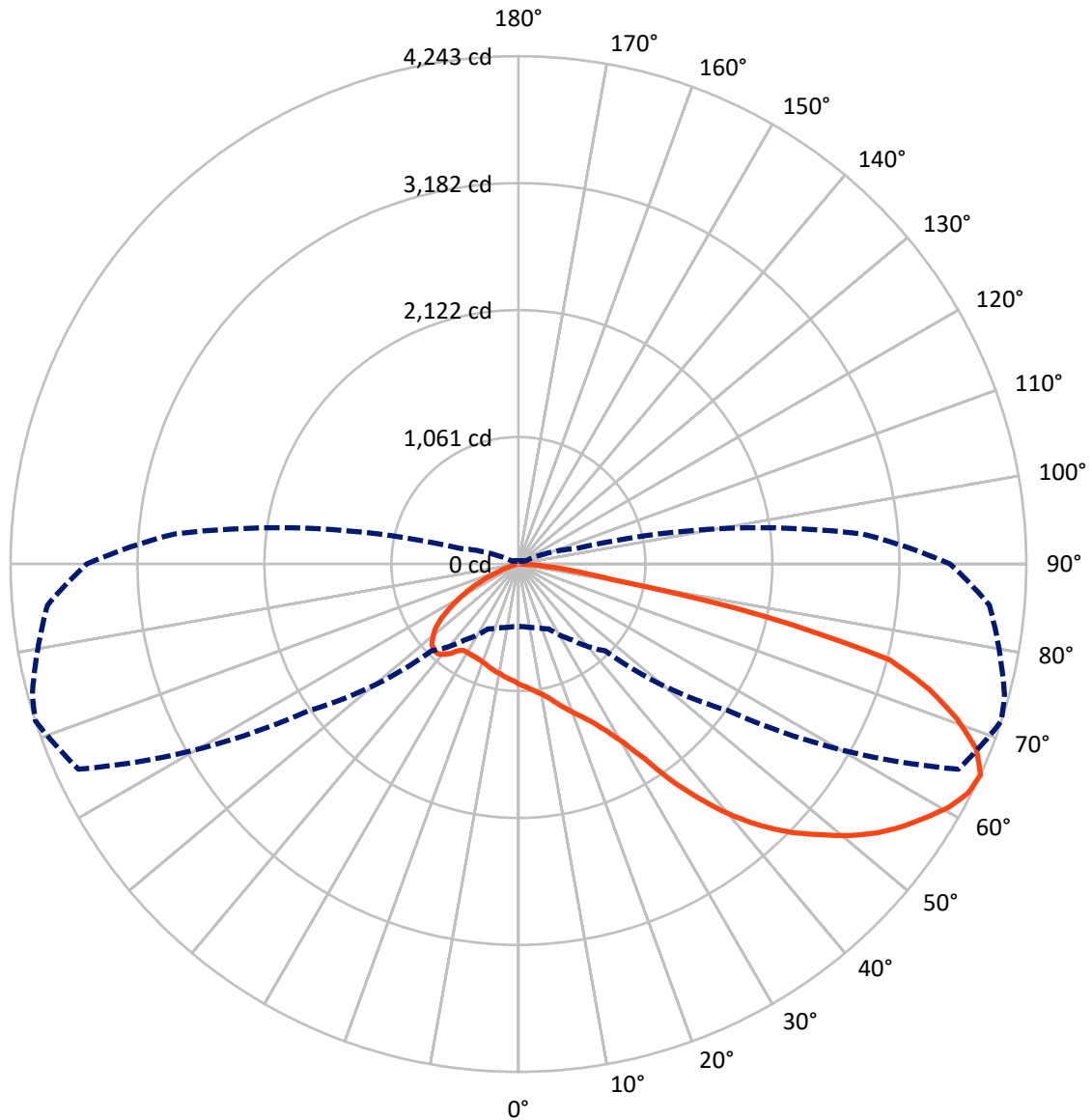


Based on 10 foot mounting height. Maximum calculated value = 12.6 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P233665

CATALOG NUMBER: VERD-C01-D-U-T2-8027-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P233665

CATALOG NUMBER: VERD-C01-D-U-T2-8027-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1186.8	0.0	1186.8
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	4524.2	0.0	4524.2
	% Fixture	79.2	0.0	79.2
Total	Lumens	5711.0	0.0	5711.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.5	1.7
10°-20°	292.8	5.1
20°-30°	489.3	8.6
30°-40°	723.8	12.7
40°-50°	1000.7	17.5
50°-60°	1171.0	20.5
60°-70°	1163.9	20.4
70°-80°	697.1	12.2
80°-90°	75.9	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°	5711.0	100.0
0°-180°	5711.0	100.0



REPORT NUMBER: P233665

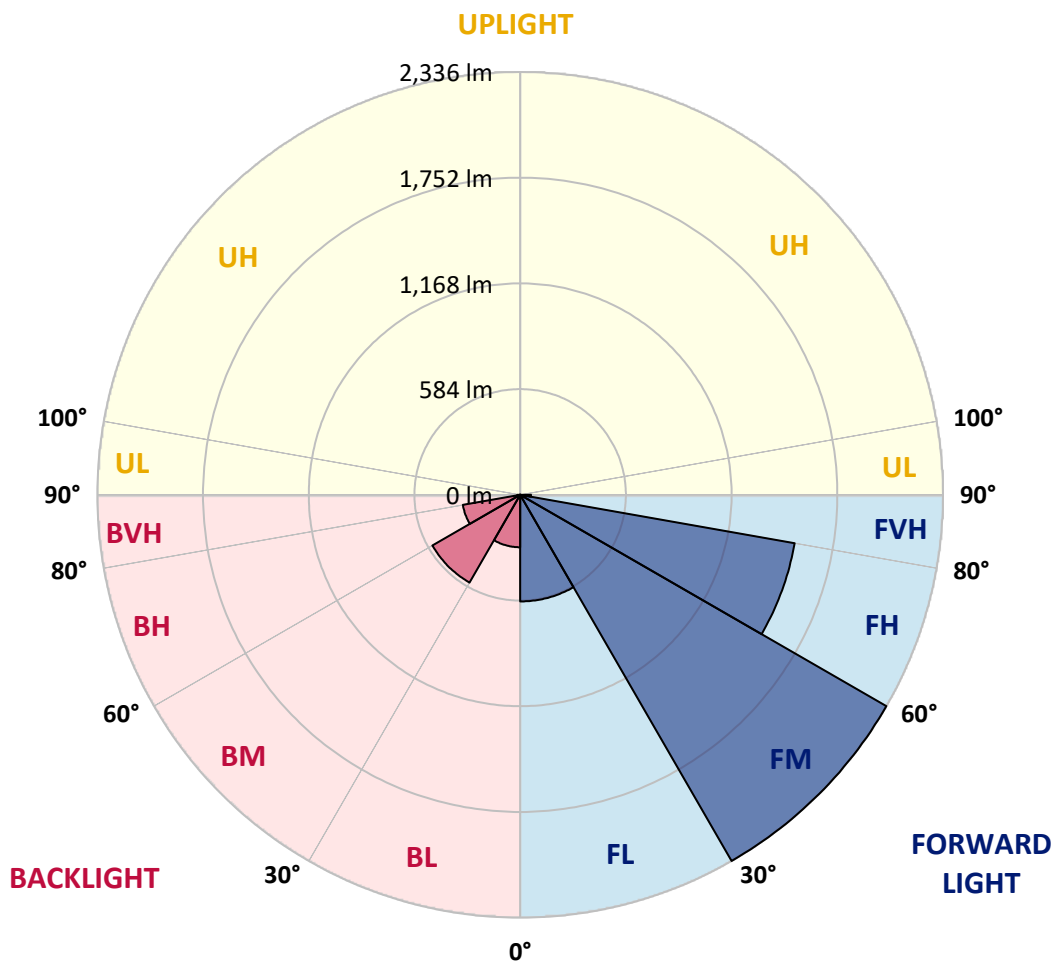
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	588.9	10.3			
FM	(30°-60°)	2335.6	40.9			
FH	(60°-80°)	1539.7	27.0			G1/1800
FVH	(80°-90°)	60.0	1.1			G1/100
BL	(0°-30°)	289.7	5.1	B1/500		
BM	(30°-60°)	559.8	9.8	B1/1000		
BH	(60°-80°)	321.3	5.6	B1/500		G1/500
BVH	(80°-90°)	15.9	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-G1

Type II Short





REPORT NUMBER: P233665

CATALOG NUMBER: VERD-C01-D-U-T2-8027-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1006.5	1006.5	1006.5	1006.5	1006.5	1006.5	1006.5	1006.5	1006.5	1006.5	1006.5
2.5°	1091.3	1092.2	1092.7	1075.5	1066.2	1055.4	1045.2	1034.0	1022.4	1018.2	1002.8
5°	1158.4	1159.4	1156.6	1140.7	1123.5	1107.6	1088.1	1068.0	1048.4	1042.9	1016.8
7.5°	1223.2	1222.7	1220.4	1200.4	1178.9	1158.0	1130.5	1103.4	1077.8	1069.0	1030.3
10°	1276.8	1277.7	1279.1	1257.7	1236.7	1211.5	1178.0	1137.9	1108.6	1094.6	1044.3
12.5°	1335.5	1332.7	1336.4	1315.5	1286.6	1263.7	1233.4	1186.4	1151.4	1133.7	1071.3
15°	1402.6	1402.6	1397.5	1380.2	1350.9	1322.9	1292.6	1249.3	1207.3	1180.3	1107.6
17.5°	1448.7	1445.9	1444.5	1429.6	1404.5	1380.2	1356.9	1312.7	1267.0	1233.9	1141.6
20°	1468.3	1469.2	1475.7	1465.0	1451.5	1437.1	1411.4	1377.0	1326.6	1291.2	1178.0
22.5°	1506.0	1507.0	1514.9	1507.4	1503.7	1500.0	1476.2	1445.9	1392.3	1358.3	1223.7
25°	1508.4	1509.3	1530.7	1542.8	1562.0	1570.8	1554.5	1528.4	1473.9	1440.8	1291.7
27.5°	1515.4	1518.2	1540.1	1573.6	1623.9	1641.6	1632.3	1631.4	1585.3	1550.3	1380.2
30°	1509.3	1512.1	1543.8	1590.4	1660.3	1712.5	1723.2	1750.7	1732.0	1705.9	1503.2
32.5°	1466.4	1476.7	1514.4	1588.5	1691.5	1786.1	1820.6	1914.7	1942.7	1945.5	1750.2
35°	1388.6	1394.2	1462.7	1567.1	1712.5	1855.5	1950.6	2124.4	2242.7	2237.6	2023.7
37.5°	1329.4	1331.3	1401.7	1530.7	1724.1	1930.1	2098.8	2376.9	2513.0	2519.1	2270.7
40°	1253.5	1267.0	1334.6	1486.9	1717.6	1993.0	2246.0	2612.3	2770.7	2764.2	2487.4
42.5°	1182.6	1190.6	1257.7	1418.4	1693.8	2041.0	2390.5	2840.1	2995.8	2974.3	2695.2
45°	1109.0	1122.5	1184.0	1329.9	1646.8	2068.0	2521.4	3056.3	3198.9	3172.4	2878.3
47.5°	1035.4	1045.2	1110.4	1248.8	1558.2	2067.1	2650.0	3259.0	3379.3	3360.6	3051.7
50°	788.0	809.4	980.9	1164.0	1433.8	2027.9	2753.9	3451.5	3568.5	3539.6	3220.8
52.5°	722.3	729.3	777.2	1065.7	1301.0	1934.7	2835.0	3632.3	3735.3	3702.2	3380.2
55°	682.7	691.0	710.6	866.3	1192.0	1781.4	2868.6	3801.0	3877.9	3844.3	3522.3
57.5°	630.0	638.4	677.1	746.0	1078.3	1548.0	2819.2	3950.6	4004.1	3967.3	3654.2
60°	593.7	597.4	634.7	688.7	953.9	1312.2	2654.2	4072.2	4128.1	4084.3	3784.7
62.5°	560.1	564.3	590.9	644.4	850.9	1139.3	2397.5	4102.0	4216.2	4182.1	3904.0
65°	521.4	525.2	549.4	596.9	771.2	1026.5	2132.8	4056.3	4243.2	4204.5	3950.1
67.5°	470.2	475.3	494.4	537.3	666.8	898.9	1739.0	3972.0	4124.8	4084.8	3855.5
70°	406.8	409.1	432.0	470.6	563.4	780.0	1363.9	3671.9	3890.4	3846.2	3589.0
72.5°	328.5	332.7	357.4	397.9	462.7	642.6	974.4	3172.8	3593.6	3576.8	3200.8
75°	219.5	235.8	294.5	335.5	382.6	501.9	654.2	2226.9	3208.2	3221.3	2734.4
77.5°	41.9	43.3	123.5	183.6	223.7	306.6	404.9	1094.1	2114.6	2343.4	2061.9
80°	27.5	29.8	52.7	128.6	148.2	151.9	207.8	479.5	796.8	1007.9	1189.2
82.5°	14.4	17.2	31.7	74.6	68.0	37.7	68.0	247.4	441.7	507.4	599.7
85°	6.1	7.0	15.4	25.6	19.1	15.8	15.8	98.8	195.7	226.5	235.3
87.5°	0.9	0.9	3.3	4.7	2.8	1.9	1.4	0.5	0.5	0.5	0.5
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: P233665

CATALOG NUMBER: VERD-C01-D-U-T2-8027-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1006.5	1006.5	1006.5	1006.5	1006.5	1006.5	1006.5	1006.5	1006.5	1006.5	1006.5
2.5°	1002.8	994.4	982.7	969.2	959.4	954.3	950.1	938.9	935.2	942.7	940.8
5°	1007.0	997.2	970.6	948.7	926.8	913.3	898.4	878.8	870.4	875.1	873.7
7.5°	1009.8	997.7	958.0	924.0	887.2	861.6	842.0	816.4	803.8	808.5	802.9
10°	1014.0	995.8	943.1	897.9	849.9	812.7	783.8	754.0	740.9	744.6	740.0
12.5°	1031.7	1002.3	936.1	875.6	816.9	770.3	733.9	702.2	683.6	687.3	683.6
15°	1060.6	1015.4	925.9	847.1	781.9	728.8	686.8	650.5	629.1	634.2	629.5
17.5°	1090.9	1031.2	916.6	815.5	744.6	685.5	641.6	610.9	576.4	579.7	572.7
20°	1116.9	1046.1	911.5	785.6	709.7	639.3	586.7	565.7	518.2	506.1	498.1
22.5°	1153.3	1068.0	907.3	761.4	666.3	593.2	530.7	491.6	440.3	414.7	412.4
25°	1205.0	1100.6	906.8	742.3	627.2	544.7	457.6	391.9	346.7	316.4	312.2
27.5°	1270.7	1144.0	911.9	723.2	588.1	483.7	367.7	295.0	254.4	231.1	226.9
30°	1365.3	1200.8	918.4	701.3	544.3	404.5	274.0	217.1	183.6	166.8	163.6
32.5°	1568.0	1346.7	928.2	678.5	491.6	304.7	199.0	157.5	131.9	121.6	126.7
35°	1812.2	1544.7	972.0	649.1	422.6	217.1	143.5	112.3	94.6	96.9	99.7
37.5°	2025.6	1733.9	1070.3	611.4	330.4	159.4	98.8	83.9	83.9	91.3	97.9
40°	2226.9	1904.4	1158.4	560.1	231.6	110.0	76.4	77.8	76.4	81.1	79.7
42.5°	2417.0	2066.1	1227.4	499.1	151.4	76.0	69.4	72.2	69.9	70.8	66.6
45°	2596.9	2233.4	1265.6	409.1	100.7	66.2	63.8	68.5	68.0	67.1	62.9
47.5°	2763.2	2380.7	1284.7	295.0	69.4	59.6	60.1	63.4	64.8	63.8	61.5
50°	2926.3	2527.5	1267.5	176.6	62.4	54.5	57.8	57.8	60.6	55.5	53.6
52.5°	3082.4	2674.7	1212.9	107.2	57.3	50.8	53.6	52.7	54.1	48.9	48.0
55°	3229.2	2784.2	1105.3	84.3	54.1	48.5	48.9	49.9	47.5	41.9	43.8
57.5°	3384.4	2877.4	955.3	76.4	52.7	45.2	46.1	45.7	41.9	36.8	36.8
60°	3512.1	2945.0	804.7	69.4	51.7	44.3	41.0	40.1	34.5	31.7	31.2
62.5°	3600.1	2964.1	658.0	62.0	48.9	41.0	36.8	34.0	28.9	26.1	25.2
65°	3607.1	2882.5	500.9	55.9	46.1	38.2	34.0	28.0	22.8	20.5	19.6
67.5°	3464.1	2656.1	353.2	51.3	41.5	35.4	29.8	22.4	18.2	16.3	15.8
70°	3164.9	2374.6	216.2	44.7	37.7	33.1	30.8	18.2	14.9	12.6	12.6
72.5°	2777.2	2056.8	126.7	38.2	31.7	26.6	20.5	15.4	12.6	9.8	9.8
75°	2380.2	1632.8	77.8	28.9	23.3	21.0	15.8	13.0	10.3	7.5	7.5
77.5°	1713.9	1205.5	60.6	18.6	14.4	14.9	11.6	10.3	8.4	6.1	6.1
80°	1051.7	733.9	43.3	12.6	8.4	8.4	8.4	7.9	6.1	5.1	4.7
82.5°	533.1	335.5	21.4	7.5	5.1	5.1	5.1	5.6	4.7	3.7	3.7
85°	187.3	94.1	6.5	3.7	3.3	3.3	2.8	2.8	2.3	1.9	1.9
87.5°	0.5	0.9	0.9	1.4	1.9	1.9	1.4	0.9	0.5	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)