

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: P233715

Luminaire Tested: **VERD-C016-D-U-T3-8027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233715
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-33)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C016-D-U-T3-8027-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 950mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3956 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B1 - U0 - G1

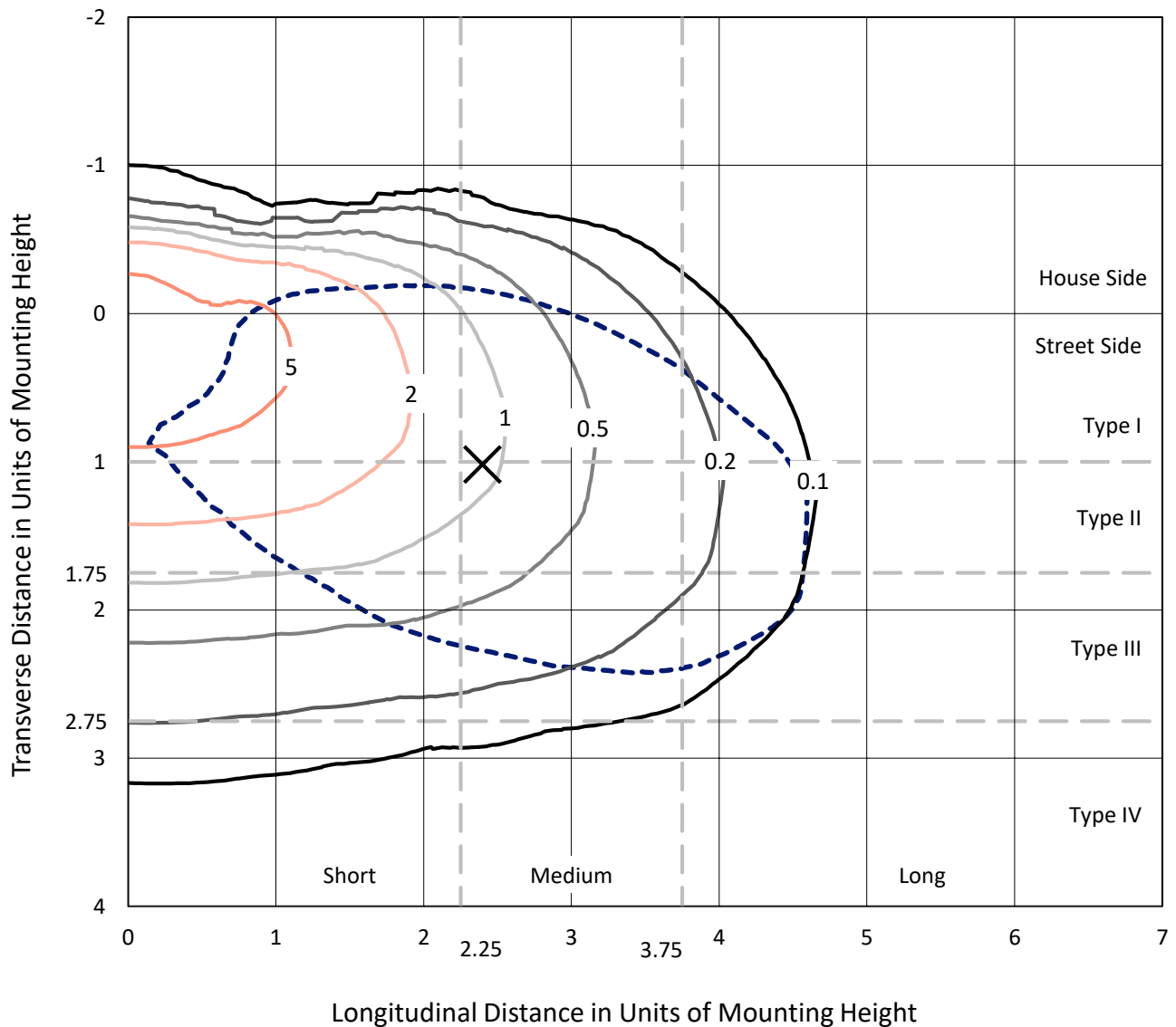
Input Watts (W): 39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P233715
 CATALOG NUMBER: VERD-C016-D-U-T3-8027-HSS

Iso-Footcandle Lines of Horizontal Illumination

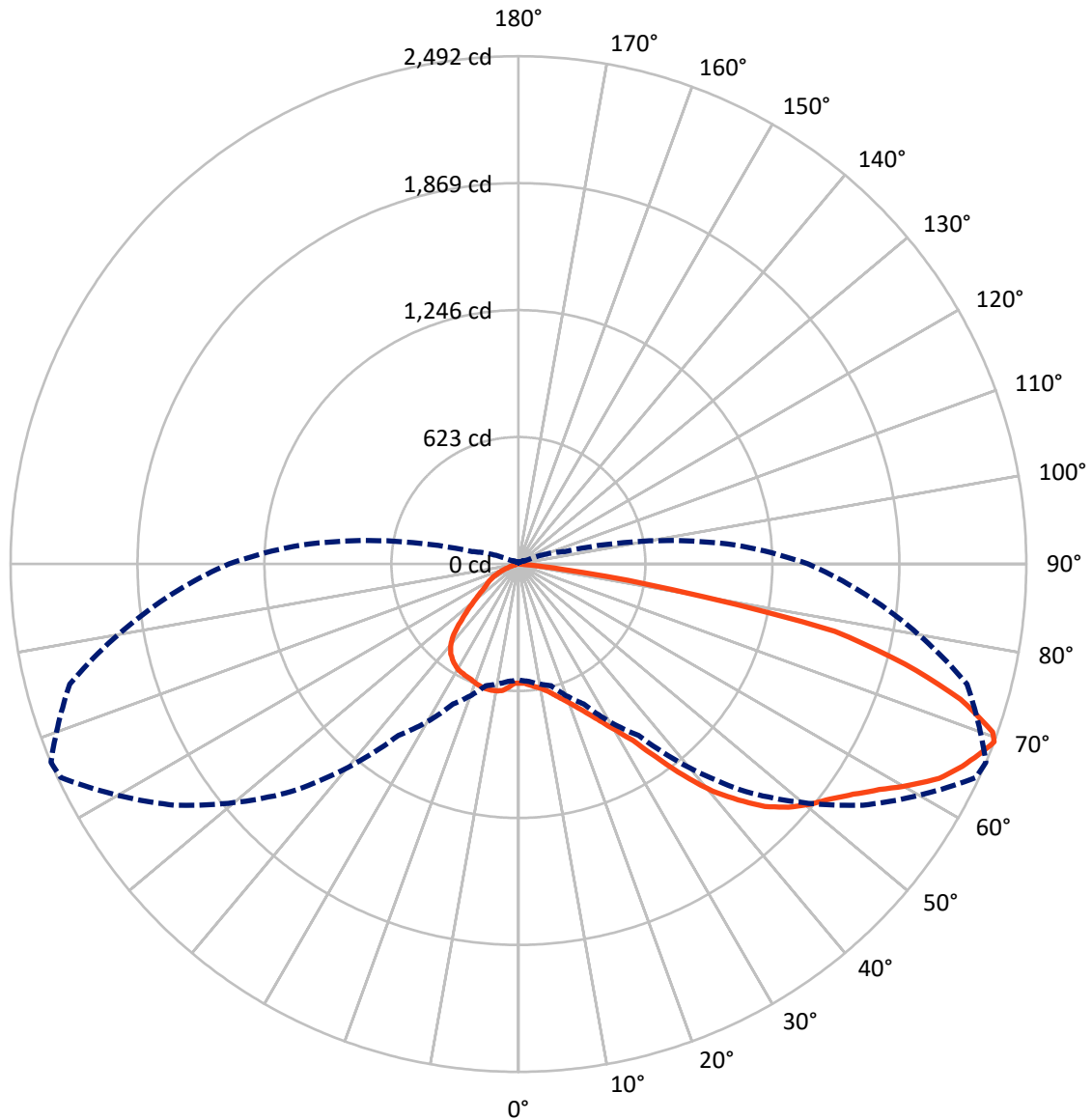
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Medium - Semi-Cutoff

REPORT NUMBER: P233715
CATALOG NUMBER: VERD-C016-D-U-T3-8027-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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CATALOG NUMBER: VERD-C016-D-U-T3-8027-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	713.1	0.0	713.1
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	3242.8	0.0	3242.8
	% Fixture	82.0	0.0	82.0
Total	Lumens	3956.0	0.0	3956.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.1	1.5
10°-20°	185.7	4.7
20°-30°	317.0	8.0
30°-40°	479.3	12.1
40°-50°	677.1	17.1
50°-60°	818.3	20.7
60°-70°	863.4	21.8
70°-80°	519.8	13.1
80°-90°	36.3	0.9
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°	3956.0	100.0
0°-180°	3956.0	100.0



REPORT NUMBER: P233715

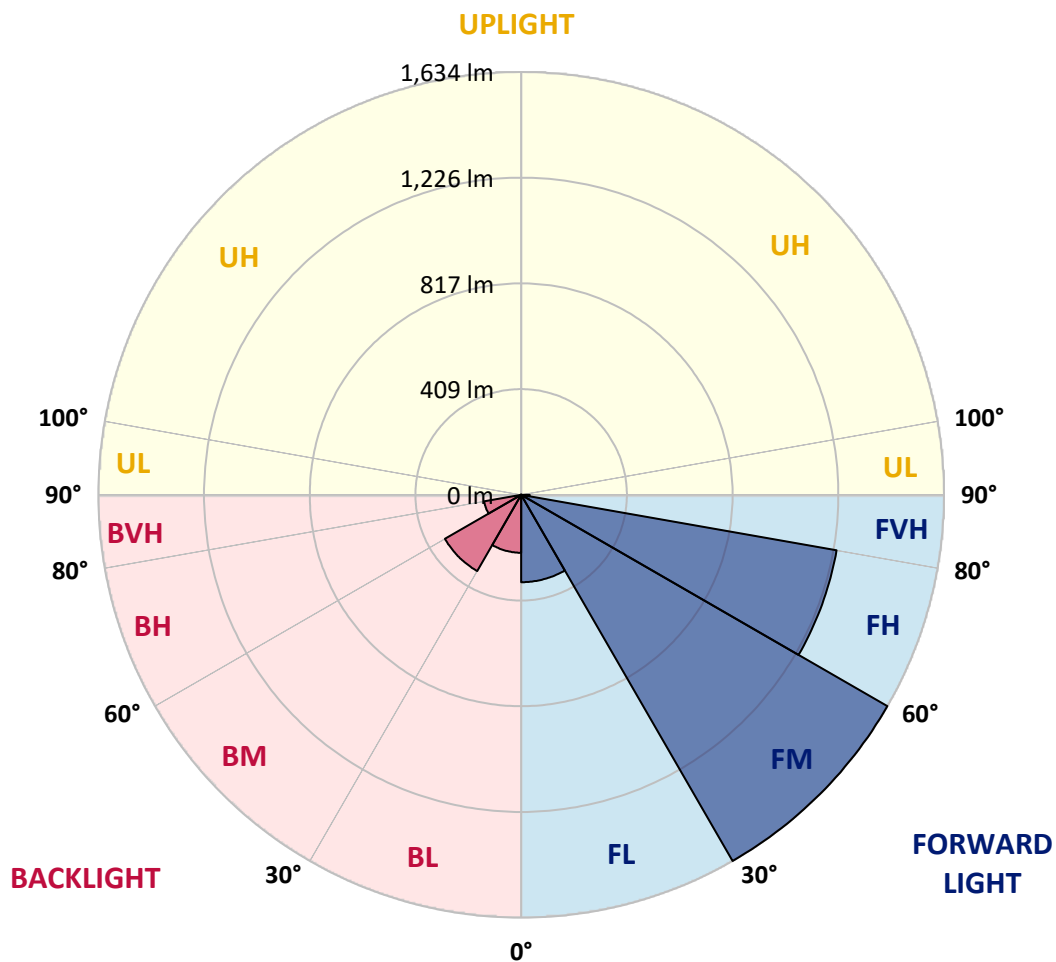
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	337.8	8.5			
FM	(30°-60°)	1634.4	41.3			
FH	(60°-80°)	1237.8	31.3			G1/1800
FVH	(80°-90°)	32.8	0.8			G1/100
BL	(0°-30°)	224.0	5.7	B1/500		
BM	(30°-60°)	340.3	8.6	B1/1000		
BH	(60°-80°)	145.4	3.7	B1/500		G1/500
BVH	(80°-90°)	3.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium





REPORT NUMBER: P233715

CATALOG NUMBER: VERD-C016-D-U-T3-8027-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
2.5°	600.2	599.2	599.2	593.9	588.8	587.6	587.2	585.7	586.0	583.8	581.6
5°	617.5	617.5	616.9	609.9	604.6	601.1	598.9	596.1	596.4	594.8	592.9
7.5°	643.7	644.0	642.7	633.6	628.2	619.7	614.7	609.3	609.0	607.1	607.7
10°	675.8	676.8	674.9	663.2	654.1	642.4	631.7	622.2	621.6	619.4	621.3
12.5°	712.1	713.3	708.6	696.6	686.2	667.9	655.0	642.4	640.5	640.2	641.5
15°	753.7	754.3	752.7	735.1	722.5	705.8	684.6	668.6	666.7	667.0	665.4
17.5°	800.0	801.6	798.1	782.4	765.6	742.6	717.4	697.6	696.6	695.7	688.7
20°	849.2	850.8	848.5	833.7	813.9	784.9	754.0	731.3	731.0	728.8	712.7
22.5°	904.7	906.9	905.6	887.6	866.5	835.0	796.5	772.9	772.3	765.3	741.1
25°	964.9	964.2	965.5	946.3	926.4	893.3	845.7	821.1	821.1	812.6	776.7
27.5°	1023.2	1022.9	1025.1	1011.5	990.7	959.5	902.1	877.2	879.4	867.1	819.6
30°	1079.9	1079.9	1085.3	1076.4	1061.0	1028.2	972.1	946.0	948.8	935.9	873.8
32.5°	1132.9	1135.4	1144.5	1139.2	1127.5	1097.9	1050.0	1026.0	1032.6	1038.0	974.6
35°	1172.0	1174.5	1195.6	1197.5	1194.7	1174.8	1139.2	1154.6	1162.5	1204.7	1134.1
37.5°	1206.3	1209.5	1234.7	1250.4	1259.6	1247.3	1249.5	1301.2	1316.0	1365.8	1270.3
40°	1231.5	1238.5	1263.4	1285.1	1317.3	1331.8	1367.7	1441.1	1465.1	1485.0	1363.9
42.5°	1214.2	1218.9	1262.7	1321.1	1368.0	1419.1	1477.4	1564.7	1582.7	1576.4	1446.5
45°	1188.7	1194.3	1240.4	1330.5	1408.4	1510.2	1581.4	1676.0	1696.5	1661.5	1517.7
47.5°	1160.0	1167.9	1217.7	1317.9	1442.1	1594.0	1675.7	1771.5	1783.5	1737.4	1577.6
50°	1131.0	1139.8	1196.2	1307.5	1468.3	1664.0	1744.4	1849.3	1852.8	1800.5	1631.5
52.5°	1091.9	1101.0	1162.8	1285.7	1486.5	1710.0	1804.6	1913.3	1915.5	1868.6	1682.6
55°	1042.4	1054.1	1119.3	1253.6	1491.0	1736.8	1842.7	1979.8	1994.7	1942.3	1724.5
57.5°	984.1	994.8	1066.7	1207.3	1468.9	1746.0	1896.0	2067.8	2088.3	2017.0	1759.2
60°	917.0	929.2	1001.4	1147.4	1424.4	1771.5	1984.3	2192.0	2204.3	2095.2	1789.8
62.5°	848.2	857.1	922.6	1063.2	1355.1	1786.9	2062.4	2308.6	2316.8	2170.5	1808.1
65°	750.5	761.6	825.5	966.8	1255.2	1757.3	2092.4	2388.4	2393.4	2233.6	1799.2
67.5°	644.3	653.1	699.8	850.4	1124.0	1663.4	2080.1	2441.6	2457.7	2282.8	1759.2
69°	569.0	577.8	618.1	757.5	1026.6	1580.2	2062.7	2477.9	2492.1	2279.3	1708.1
70°	510.3	519.2	557.3	688.1	950.4	1509.9	2035.3	2459.6	2468.7	2240.5	1658.3
72.5°	365.0	373.8	405.0	483.8	719.9	1241.0	1865.4	2256.6	2268.9	2054.2	1482.1
75°	191.0	212.1	268.2	312.7	426.5	873.8	1550.8	1940.8	1958.7	1802.7	1218.9
77.5°	24.6	25.8	75.7	127.0	176.2	368.5	1101.7	1558.4	1586.8	1442.7	842.9
80°	19.9	20.2	26.2	63.4	87.6	149.4	390.9	729.4	763.8	641.1	309.9
82.5°	13.9	14.5	20.5	33.4	28.7	54.5	135.9	206.1	212.5	183.8	123.6
85°	7.9	7.9	9.8	12.9	9.1	20.5	28.1	29.9	26.8	26.5	19.9
87.5°	2.2	2.5	2.8	2.2	0.9	0.9	1.3	1.3	1.3	0.9	0.9
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: P233715

CATALOG NUMBER: VERD-C016-D-U-T3-8027-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
2.5°	585.0	584.4	584.7	586.0	587.9	594.8	599.5	600.2	602.4	610.6	609.6
5°	595.1	598.9	601.1	607.7	612.1	621.6	627.3	627.9	631.1	639.6	639.9
7.5°	609.3	615.6	618.8	626.3	627.9	632.3	633.9	632.3	632.6	640.2	640.8
10°	621.6	629.5	629.5	631.4	628.5	628.8	623.8	619.1	616.6	623.2	624.7
12.5°	640.5	642.7	637.7	632.0	623.5	615.9	607.4	599.8	593.9	597.6	595.4
15°	660.1	656.6	644.3	629.5	614.3	601.4	583.8	572.7	562.3	564.5	562.7
17.5°	679.6	668.2	649.0	624.4	602.4	577.8	553.2	535.9	516.9	515.4	512.5
20°	698.5	682.1	650.3	614.0	583.1	548.5	510.3	480.7	452.6	445.4	440.7
22.5°	721.2	697.6	651.9	603.9	562.3	515.1	457.4	411.4	381.1	371.0	366.3
25°	750.2	719.0	656.3	596.4	541.2	473.8	394.6	342.0	309.2	291.9	290.3
27.5°	784.6	744.8	663.8	586.6	511.3	418.6	329.7	274.9	239.9	222.2	216.6
30°	829.6	777.0	670.8	579.0	469.0	358.4	261.6	200.5	158.9	147.5	141.5
32.5°	915.1	829.3	679.6	561.4	419.2	292.5	185.3	123.6	95.2	87.6	87.6
35°	1054.1	944.4	701.7	537.1	359.3	213.1	111.3	69.3	56.7	52.3	50.1
37.5°	1179.5	1060.4	756.8	499.6	286.5	126.1	63.7	42.9	38.8	39.4	39.4
40°	1268.1	1139.8	817.7	448.9	194.5	67.5	40.3	34.4	35.0	35.3	35.3
42.5°	1344.1	1207.6	851.1	388.7	105.9	43.8	34.7	31.2	32.2	31.8	31.5
45°	1407.7	1262.7	862.1	305.8	51.4	38.8	31.5	28.7	28.7	28.4	28.4
47.5°	1462.3	1311.6	841.6	227.3	41.6	35.6	29.9	26.5	26.2	27.7	27.7
50°	1512.1	1349.4	790.6	172.1	40.3	32.8	28.4	24.6	24.9	27.1	27.1
52.5°	1553.7	1371.8	714.9	128.9	37.5	30.3	26.2	23.0	23.0	25.2	25.2
55°	1584.6	1371.8	657.2	96.5	35.9	27.7	24.3	22.1	20.8	21.4	21.7
57.5°	1600.0	1346.0	610.9	78.2	34.0	25.2	22.4	19.2	17.0	17.7	17.3
60°	1595.9	1331.1	557.6	69.7	31.8	23.3	19.9	16.4	14.2	13.6	13.6
62.5°	1588.4	1314.4	491.1	60.5	29.6	21.7	16.4	13.2	12.0	11.3	11.7
65°	1559.7	1260.2	406.9	50.4	27.4	21.1	13.9	11.7	10.4	9.8	9.8
67.5°	1490.3	1162.5	307.6	42.6	25.5	17.0	12.0	10.1	8.8	8.2	8.2
69°	1421.6	1069.2	236.1	38.8	24.3	15.4	11.0	9.1	8.2	7.2	7.2
70°	1362.3	997.0	185.0	36.2	23.3	14.8	10.7	8.8	7.9	6.9	6.9
72.5°	1160.0	790.9	93.9	31.5	19.5	12.9	9.5	7.9	6.6	5.7	5.7
75°	899.9	545.0	62.1	24.9	15.1	11.7	8.5	6.9	5.7	4.7	4.4
77.5°	541.5	213.1	44.4	16.1	9.8	9.1	6.9	5.7	4.7	3.8	3.8
80°	149.4	91.4	29.9	10.7	5.7	6.0	5.0	4.1	3.5	2.8	2.8
82.5°	89.8	59.3	19.9	6.9	3.8	3.8	2.8	2.8	2.2	2.2	2.2
85°	15.4	12.0	4.7	2.8	2.2	2.2	1.6	0.9	0.9	0.9	0.9
87.5°	0.9	0.9	0.9	1.3	1.3	0.9	0.6	0.3	0.0	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)