

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: P233511

Luminaire Tested: **VERD-C026-D-U-T3-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-14)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C026-D-U-T3-8027
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 790mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7109 lumens
Efficiency: N/A
Efficacy: 114.7 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 - G2

Input Watts (W): 62
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

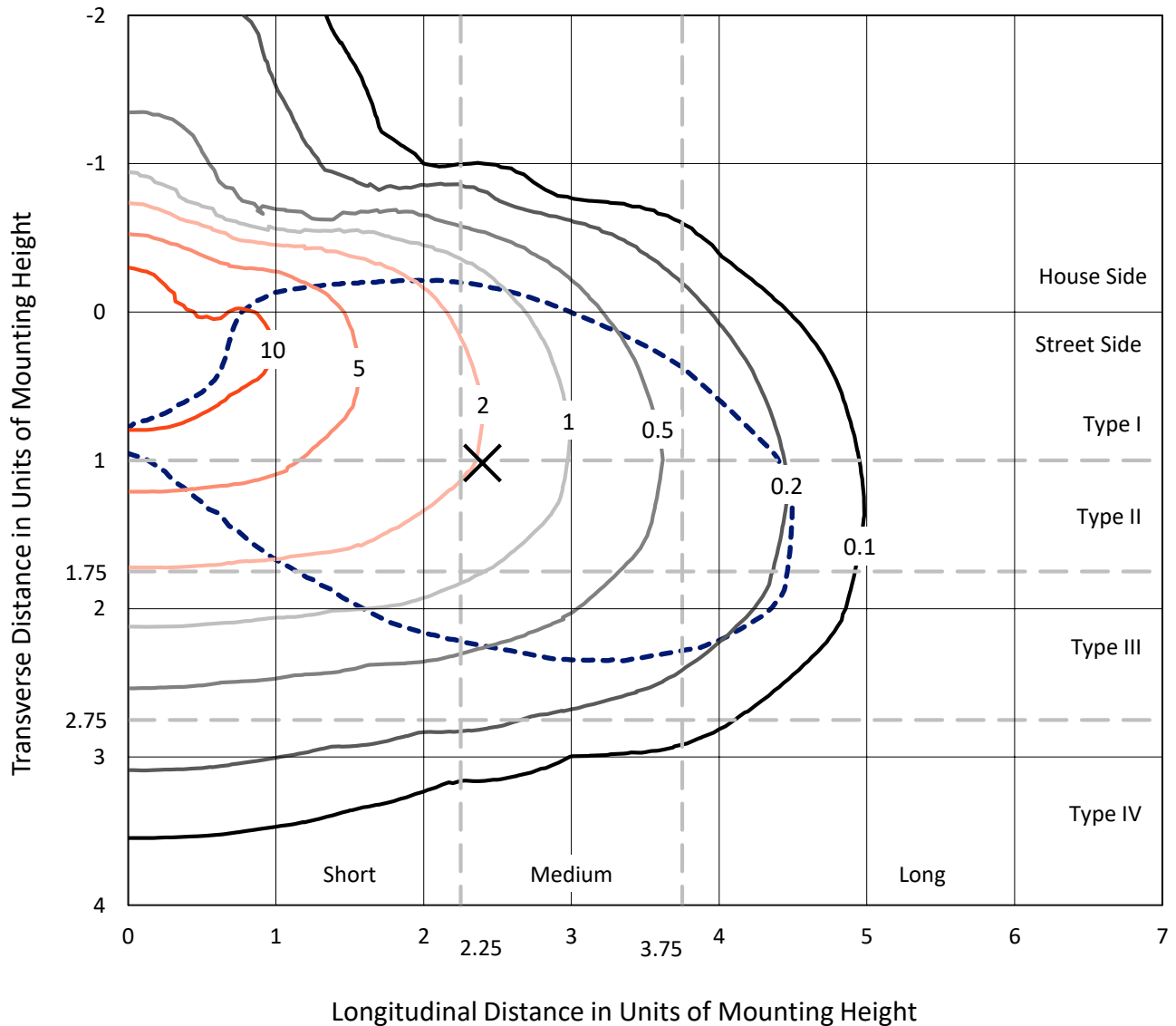


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

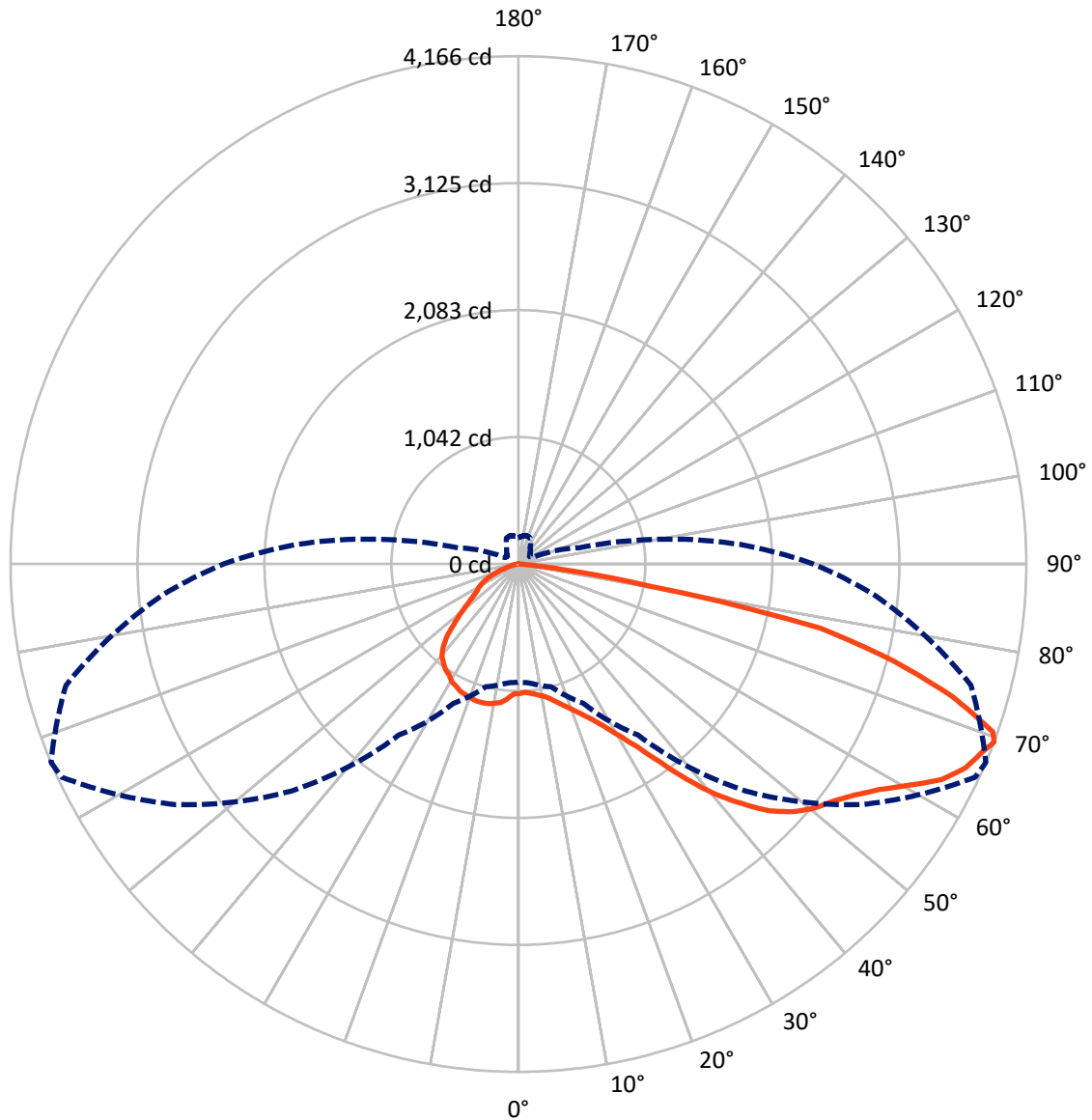


Based on 10 foot mounting height. Maximum calculated value = 12.4 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1600.9	0.0	1600.9
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	5508.1	0.0	5508.1
	% Fixture	77.5	0.0	77.5
Total	Lumens	7109.0	0.0	7109.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.7	1.5
10°-20°	343.2	4.8
20°-30°	591.3	8.3
30°-40°	879.5	12.4
40°-50°	1211.3	17.0
50°-60°	1448.0	20.4
60°-70°	1528.0	21.5
70°-80°	915.7	12.9
80°-90°	84.2	1.2
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°	7109.0	100.0
0°-180°	7109.0	100.0



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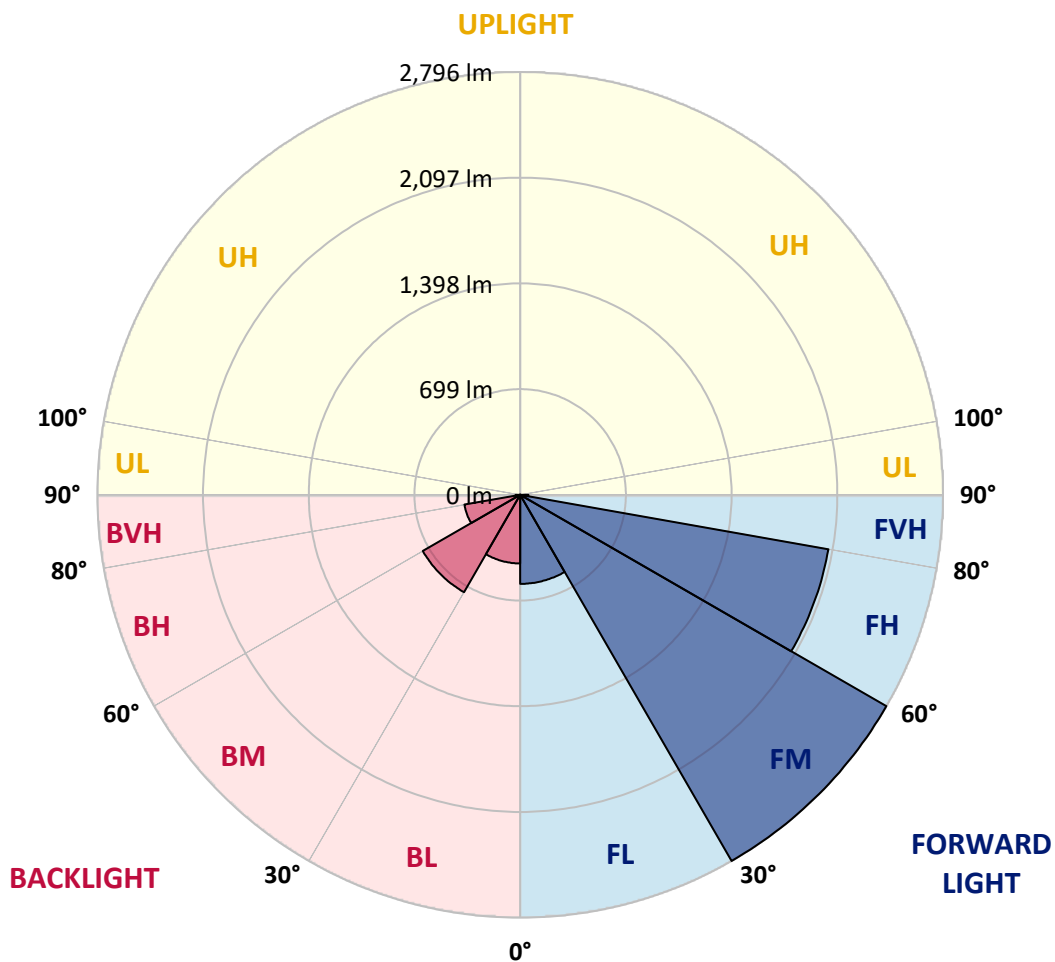
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	588.7	8.3			
FM (30°-60°)	2795.6	39.3			
FH (60°-80°)	2069.4	29.1			G2/5000
FVH (80°-90°)	54.5	0.8			G1/100
BL (0°-30°)	453.6	6.4	B1/500		
BM (30°-60°)	743.2	10.5	B1/1000		
BH (60°-80°)	374.3	5.3	B1/500		G1/500
BVH (80°-90°)	29.8	0.4			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1063.4	1063.4	1063.4	1063.4	1063.4	1063.4	1063.4	1063.4	1063.4	1063.4	1063.4
2.5°	1080.8	1080.2	1076.9	1065.3	1064.0	1062.7	1055.0	1055.6	1053.7	1055.6	1056.2
5°	1110.5	1108.0	1104.7	1092.4	1087.9	1082.1	1070.5	1069.8	1065.3	1066.6	1067.9
7.5°	1147.4	1144.8	1142.2	1128.0	1123.5	1113.1	1095.0	1086.0	1082.1	1083.4	1085.3
10°	1197.2	1192.6	1188.8	1168.1	1161.0	1143.5	1121.5	1106.0	1100.9	1102.8	1108.0
12.5°	1254.1	1248.2	1241.8	1220.4	1210.7	1183.6	1157.7	1137.7	1129.9	1134.5	1138.3
15°	1312.9	1309.6	1307.1	1281.8	1268.3	1238.5	1206.2	1181.0	1173.9	1177.8	1179.7
17.5°	1390.4	1388.5	1384.0	1358.1	1332.3	1298.0	1256.0	1229.5	1222.4	1224.3	1219.8
20°	1475.1	1470.0	1467.4	1438.3	1411.1	1363.9	1315.5	1278.0	1276.0	1276.7	1262.5
22.5°	1570.2	1564.3	1559.2	1532.7	1499.0	1444.1	1380.8	1338.7	1340.0	1341.3	1309.6
25°	1667.1	1662.6	1658.1	1632.9	1599.2	1539.1	1462.8	1415.7	1415.0	1415.7	1371.7
27.5°	1768.6	1763.4	1762.8	1742.1	1708.5	1647.1	1559.2	1511.3	1511.3	1508.7	1442.2
30°	1859.1	1864.3	1864.3	1852.6	1821.0	1759.6	1676.8	1629.0	1635.4	1630.3	1545.6
32.5°	1958.0	1956.7	1965.8	1956.7	1930.9	1874.0	1804.8	1774.4	1785.4	1802.2	1717.5
35°	2015.5	2024.6	2047.2	2060.1	2047.9	2001.3	1950.9	1974.2	1989.0	2064.7	1963.2
37.5°	2082.1	2089.9	2120.9	2152.6	2157.7	2132.5	2132.5	2208.8	2237.9	2336.8	2218.5
40°	2128.0	2135.8	2169.4	2206.2	2256.7	2274.1	2319.4	2437.6	2479.0	2545.6	2408.6
42.5°	2100.9	2104.7	2177.1	2267.0	2341.3	2425.4	2497.1	2647.1	2686.5	2733.1	2565.0
45°	2053.0	2060.1	2140.3	2285.1	2413.1	2579.9	2670.4	2844.2	2889.5	2885.0	2685.2
47.5°	2000.0	2011.0	2100.2	2261.8	2474.5	2713.7	2828.7	3009.7	3035.6	3003.3	2768.6
50°	1941.2	1959.9	2055.0	2238.6	2519.1	2830.7	2946.4	3133.8	3147.4	3081.5	2841.7
52.5°	1874.0	1886.3	1991.6	2193.9	2550.1	2908.2	3040.1	3226.3	3232.1	3178.4	2918.6
55°	1780.9	1791.9	1908.9	2134.5	2554.6	2954.1	3100.2	3325.2	3344.6	3292.2	2988.4
57.5°	1680.7	1694.3	1814.5	2048.5	2513.3	2972.9	3172.6	3452.5	3490.0	3415.0	3044.6
60°	1564.3	1581.8	1703.3	1943.8	2431.8	3002.0	3307.7	3638.0	3684.6	3554.0	3098.3
62.5°	1443.5	1453.2	1565.0	1799.0	2305.1	3016.8	3430.5	3850.1	3894.7	3685.2	3123.5
65°	1273.4	1289.0	1388.5	1625.1	2126.7	2952.8	3488.1	3998.1	4030.4	3791.9	3098.9
67.5°	1093.1	1093.1	1177.8	1417.0	1888.8	2783.5	3464.8	4069.2	4108.0	3866.9	3021.4
69°	968.3	978.0	1042.7	1260.5	1714.3	2632.9	3439.6	4134.5	4166.2	3843.0	2932.2
70°	872.7	881.1	946.4	1146.7	1584.4	2513.9	3385.3	4105.4	4128.7	3769.3	2838.4
72.5°	641.9	649.0	694.3	799.0	1191.4	2028.5	3052.4	3711.7	3726.0	3389.8	2504.2
75°	437.6	441.5	475.8	539.8	694.9	1418.2	2493.9	3135.1	3177.2	2939.9	2050.4
77.5°	151.3	162.9	183.6	248.2	297.4	557.2	1690.4	2470.6	2533.3	2276.7	1434.4
80°	51.7	51.1	98.3	127.3	156.4	256.0	534.6	1035.6	1094.4	938.6	516.5
82.5°	38.8	40.1	65.3	70.5	47.8	94.4	208.1	316.7	347.1	303.2	214.0
85°	24.6	23.9	29.1	30.4	22.0	40.1	50.4	51.1	53.0	45.9	46.5
87.5°	13.6	13.6	12.9	11.0	5.8	5.2	4.5	4.5	3.9	3.9	3.9
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°	1063.4	1063.4	1063.4	1063.4	1063.4	1063.4	1063.4	1063.4	1063.4	1063.4	1063.4
2.5°	1053.0	1062.1	1064.0	1066.6	1073.1	1081.5	1093.1	1093.1	1097.6	1111.2	1115.7
5°	1067.9	1078.9	1093.1	1108.0	1125.4	1144.2	1162.9	1169.4	1178.4	1196.5	1200.4
7.5°	1090.5	1102.8	1127.4	1147.4	1162.3	1181.0	1196.5	1199.1	1210.7	1227.6	1230.8
10°	1113.8	1124.8	1149.3	1159.7	1179.7	1200.4	1208.2	1212.0	1221.7	1234.7	1232.7
12.5°	1145.5	1148.7	1166.1	1173.3	1182.9	1195.9	1199.8	1199.8	1205.6	1226.3	1226.9
15°	1176.5	1176.5	1179.1	1175.2	1176.5	1182.9	1183.6	1175.2	1181.7	1192.0	1188.1
17.5°	1209.5	1200.4	1188.8	1172.0	1157.1	1156.4	1142.9	1122.8	1117.0	1131.9	1131.2
20°	1240.5	1225.0	1197.2	1159.0	1138.3	1110.5	1076.3	1064.7	1064.0	1066.6	1064.7
22.5°	1281.2	1249.5	1199.1	1146.7	1089.9	1045.9	1017.5	978.0	976.7	970.9	961.9
25°	1329.7	1284.4	1207.5	1133.2	1050.4	993.5	925.0	883.0	859.1	864.3	848.7
27.5°	1392.4	1337.4	1210.7	1103.4	996.1	899.8	817.1	762.8	742.1	733.0	722.7
30°	1478.4	1393.7	1234.0	1078.2	928.9	801.6	700.1	621.2	591.5	599.2	600.5
32.5°	1616.0	1500.3	1246.3	1028.5	851.3	694.3	562.4	477.1	459.6	481.6	487.4
35°	1855.9	1665.8	1275.4	998.7	762.8	568.8	418.2	383.3	387.2	406.0	407.2
37.5°	2091.8	1875.3	1365.2	934.1	656.8	421.5	324.5	305.8	324.5	348.4	351.7
40°	2257.3	2038.8	1444.7	870.1	508.1	305.1	247.6	225.0	252.1	290.2	297.4
42.5°	2404.0	2168.7	1501.0	781.5	347.8	217.8	177.8	183.6	223.7	251.5	257.9
45°	2509.4	2257.9	1539.8	666.5	221.7	164.8	159.0	177.8	215.9	237.9	239.8
47.5°	2576.0	2310.3	1511.3	524.9	166.8	155.8	156.4	180.4	218.5	243.1	242.4
50°	2636.1	2338.1	1418.9	416.3	158.4	149.3	159.7	187.5	226.9	249.5	248.2
52.5°	2700.1	2365.2	1306.4	326.4	151.9	146.1	163.5	192.0	226.9	241.1	239.2
55°	2755.0	2389.2	1221.7	262.4	147.4	145.4	167.4	199.1	225.6	231.4	227.5
57.5°	2783.5	2348.4	1129.9	220.4	142.9	145.4	170.0	197.8	233.4	252.1	248.2
60°	2768.0	2310.3	1055.6	204.9	136.4	144.8	171.3	212.0	286.4	303.8	302.5
62.5°	2739.5	2268.3	951.5	184.2	129.3	146.1	170.7	225.0	329.7	323.9	307.7
65°	2681.3	2184.3	809.3	160.3	122.2	148.7	170.7	253.4	287.7	281.2	274.1
67.5°	2557.2	2002.6	647.7	137.7	114.4	140.9	168.1	241.1	247.6	230.8	222.4
69°	2418.3	1829.4	512.6	125.4	109.9	137.0	167.4	232.7	243.7	225.6	215.9
70°	2309.7	1694.3	414.4	116.4	105.4	135.7	166.8	226.9	241.8	221.7	211.4
72.5°	1923.7	1369.1	217.2	93.7	89.9	123.5	161.0	221.7	242.4	212.7	197.8
75°	1511.3	974.2	144.2	71.8	69.2	108.0	147.4	213.3	228.2	191.3	168.7
77.5°	932.1	426.6	99.5	49.8	50.4	84.0	126.7	190.7	230.1	193.3	164.2
80°	270.8	164.8	63.3	33.6	31.0	49.8	99.5	164.2	218.5	198.5	179.1
82.5°	156.4	107.3	42.7	21.3	18.7	22.6	62.7	127.3	192.6	181.6	185.5
85°	35.6	29.7	15.5	10.3	10.3	12.9	21.3	73.7	133.2	155.8	175.8
87.5°	3.9	3.9	3.9	3.9	3.9	3.2	3.9	20.0	58.2	82.7	96.3
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)