

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: P509247

Luminaire Tested: **VERD-CA2-60-722-U-T3**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509247
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-60-722-U-T3
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 850mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7526 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

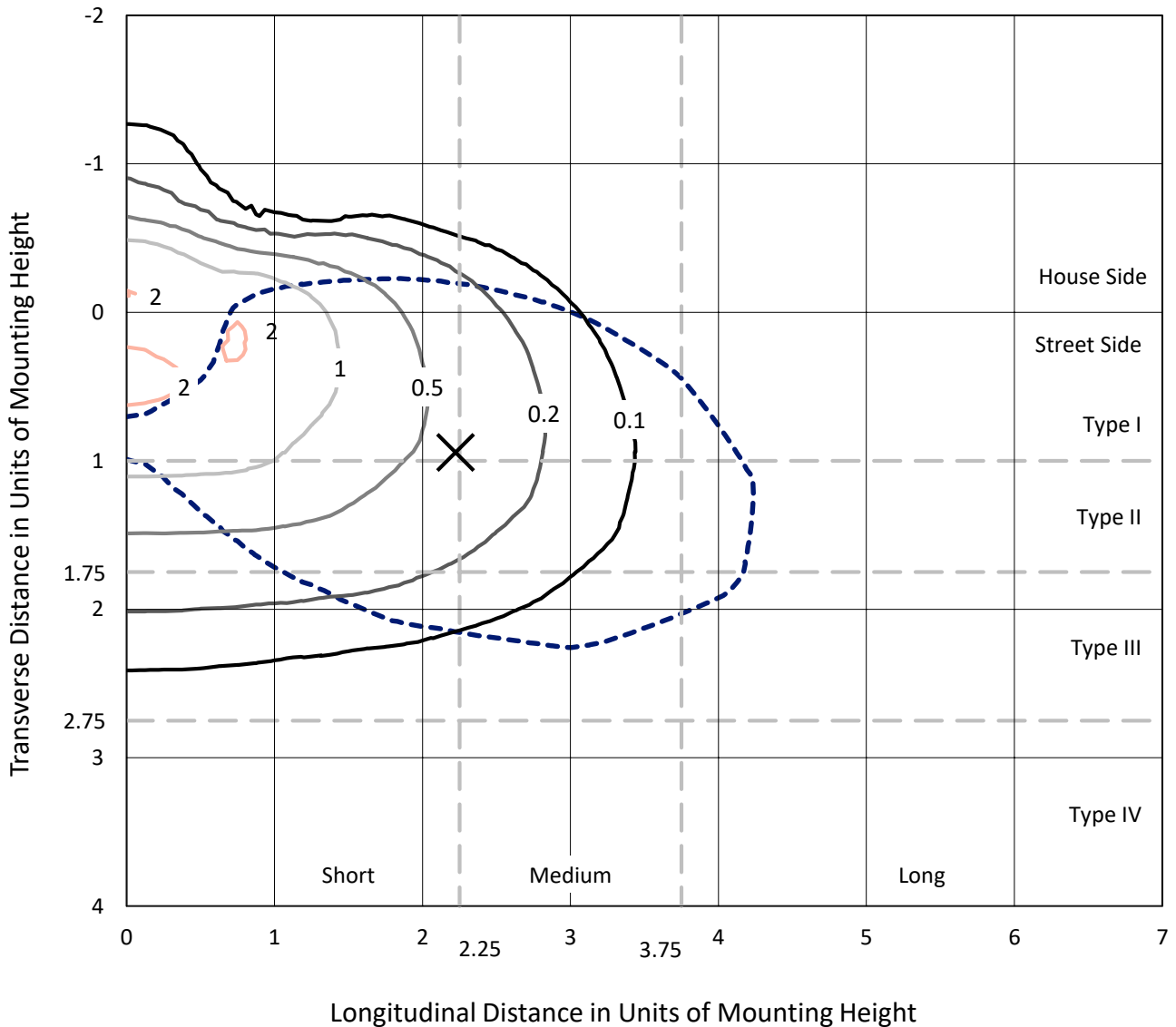
Input Watts (W): 63.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

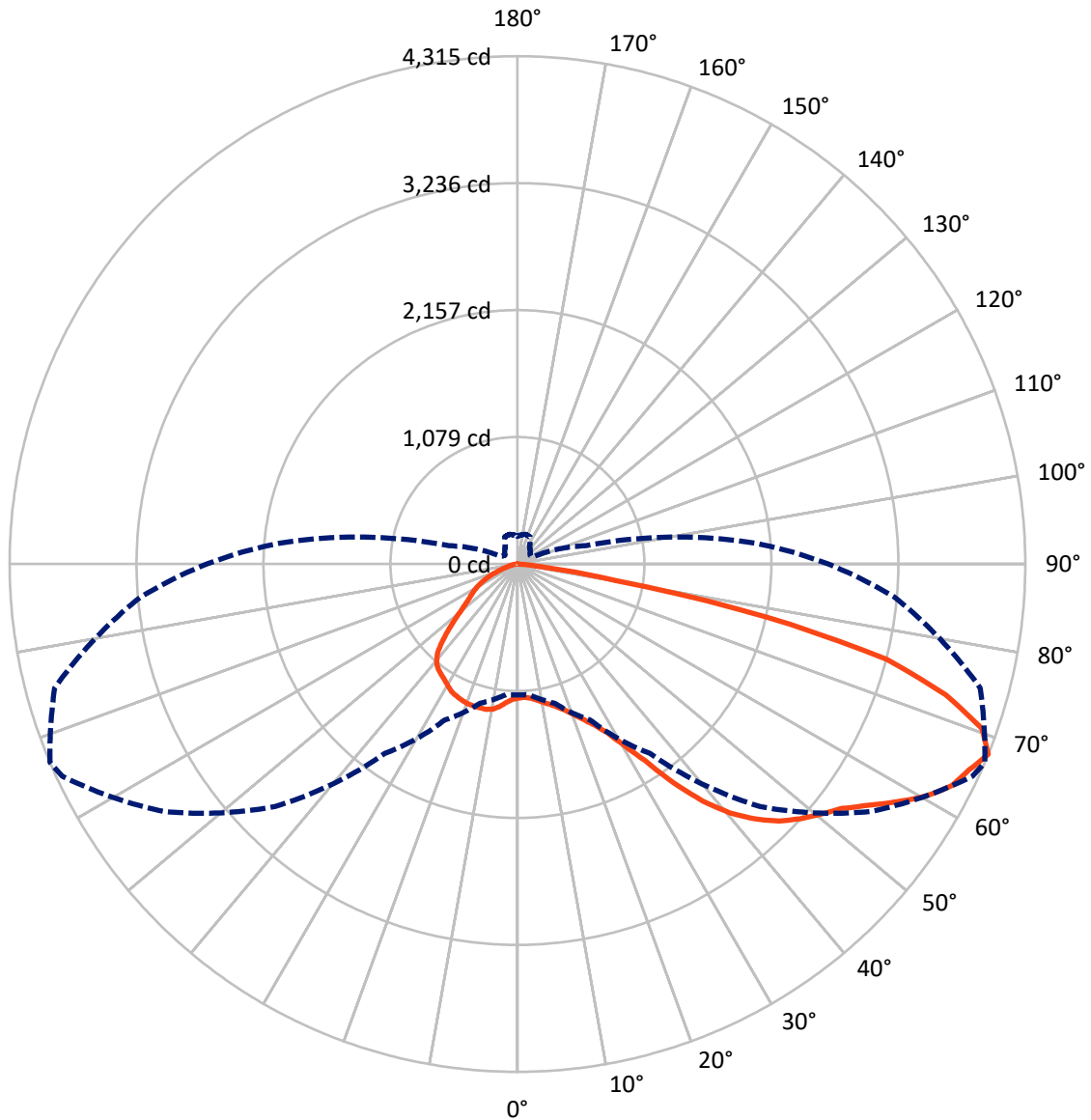
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1720.9	0.0	1720.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	5805.1	0.0	5805.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	7526.0	0.0	7526.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.3	1.5
10°-20°	369.0	4.9
20°-30°	637.6	8.5
30°-40°	967.9	12.9
40°-50°	1315.2	17.5
50°-60°	1564.1	20.8
60°-70°	1609.3	21.4
70°-80°	877.9	11.7
80°-90°	69.8	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°	7526.0	100.0
0°-180°	7526.0	100.0

Coefficient of Utilization



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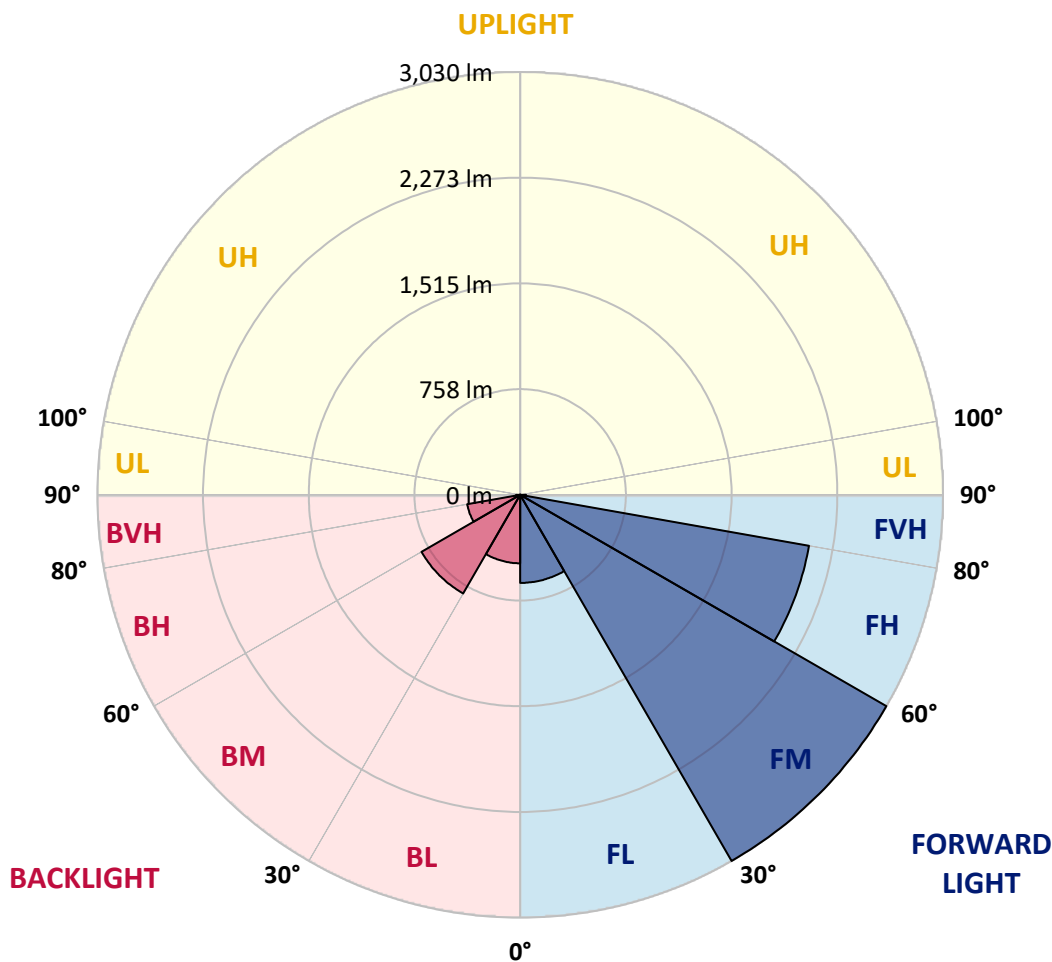
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	631.2	8.4			
FM (30°-60°)	3030.3	40.3			
FH (60°-80°)	2101.9	27.9			G2/5000
FVH (80°-90°)	41.7	0.6			G1/100
BL (0°-30°)	490.7	6.5	B1/500		
BM (30°-60°)	816.9	10.9	B1/1000		
BH (60°-80°)	385.3	5.1	B1/500		G1/500
BVH (80°-90°)	28.0	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1138.6	1138.6	1138.6	1138.6	1138.6	1138.6	1138.6	1138.6	1138.6	1138.6	1138.6
2.5°	1145.1	1140.2	1133.7	1136.1	1131.2	1139.4	1136.1	1134.5	1134.5	1135.3	1139.4
5°	1171.2	1166.3	1161.4	1160.6	1150.8	1154.0	1149.2	1144.3	1144.3	1143.5	1145.1
7.5°	1216.8	1210.3	1204.6	1203.8	1191.5	1189.9	1175.2	1165.5	1165.5	1164.6	1167.1
10°	1277.1	1274.7	1263.3	1255.9	1241.3	1231.5	1213.5	1198.1	1194.8	1189.9	1196.4
12.5°	1335.0	1334.2	1323.6	1315.4	1295.0	1277.9	1248.6	1227.4	1223.3	1217.6	1222.5
15°	1407.5	1400.2	1388.8	1383.9	1354.5	1328.5	1295.0	1263.3	1259.2	1252.7	1256.7
17.5°	1487.4	1483.3	1465.4	1459.7	1423.0	1392.8	1351.3	1310.5	1304.0	1295.0	1294.2
20°	1583.6	1576.2	1562.4	1546.1	1510.2	1467.0	1418.9	1372.5	1366.8	1359.4	1343.9
22.5°	1687.1	1678.9	1665.1	1647.9	1602.3	1556.7	1496.3	1437.7	1434.4	1429.5	1401.0
25°	1785.7	1771.8	1773.4	1757.1	1716.4	1658.5	1587.6	1517.5	1515.9	1515.1	1469.5
27.5°	1890.8	1876.1	1871.2	1865.5	1827.2	1772.6	1692.8	1625.9	1620.2	1621.0	1551.8
30°	1989.4	1982.9	1978.8	1974.8	1956.0	1907.1	1830.5	1771.0	1788.9	1787.3	1691.9
32.5°	2066.0	2061.1	2078.3	2097.8	2092.9	2052.2	1999.2	1972.3	1990.2	2048.1	1965.0
35°	2133.7	2131.2	2163.8	2205.4	2234.7	2205.4	2199.7	2241.3	2282.8	2379.0	2330.9
37.5°	2207.0	2203.8	2231.5	2302.4	2353.7	2362.7	2405.9	2512.7	2552.6	2648.8	2547.7
40°	2206.2	2210.3	2277.1	2367.6	2461.3	2537.1	2625.9	2729.4	2780.8	2826.4	2670.0
42.5°	2170.4	2172.8	2256.7	2428.7	2564.8	2714.0	2793.0	2925.9	2960.9	2969.9	2814.2
45°	2133.7	2135.3	2226.6	2419.7	2651.2	2879.4	2967.4	3088.9	3115.8	3084.8	2912.0
47.5°	2080.7	2091.3	2189.9	2410.8	2725.4	3031.8	3102.7	3223.3	3233.9	3194.8	2993.5
50°	2017.9	2023.7	2136.9	2381.4	2774.3	3126.4	3210.3	3319.5	3339.9	3295.9	3094.6
52.5°	1941.3	1946.2	2069.3	2342.3	2801.2	3198.9	3292.6	3423.0	3450.7	3431.2	3183.4
55°	1853.3	1855.8	1981.3	2278.8	2793.8	3230.7	3364.3	3569.7	3616.2	3568.1	3257.6
57.5°	1743.3	1752.3	1894.9	2183.4	2738.4	3270.6	3493.9	3750.6	3810.1	3707.5	3313.0
60°	1630.0	1639.0	1768.6	2072.6	2645.5	3288.5	3627.6	3945.4	3997.6	3839.5	3347.2
62.5°	1502.9	1515.1	1622.7	1905.5	2479.2	3264.9	3726.2	4115.8	4145.1	3918.5	3338.3
65°	1317.9	1324.4	1441.7	1704.2	2262.5	3141.8	3722.1	4207.0	4216.8	4005.7	3299.1
67.5°	1112.5	1113.3	1224.1	1461.3	1964.2	2912.0	3665.1	4266.5	4314.6	4070.1	3213.6
70°	846.0	857.4	943.8	1119.8	1605.6	2519.2	3476.8	4207.9	4185.0	3894.1	2968.2
72.5°	603.9	597.4	641.4	760.4	1123.9	1943.8	2997.6	3802.0	3806.9	3546.9	2582.7
75°	321.1	322.7	360.2	460.5	573.8	1264.9	2397.7	3211.9	3241.3	3041.6	2021.2
77.5°	71.7	81.5	123.9	176.0	249.4	405.1	1300.7	2106.8	2162.2	2001.6	1107.6
80°	55.4	56.2	81.5	100.2	110.0	194.0	413.2	764.5	848.4	801.1	416.5
82.5°	36.7	37.5	53.8	55.4	53.0	88.8	187.5	229.0	251.8	220.1	154.9
85°	19.6	20.4	24.5	26.9	21.2	26.1	24.5	19.6	20.4	17.9	17.9
87.5°	4.1	2.4	3.3	2.4	2.4	1.6	2.4	2.4	2.4	2.4	2.4
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°	1138.6	1138.6	1138.6	1138.6	1138.6	1138.6	1138.6	1138.6	1138.6	1138.6	1138.6
2.5°	1139.4	1141.0	1145.1	1151.6	1154.9	1162.2	1167.1	1179.3	1196.4	1190.7	1183.4
5°	1145.9	1150.8	1164.6	1181.8	1194.8	1214.4	1224.1	1247.8	1267.3	1265.7	1252.7
7.5°	1170.3	1180.9	1198.1	1223.3	1245.3	1264.9	1278.7	1304.0	1321.9	1314.6	1302.4
10°	1201.3	1211.9	1230.7	1253.5	1269.8	1291.0	1299.9	1320.3	1331.7	1322.8	1312.2
12.5°	1229.8	1235.5	1248.6	1265.7	1274.7	1288.5	1292.6	1307.3	1317.9	1313.8	1300.7
15°	1257.6	1256.7	1259.2	1264.1	1267.3	1270.6	1271.4	1282.0	1289.3	1281.2	1272.2
17.5°	1288.5	1280.4	1269.8	1261.6	1249.4	1243.7	1233.1	1238.0	1237.2	1230.7	1223.3
20°	1327.6	1313.0	1280.4	1255.1	1223.3	1198.1	1176.1	1172.0	1172.0	1154.0	1153.2
22.5°	1374.1	1349.6	1295.0	1239.6	1188.3	1148.3	1107.6	1084.0	1066.8	1053.8	1048.1
25°	1434.4	1389.6	1308.1	1218.4	1142.6	1070.1	1009.0	976.4	943.8	922.6	919.3
27.5°	1498.8	1449.9	1316.2	1199.7	1079.9	980.4	895.7	828.9	798.7	784.8	771.8
30°	1603.9	1517.5	1330.9	1159.8	1000.8	870.4	758.0	679.7	650.4	640.6	632.4
32.5°	1859.0	1692.8	1344.8	1119.0	916.1	749.0	600.7	534.6	509.4	519.2	522.4
35°	2178.5	1953.6	1410.8	1071.7	828.0	611.3	462.1	418.1	419.7	434.4	439.3
37.5°	2395.3	2183.4	1545.2	1012.2	701.7	453.1	357.8	343.9	356.2	369.2	371.6
40°	2522.4	2288.5	1639.8	938.9	552.6	339.0	269.0	259.2	285.3	314.6	332.5
42.5°	2657.7	2378.2	1688.7	843.5	387.9	245.3	206.2	213.5	255.1	280.4	291.8
45°	2730.3	2448.3	1666.7	707.4	264.1	190.7	185.0	205.4	246.9	269.8	273.0
47.5°	2808.5	2518.4	1613.7	565.6	202.1	180.9	181.7	206.2	248.6	273.0	273.0
50°	2876.1	2576.2	1519.2	443.4	192.3	174.4	182.6	210.3	251.0	272.2	271.4
52.5°	2954.4	2602.3	1384.7	358.6	182.6	168.7	183.4	213.5	246.9	259.2	257.5
55°	2978.8	2583.6	1320.3	299.9	175.2	165.4	186.6	218.4	245.3	247.8	243.7
57.5°	2978.8	2533.0	1247.0	255.9	168.7	165.4	188.3	217.6	254.3	269.8	268.1
60°	2965.8	2480.1	1134.5	229.0	159.7	163.8	189.1	229.8	302.4	319.5	318.7
62.5°	2924.2	2394.5	995.9	202.1	150.8	164.6	186.6	246.9	345.6	338.2	320.3
65°	2825.6	2233.1	807.7	177.7	141.0	164.6	183.4	271.4	307.3	293.4	286.9
67.5°	2639.8	2030.2	600.7	152.4	129.6	154.0	178.5	254.3	260.8	245.3	235.5
70°	2394.5	1719.7	385.5	128.8	117.4	145.1	175.2	238.8	251.8	233.1	220.9
72.5°	1995.1	1365.9	223.3	105.1	99.4	133.7	168.7	231.5	247.8	222.5	205.4
75°	1407.5	862.3	146.7	77.4	79.9	114.1	156.5	216.8	232.3	201.3	176.9
77.5°	717.2	323.6	104.3	57.1	53.8	87.2	135.3	199.7	229.0	202.9	173.6
80°	253.5	163.0	68.5	37.5	35.0	53.8	103.5	169.5	215.2	198.0	192.3
82.5°	108.4	81.5	37.5	23.6	21.2	26.9	58.7	133.7	189.1	179.3	216.8
85°	15.5	13.9	10.6	9.0	9.0	12.2	18.7	66.0	128.0	145.9	176.9
87.5°	2.4	2.4	2.4	1.6	1.6	1.6	0.8	9.8	42.4	63.6	88.0
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)