

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: P509255

Luminaire Tested: **VERD-CA2-60-727-U-T3**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509255
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-CA2-60-727-U-T3
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 850mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7819 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

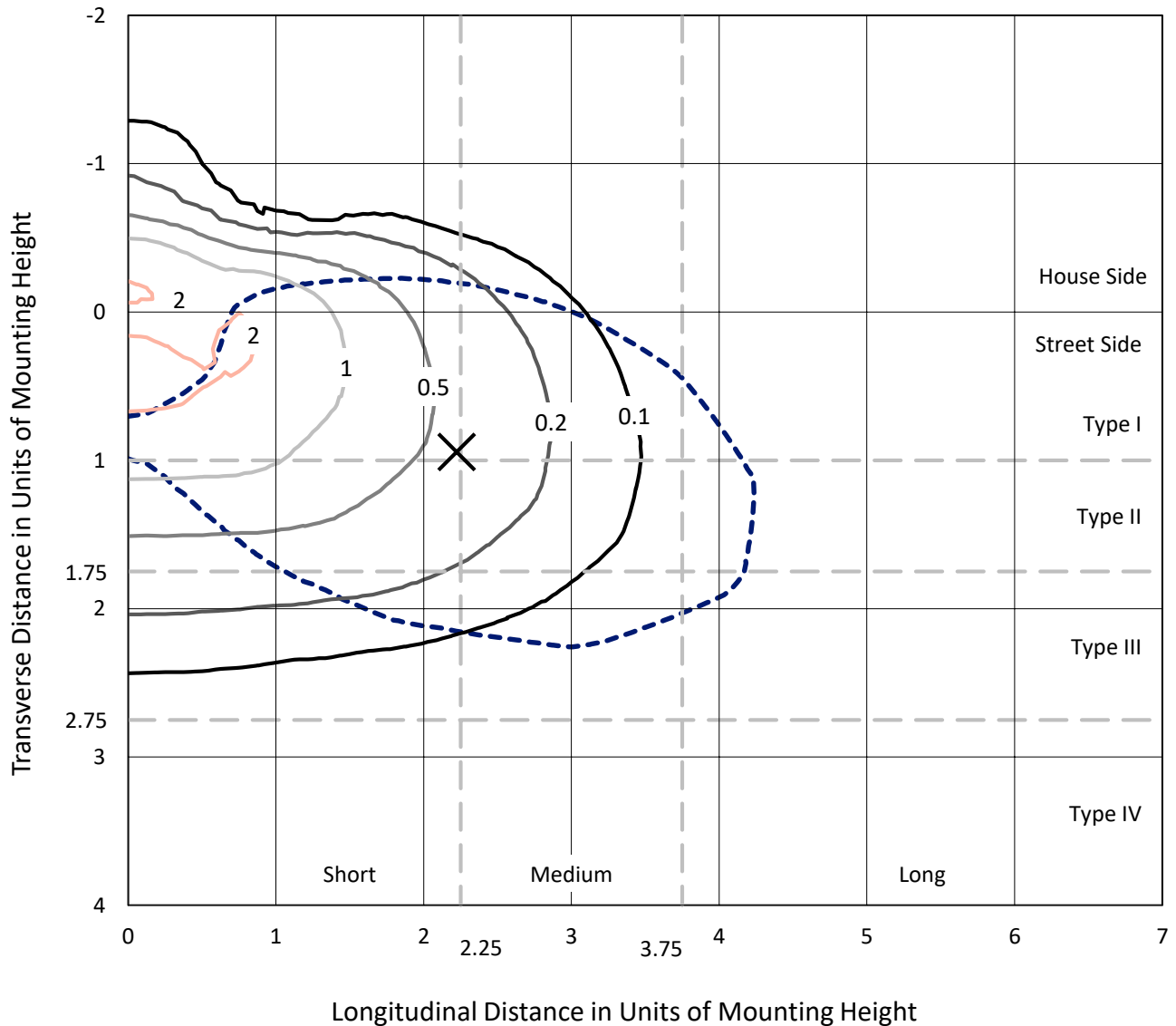
Input Watts (W): 63.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509255
 CATALOG NUMBER: VERD-CA2-60-727-U-T3

Iso-Footcandle Lines of Horizontal Illumination

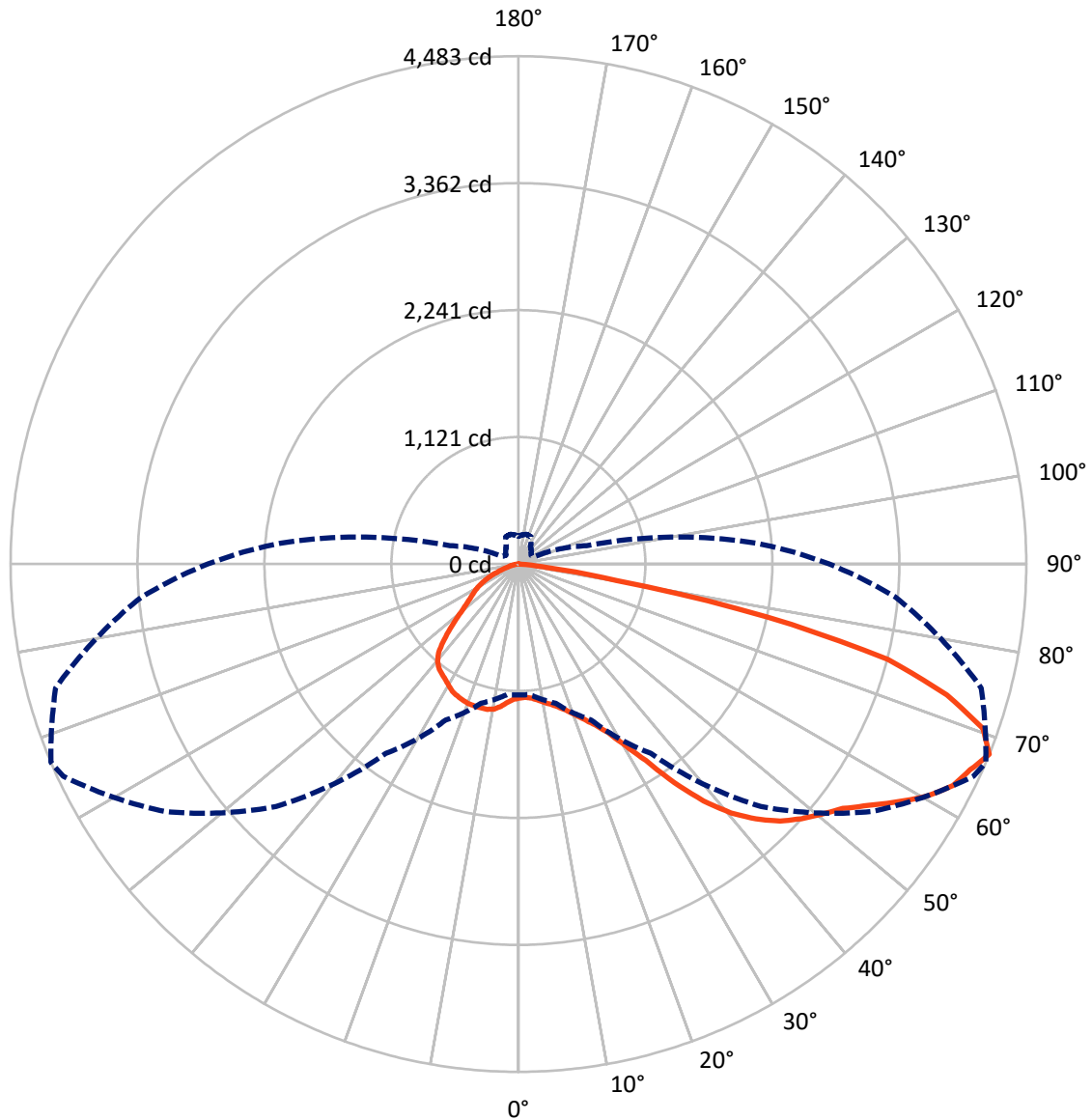
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type III - Short - N/A

REPORT NUMBER: P509255
CATALOG NUMBER: VERD-CA2-60-727-U-T3

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	1787.9	0.0	1787.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	6031.1	0.0	6031.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	7819.0	0.0	7819.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.8	1.5
10°-20°	383.4	4.9
20°-30°	662.5	8.5
30°-40°	1005.5	12.9
40°-50°	1366.4	17.5
50°-60°	1625.0	20.8
60°-70°	1671.9	21.4
70°-80°	912.0	11.7
80°-90°	72.5	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°	7819.0	100.0
0°-180°	7819.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509255

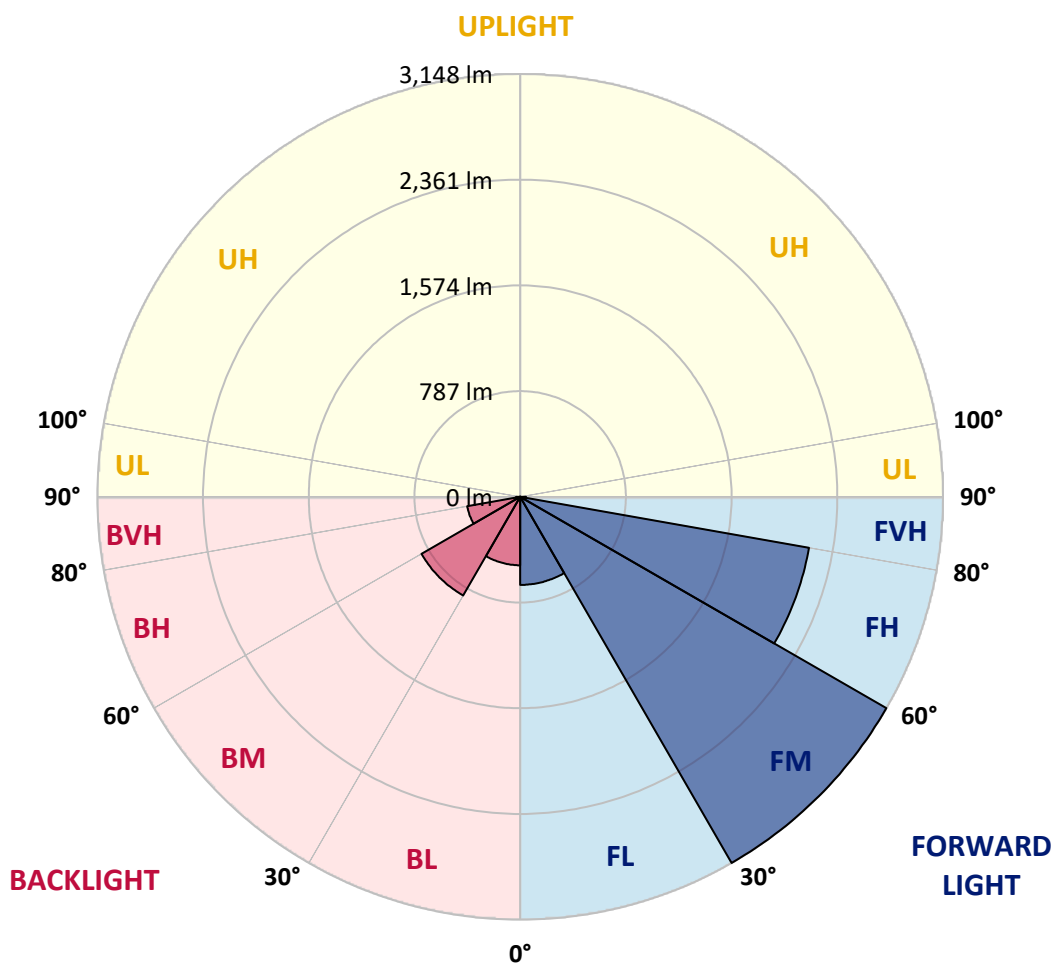
CATALOG NUMBER: VERD-CA2-60-727-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	655.8	8.4			
FM (30°-60°)	3148.3	40.3			
FH (60°-80°)	2183.7	27.9			G2/5000
FVH (80°-90°)	43.4	0.6			G1/100
BL (0°-30°)	509.8	6.5	B2/1000		
BM (30°-60°)	848.7	10.9	B1/1000		
BH (60°-80°)	400.3	5.1	B1/500		G1/500
BVH (80°-90°)	29.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





REPORT NUMBER: P509255
 CATALOG NUMBER: VERD-CA2-60-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9
2.5°	1189.7	1184.6	1177.8	1180.3	1175.3	1183.7	1180.3	1178.7	1178.7	1179.5	1183.7
5°	1216.8	1211.7	1206.6	1205.7	1195.6	1199.0	1193.9	1188.8	1188.8	1188.0	1189.7
7.5°	1264.2	1257.4	1251.5	1250.6	1237.9	1236.2	1221.0	1210.8	1210.8	1210.0	1212.5
10°	1326.8	1324.3	1312.4	1304.8	1289.6	1279.4	1260.8	1244.7	1241.3	1236.2	1243.0
12.5°	1386.9	1386.1	1375.1	1366.6	1345.5	1327.7	1297.2	1275.2	1270.9	1265.0	1270.1
15°	1462.3	1454.7	1442.8	1437.8	1407.3	1380.2	1345.5	1312.4	1308.2	1301.4	1305.7
17.5°	1545.3	1541.1	1522.4	1516.5	1478.4	1447.1	1403.9	1361.5	1354.8	1345.5	1344.6
20°	1645.2	1637.6	1623.2	1606.3	1569.0	1524.1	1474.2	1425.9	1420.0	1412.4	1396.3
22.5°	1752.7	1744.3	1729.9	1712.1	1664.7	1617.3	1554.6	1493.6	1490.3	1485.2	1455.5
25°	1855.2	1840.8	1842.5	1825.6	1783.2	1723.1	1649.4	1576.6	1574.9	1574.1	1526.7
27.5°	1964.4	1949.2	1944.1	1938.2	1898.4	1841.6	1758.7	1689.2	1683.3	1684.2	1612.2
30°	2066.9	2060.1	2055.9	2051.6	2032.2	1981.4	1901.8	1840.0	1858.6	1856.9	1757.8
32.5°	2146.5	2141.4	2159.2	2179.5	2174.4	2132.1	2077.0	2049.1	2067.7	2127.8	2041.5
35°	2216.7	2214.2	2248.1	2291.3	2321.7	2291.3	2285.3	2328.5	2371.7	2471.6	2421.7
37.5°	2293.0	2289.6	2318.4	2392.0	2445.4	2454.7	2499.6	2610.5	2652.0	2751.9	2646.9
40°	2292.1	2296.3	2365.8	2459.8	2557.1	2635.9	2728.2	2835.7	2889.1	2936.5	2773.9
42.5°	2254.9	2257.4	2344.6	2523.3	2664.7	2819.6	2901.8	3039.8	3076.2	3085.5	2923.8
45°	2216.7	2218.4	2313.3	2514.0	2754.4	2991.5	3083.0	3209.1	3237.1	3204.9	3025.4
47.5°	2161.7	2172.7	2275.2	2504.6	2831.5	3149.8	3223.5	3348.8	3359.8	3319.2	3110.1
50°	2096.5	2102.4	2220.1	2474.2	2882.3	3248.1	3335.3	3448.7	3469.9	3424.2	3215.0
52.5°	2016.9	2022.0	2149.9	2433.5	2910.2	3323.4	3420.8	3556.3	3585.1	3564.7	3307.3
55°	1925.5	1928.0	2058.4	2367.5	2902.6	3356.5	3495.3	3708.7	3757.0	3707.0	3384.4
57.5°	1811.2	1820.5	1968.7	2268.4	2845.0	3397.9	3629.9	3896.7	3958.5	3851.8	3442.0
60°	1693.5	1702.8	1837.4	2153.2	2748.5	3416.6	3768.8	4099.0	4153.2	3989.0	3477.5
62.5°	1561.4	1574.1	1685.8	1979.7	2575.8	3392.0	3871.3	4276.0	4306.5	4071.1	3468.2
65°	1369.2	1375.9	1497.9	1770.5	2350.5	3264.2	3867.0	4370.8	4381.0	4161.7	3427.6
67.5°	1155.8	1156.6	1271.8	1518.2	2040.6	3025.4	3807.8	4432.6	4482.6	4228.6	3338.7
70°	878.9	890.8	980.5	1163.4	1668.1	2617.3	3612.2	4371.7	4348.0	4045.7	3083.8
72.5°	627.4	620.7	666.4	790.0	1167.6	2019.5	3114.3	3950.0	3955.1	3685.0	2683.3
75°	333.6	335.3	374.3	478.4	596.1	1314.1	2491.1	3337.0	3367.5	3160.0	2099.9
77.5°	74.5	84.7	128.7	182.9	259.1	420.8	1351.4	2188.8	2246.4	2079.6	1150.7
80°	57.6	58.4	84.7	104.1	114.3	201.5	429.3	794.2	881.4	832.3	432.7
82.5°	38.1	38.9	55.9	57.6	55.0	92.3	194.7	237.9	261.6	228.6	160.9
85°	20.3	21.2	25.4	27.9	22.0	27.1	25.4	20.3	21.2	18.6	18.6
87.5°	4.2	2.5	3.4	2.5	2.5	1.7	2.5	2.5	2.5	2.5	2.5
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: P509255
 CATALOG NUMBER: VERD-CA2-60-727-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9	1182.9
2.5°	1183.7	1185.4	1189.7	1196.4	1199.8	1207.4	1212.5	1225.2	1243.0	1237.1	1229.5
5°	1190.5	1195.6	1210.0	1227.8	1241.3	1261.6	1271.8	1296.3	1316.7	1315.0	1301.4
7.5°	1215.9	1226.9	1244.7	1270.9	1293.8	1314.1	1328.5	1354.8	1373.4	1365.8	1353.1
10°	1248.1	1259.1	1278.6	1302.3	1319.2	1341.2	1350.5	1371.7	1383.6	1374.2	1363.2
12.5°	1277.7	1283.6	1297.2	1315.0	1324.3	1338.7	1342.9	1358.2	1369.2	1364.9	1351.4
15°	1306.5	1305.7	1308.2	1313.3	1316.7	1320.1	1320.9	1331.9	1339.5	1331.1	1321.8
17.5°	1338.7	1330.2	1319.2	1310.7	1298.0	1292.1	1281.1	1286.2	1285.3	1278.6	1270.9
20°	1379.3	1364.1	1330.2	1304.0	1270.9	1244.7	1221.8	1217.6	1217.6	1199.0	1198.1
22.5°	1427.6	1402.2	1345.5	1287.9	1234.5	1193.0	1150.7	1126.2	1108.4	1094.8	1088.9
25°	1490.3	1443.7	1359.0	1265.9	1187.1	1111.8	1048.3	1014.4	980.5	958.5	955.1
27.5°	1557.1	1506.3	1367.5	1246.4	1121.9	1018.6	930.6	861.1	829.8	815.4	801.9
30°	1666.4	1576.6	1382.7	1204.9	1039.8	904.3	787.5	706.2	675.7	665.5	657.1
32.5°	1931.4	1758.7	1397.1	1162.6	951.7	778.1	624.0	555.5	529.2	539.4	542.8
35°	2263.3	2029.6	1465.7	1113.5	860.3	635.0	480.1	434.4	436.1	451.3	456.4
37.5°	2488.5	2268.4	1605.4	1051.6	729.0	470.8	371.7	357.3	370.0	383.6	386.1
40°	2620.6	2377.6	1703.6	975.4	574.1	352.2	279.4	269.3	296.4	326.8	345.5
42.5°	2761.2	2470.8	1754.4	876.4	403.0	254.9	214.2	221.8	265.0	291.3	303.1
45°	2836.6	2543.6	1731.6	735.0	274.3	198.1	192.2	213.4	256.6	280.3	283.7
47.5°	2917.8	2616.4	1676.5	587.6	210.0	188.0	188.8	214.2	258.3	283.7	283.7
50°	2988.1	2676.5	1578.3	460.6	199.8	181.2	189.7	218.5	260.8	282.8	282.0
52.5°	3069.4	2703.6	1438.6	372.6	189.7	175.3	190.5	221.8	256.6	269.3	267.6
55°	3094.8	2684.1	1371.7	311.6	182.0	171.9	193.9	226.9	254.9	257.4	253.2
57.5°	3094.8	2631.6	1295.5	265.9	175.3	171.9	195.6	226.1	264.2	280.3	278.6
60°	3081.3	2576.6	1178.7	237.9	166.0	170.2	196.4	238.8	314.1	331.9	331.1
62.5°	3038.1	2487.7	1034.7	210.0	156.6	171.0	193.9	256.6	359.0	351.4	332.8
65°	2935.6	2320.0	839.1	184.6	146.5	171.0	190.5	282.0	319.2	304.8	298.1
67.5°	2742.6	2109.2	624.0	158.3	134.6	160.0	185.4	264.2	271.0	254.9	244.7
70°	2487.7	1786.6	400.5	133.8	121.9	150.7	182.0	248.1	261.6	242.2	229.5
72.5°	2072.8	1419.1	232.0	109.2	103.3	138.9	175.3	240.5	257.4	231.2	213.4
75°	1462.3	895.8	152.4	80.4	83.0	118.5	162.6	225.2	241.3	209.1	183.7
77.5°	745.1	336.2	108.4	59.3	55.9	90.6	140.6	207.4	237.9	210.8	180.4
80°	263.3	169.3	71.1	38.9	36.4	55.9	107.5	176.1	223.5	205.8	199.8
82.5°	112.6	84.7	38.9	24.6	22.0	27.9	61.0	138.9	196.4	186.3	225.2
85°	16.1	14.4	11.0	9.3	9.3	12.7	19.5	68.6	132.9	151.6	183.7
87.5°	2.5	2.5	2.5	1.7	1.7	1.7	0.8	10.2	44.0	66.0	91.4
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)