

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: P509385

Luminaire Tested: **VERD-CA2-80-760-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509385
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-80-760-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 1100mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11646 lumens
Efficiency: N/A
Efficacy: 141.3 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

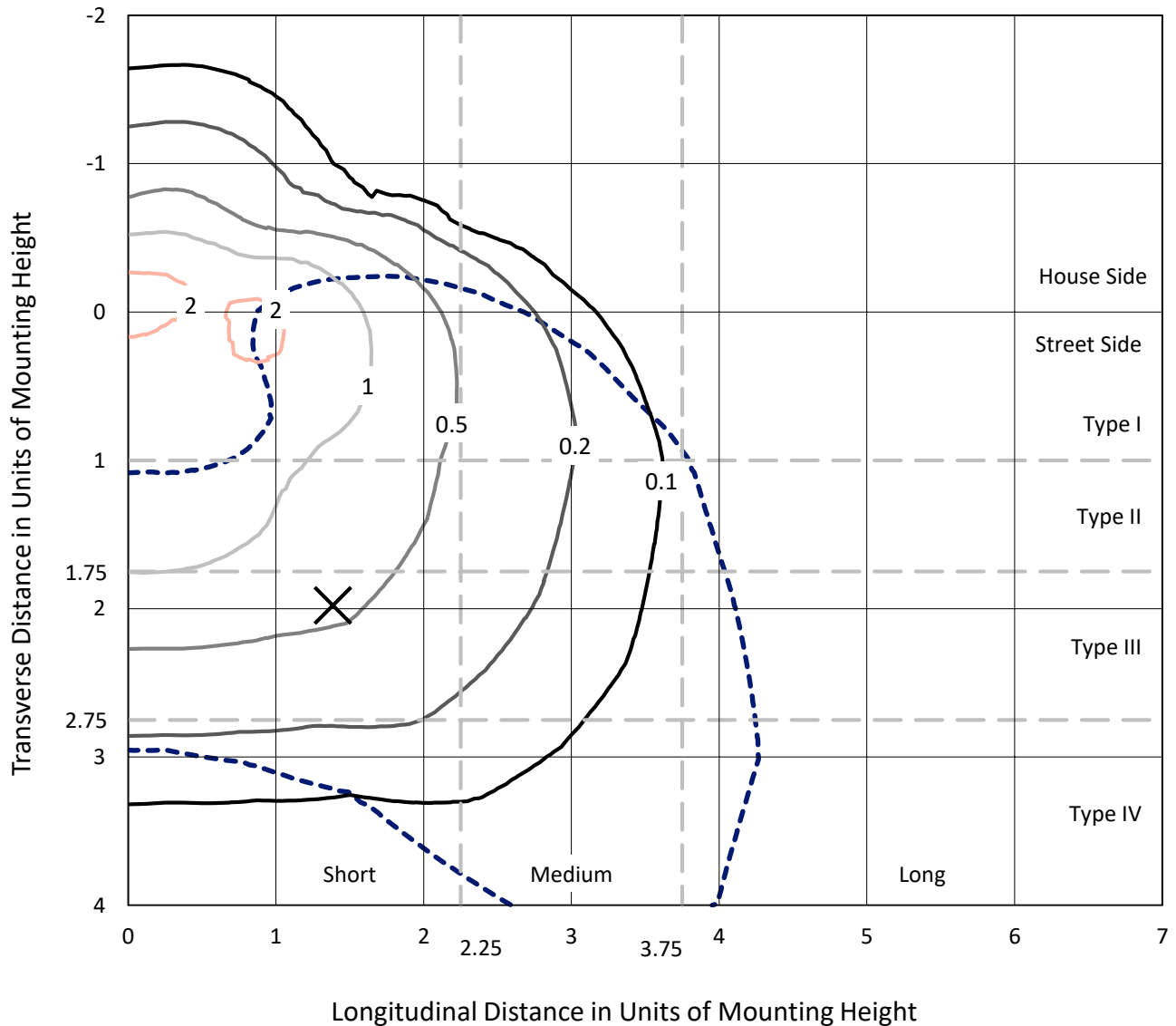
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509385
 CATALOG NUMBER: VERD-CA2-80-760-U-T4

Iso-Footcandle Lines of Horizontal Illumination

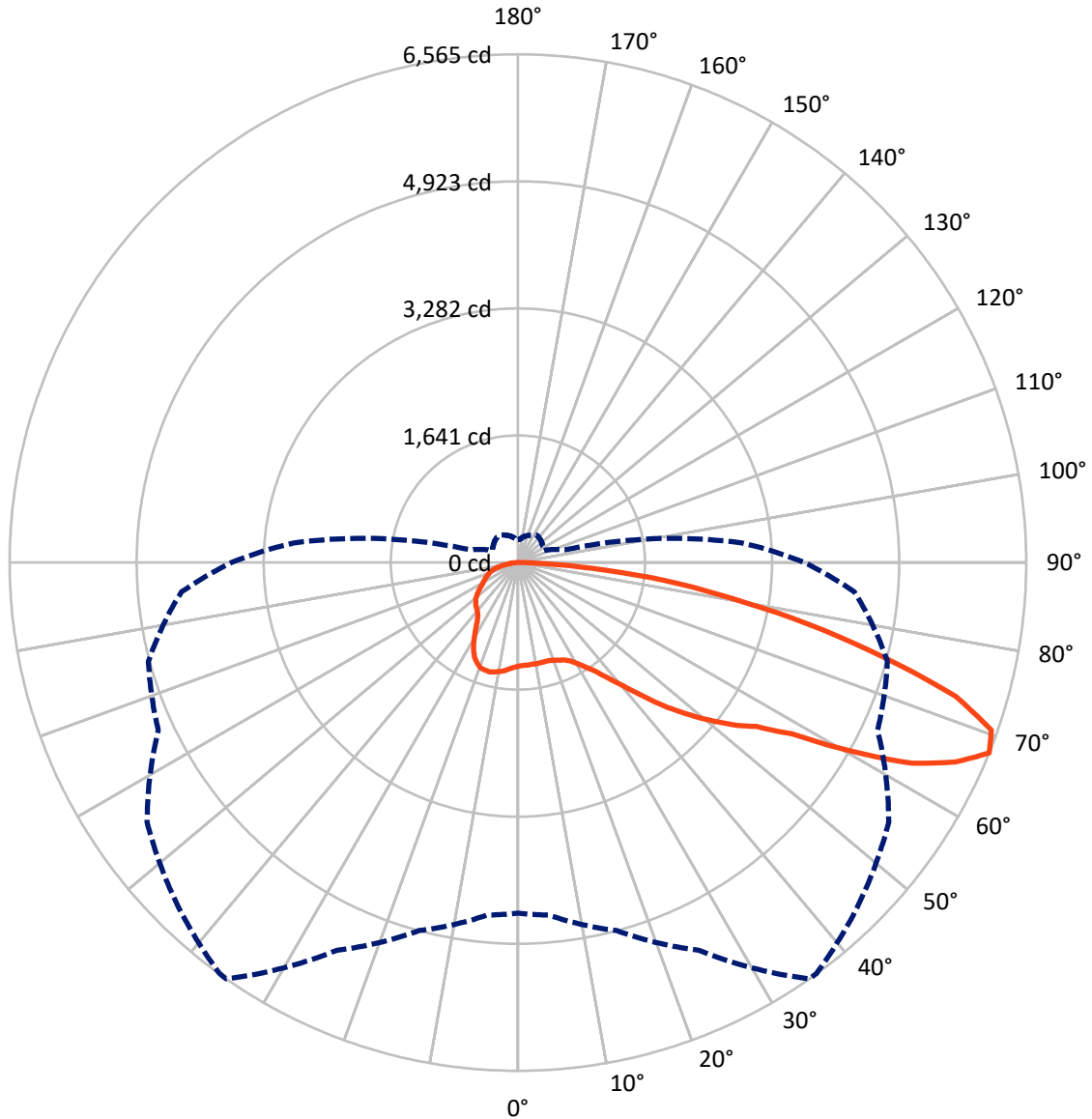
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P509385
CATALOG NUMBER: VERD-CA2-80-760-U-T4

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P509385

CATALOG NUMBER: VERD-CA2-80-760-U-T4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2653.2	0.0	2653.2
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	8992.8	0.0	8992.8
	% Fixture	77.2	0.0	77.2
Total	Lumens	11646.0	0.0	11646.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.5	1.1
10°-20°	397.3	3.4
20°-30°	663.0	5.7
30°-40°	1020.1	8.8
40°-50°	1681.1	14.4
50°-60°	2401.2	20.6
60°-70°	2989.6	25.7
70°-80°	2017.5	17.3
80°-90°	346.8	3.0
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°	11646.0	100.0
0°-180°	11646.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509385

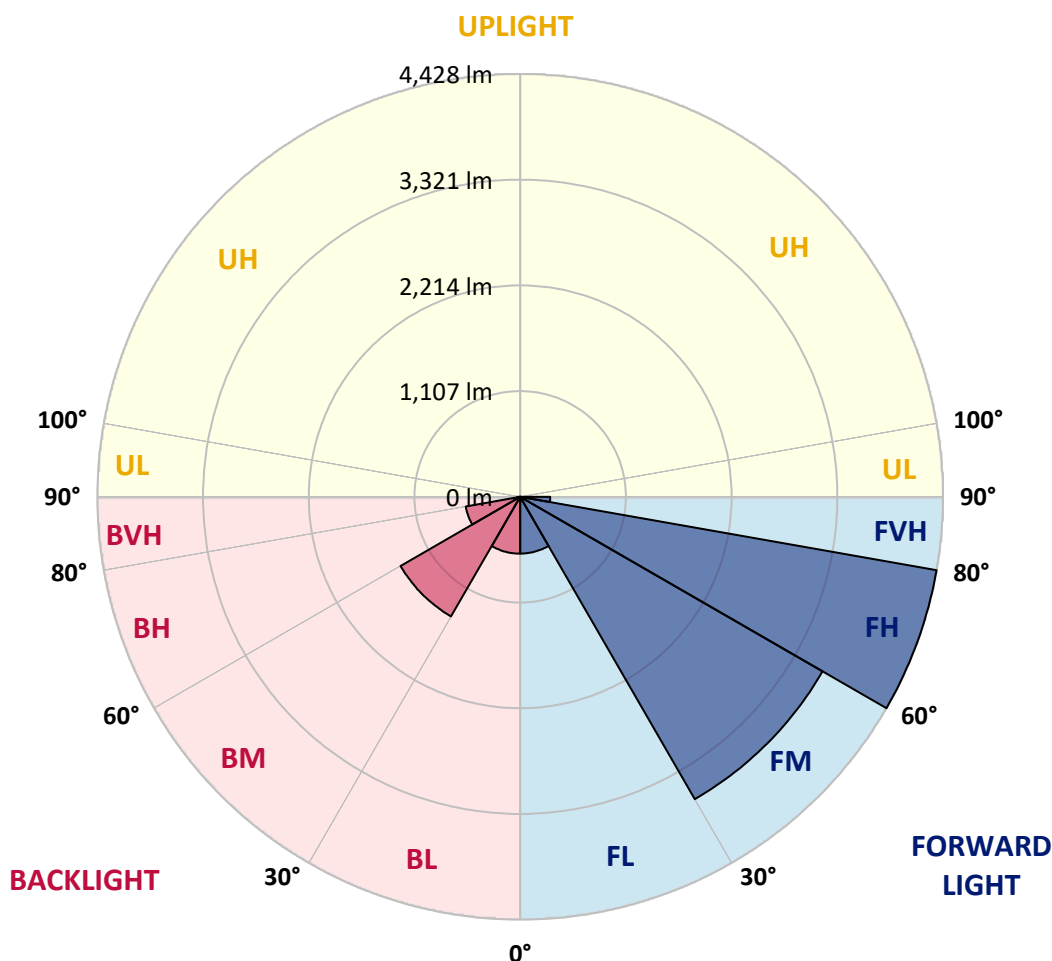
CATALOG NUMBER: VERD-CA2-80-760-U-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	594.3	5.1			
FM	(30°-60°)	3655.8	31.4			
FH	(60°-80°)	4427.9	38.0			G2/5000
FVH	(80°-90°)	314.8	2.7			G3/500
BL	(0°-30°)	595.5	5.1	B2/1000		
BM	(30°-60°)	1446.6	12.4	B2/2500		
BH	(60°-80°)	579.2	5.0	B2/1000		G2/1000
BVH	(80°-90°)	32.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





REPORT NUMBER: P509385

CATALOG NUMBER: VERD-CA2-80-760-U-T4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1338.3	1338.3	1338.3	1338.3	1338.3	1338.3	1338.3	1338.3	1338.3	1338.3	1338.3
2.5°	1319.4	1332.0	1330.7	1328.2	1329.5	1330.7	1324.5	1320.7	1325.7	1327.0	1333.3
5°	1318.2	1328.2	1327.0	1327.0	1330.7	1329.5	1319.4	1311.9	1320.7	1327.0	1333.3
7.5°	1316.9	1325.7	1325.7	1322.0	1324.5	1324.5	1319.4	1324.5	1324.5	1334.5	1342.0
10°	1315.7	1323.2	1323.2	1324.5	1328.2	1329.5	1329.5	1333.3	1347.1	1350.8	1365.9
12.5°	1300.6	1306.9	1311.9	1319.4	1327.0	1329.5	1335.8	1347.1	1364.6	1373.4	1391.0
15°	1288.1	1296.8	1305.6	1313.2	1324.5	1327.0	1340.8	1359.6	1378.4	1397.3	1423.6
17.5°	1293.1	1304.4	1314.4	1320.7	1329.5	1332.0	1345.8	1370.9	1401.0	1428.7	1465.1
20°	1304.4	1316.9	1327.0	1334.5	1345.8	1348.3	1359.6	1383.5	1422.4	1465.1	1506.5
22.5°	1332.0	1340.8	1352.1	1355.9	1368.4	1370.9	1378.4	1402.3	1452.5	1506.5	1559.2
25°	1357.1	1367.1	1375.9	1379.7	1393.5	1396.0	1409.8	1429.9	1488.9	1550.4	1627.0
27.5°	1389.7	1399.8	1411.1	1414.9	1438.7	1441.2	1447.5	1477.6	1536.6	1608.2	1703.6
30°	1452.5	1458.8	1471.3	1486.4	1510.3	1512.8	1526.6	1558.0	1600.7	1688.5	1815.3
32.5°	1547.9	1556.7	1551.7	1571.8	1606.9	1606.9	1654.6	1707.4	1760.1	1821.6	1989.8
35°	1731.2	1726.2	1721.2	1703.6	1724.9	1732.5	1799.0	1888.1	2035.0	2208.3	2374.0
37.5°	1958.5	1957.2	1930.8	1890.7	1889.4	1891.9	1952.2	2102.8	2336.3	2721.7	2900.0
40°	2307.5	2317.5	2224.6	2141.7	2095.3	2085.2	2133.0	2322.5	2636.4	3149.8	3271.6
42.5°	2656.5	2635.1	2559.8	2425.5	2347.6	2341.4	2350.1	2515.9	2927.6	3496.3	3540.3
45°	2965.3	2981.6	2863.6	2782.0	2638.9	2641.4	2602.5	2754.4	3216.4	3741.1	3748.7
47.5°	3280.4	3293.0	3146.1	3053.2	2916.3	2916.3	2854.8	2975.3	3473.7	3974.7	3959.6
50°	3616.9	3645.7	3461.2	3320.6	3195.0	3190.0	3171.2	3246.5	3727.3	4171.8	4111.5
52.5°	4071.3	3972.1	3797.6	3606.8	3482.5	3467.5	3449.9	3503.9	4018.6	4332.4	4209.4
55°	4540.8	4406.5	4228.2	3972.1	3737.4	3758.7	3714.8	3776.3	4286.0	4524.5	4337.5
57.5°	4825.8	4876.0	4779.4	4559.7	4173.0	4169.2	4003.5	4036.2	4525.8	4686.5	4473.1
60°	5125.9	5196.2	5261.5	5130.9	4947.6	4864.7	4439.2	4312.4	4795.7	4804.5	4458.0
62.5°	5282.8	5269.0	5552.7	5567.8	5709.6	5719.7	5304.1	4670.2	4955.1	4903.7	4510.7
65°	5002.8	5010.4	5477.4	5720.9	6209.3	6238.2	6086.3	5299.1	5089.5	4950.1	4450.5
67.5°	4528.3	4571.0	4921.2	5523.8	6564.6	6559.6	6230.6	5846.5	5124.6	4940.1	4362.6
70°	3703.5	3748.7	4107.7	4982.8	6486.7	6445.3	6169.1	5890.4	5094.5	4849.7	3924.4
72.5°	2841.0	2834.7	3206.3	3979.7	5914.3	5954.4	5854.0	5580.3	4950.1	4463.0	3215.1
75°	2002.4	1971.0	2301.2	3016.8	4877.3	5025.4	5368.2	5292.8	4404.0	3673.4	2149.3
77.5°	1314.4	1362.1	1625.8	2230.9	3835.3	3959.6	4432.9	4283.5	3259.1	2343.9	775.8
80°	834.9	877.5	1091.0	1593.1	2788.3	2844.8	3231.4	2724.3	1741.3	773.3	108.0
82.5°	507.2	513.5	703.0	1077.1	1923.3	1923.3	2035.0	1522.8	681.7	100.4	70.3
85°	269.9	285.0	379.1	581.3	969.2	1042.0	922.7	581.3	131.8	55.2	42.7
87.5°	85.4	86.6	124.3	224.7	208.4	214.7	71.6	30.1	15.1	10.0	8.8
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: P509385
 CATALOG NUMBER: VERD-CA2-80-760-U-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1338.3	1338.3	1338.3	1338.3	1338.3	1338.3	1338.3	1338.3	1338.3	1338.3	1338.3
2.5°	1335.8	1337.0	1344.6	1348.3	1349.6	1345.8	1354.6	1367.1	1363.4	1377.2	1372.2
5°	1335.8	1342.0	1352.1	1350.8	1360.9	1365.9	1375.9	1388.5	1384.7	1404.8	1397.3
7.5°	1345.8	1355.9	1363.4	1378.4	1386.0	1383.5	1406.1	1416.1	1411.1	1426.2	1418.6
10°	1370.9	1382.2	1392.3	1408.6	1419.9	1414.9	1427.4	1433.7	1424.9	1440.0	1436.2
12.5°	1399.8	1412.3	1432.4	1443.7	1452.5	1443.7	1443.7	1440.0	1427.4	1441.2	1432.4
15°	1432.4	1448.8	1476.4	1488.9	1486.4	1471.3	1457.5	1431.2	1397.3	1403.6	1391.0
17.5°	1476.4	1496.5	1527.8	1535.4	1525.3	1488.9	1452.5	1404.8	1344.6	1329.5	1319.4
20°	1524.1	1546.7	1590.6	1586.8	1564.2	1500.2	1442.5	1368.4	1274.2	1231.6	1211.5
22.5°	1589.4	1612.0	1653.4	1630.8	1584.3	1500.2	1402.3	1299.4	1187.6	1124.9	1111.0
25°	1660.9	1692.3	1709.9	1659.7	1579.3	1466.3	1348.3	1212.7	1069.6	1001.8	988.0
27.5°	1748.8	1770.1	1752.6	1663.4	1554.2	1409.8	1260.4	1097.2	960.4	902.6	882.6
30°	1851.7	1854.3	1785.2	1655.9	1497.7	1329.5	1152.5	980.5	875.0	821.0	808.5
32.5°	1988.6	1963.5	1814.1	1620.7	1421.1	1219.0	1032.0	902.6	814.8	747.0	729.4
35°	2345.1	2230.9	1878.1	1580.6	1328.2	1096.0	927.8	832.3	758.3	681.7	667.9
37.5°	2807.1	2605.0	1991.1	1539.1	1222.8	983.0	858.7	790.9	728.1	642.8	623.9
40°	3153.6	2920.1	2165.6	1493.9	1126.1	902.6	821.0	774.6	705.5	627.7	607.6
42.5°	3418.5	3182.5	2345.1	1443.7	1035.7	839.9	794.7	763.3	696.8	623.9	607.6
45°	3601.8	3365.8	2499.5	1384.7	920.2	785.9	774.6	744.5	680.4	610.1	593.8
47.5°	3787.6	3495.1	2586.2	1323.2	823.6	755.8	745.7	711.8	652.8	586.3	573.7
50°	3949.5	3642.0	2660.2	1260.4	747.0	719.4	713.1	667.9	611.4	548.6	532.3
52.5°	3996.0	3677.1	2630.1	1256.7	677.9	680.4	667.9	631.5	578.7	511.0	494.6
55°	4101.4	3775.0	2557.3	1141.2	611.4	620.2	617.7	598.8	549.9	487.1	474.5
57.5°	4146.6	3701.0	2451.8	848.7	542.3	549.9	571.2	571.2	528.5	472.0	460.7
60°	4140.4	3703.5	2263.5	593.8	474.5	494.6	524.8	524.8	490.9	435.6	421.8
62.5°	4092.7	3608.1	1950.9	453.2	431.9	460.7	495.9	473.3	443.2	381.6	371.6
65°	4013.6	3345.7	1352.1	398.0	408.0	441.9	459.5	431.9	395.5	340.2	333.9
67.5°	3697.2	2906.3	629.0	364.1	387.9	414.3	429.4	390.4	352.8	302.6	295.0
70°	3147.3	2126.7	271.2	337.7	364.1	382.9	398.0	357.8	317.6	273.7	271.2
72.5°	2288.6	1134.9	226.0	296.3	323.9	344.0	362.8	322.6	283.7	232.3	232.3
75°	1102.3	188.3	194.6	246.1	271.2	311.3	320.1	263.6	219.7	177.0	173.2
77.5°	135.6	121.8	168.2	195.8	217.2	238.5	259.9	228.5	189.6	145.6	138.1
80°	85.4	85.4	133.1	136.8	148.1	170.7	190.8	178.3	149.4	84.1	77.8
82.5°	62.8	67.8	87.9	65.3	77.8	97.9	111.7	126.8	108.0	59.0	55.2
85°	40.2	43.9	41.4	32.6	42.7	65.3	89.1	87.9	72.8	43.9	41.4
87.5°	8.8	8.8	8.8	7.5	8.8	11.3	21.3	41.4	30.1	23.9	22.6
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)