

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: P509393

Luminaire Tested: **VERD-CA2-90-722-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509393
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-CA2-90-722-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1250mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10617 lumens
Efficiency: N/A
Efficacy: 112.7 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

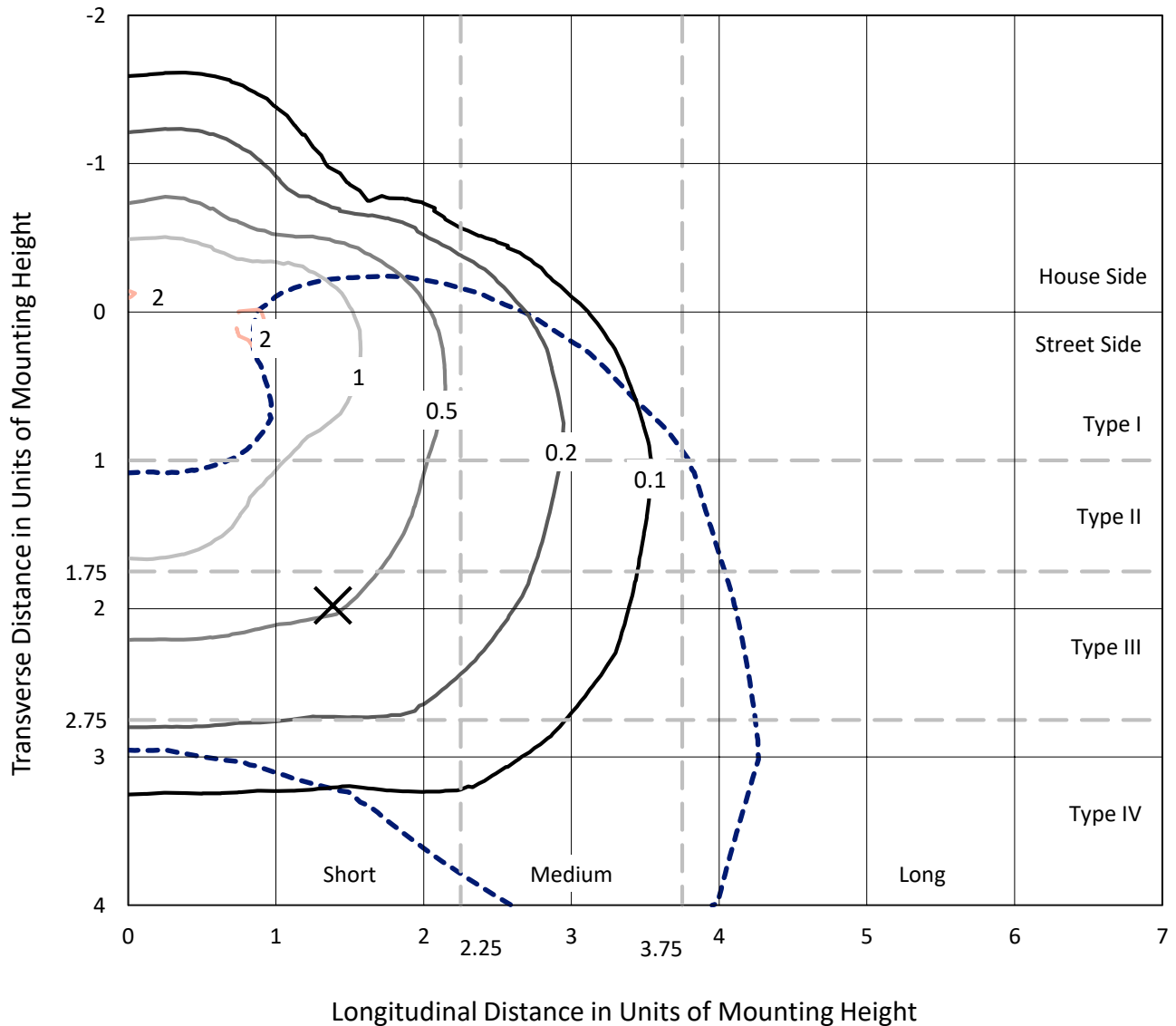
Input Watts (W): 94.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

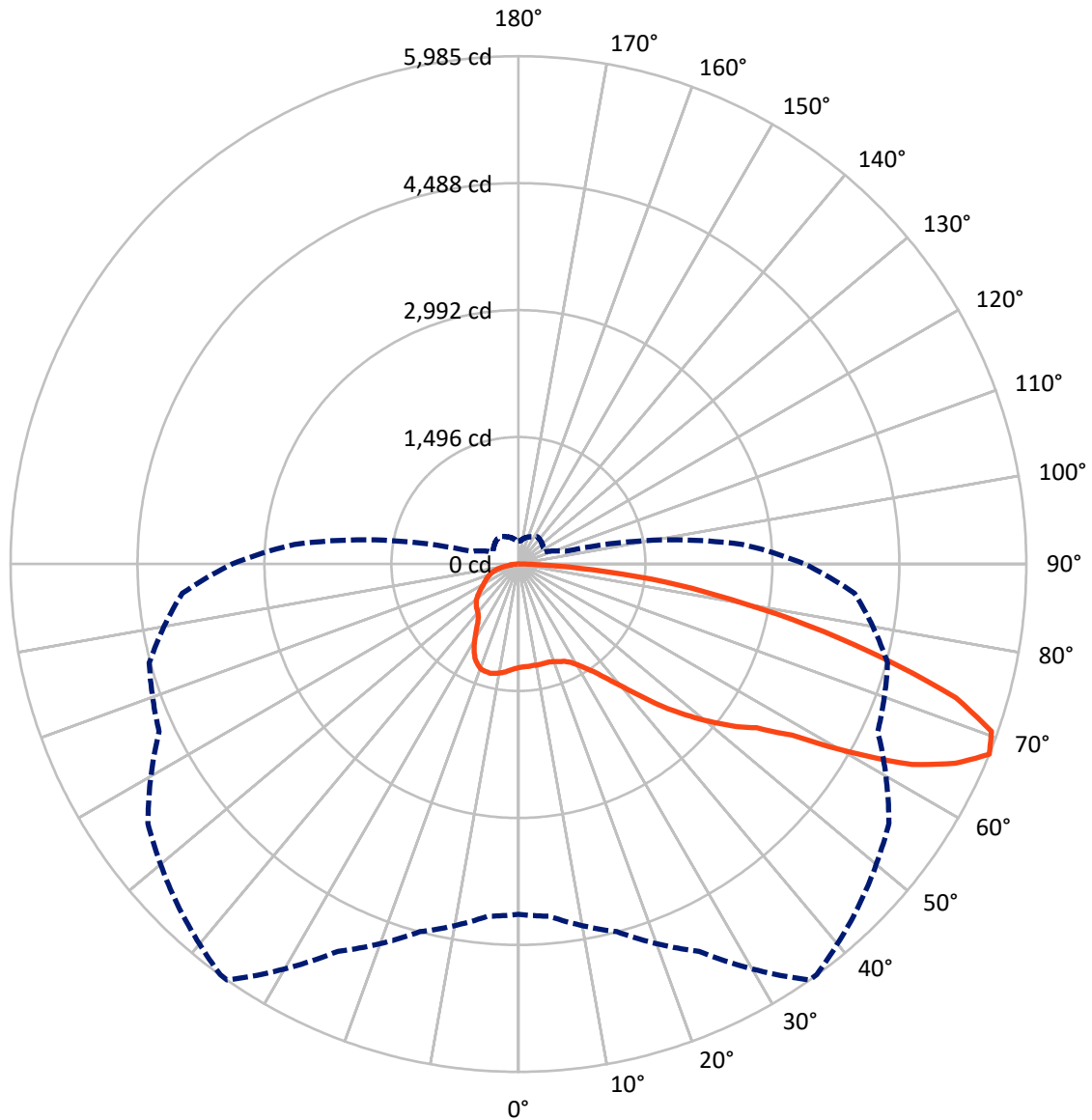
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2418.8	0.0	2418.8
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	8198.2	0.0	8198.2
	% Fixture	77.2	0.0	77.2
Total	Lumens	10617.0	0.0	10617.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.1	1.1
10°-20°	362.2	3.4
20°-30°	604.4	5.7
30°-40°	930.0	8.8
40°-50°	1532.6	14.4
50°-60°	2189.0	20.6
60°-70°	2725.4	25.7
70°-80°	1839.2	17.3
80°-90°	316.1	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°	10617.0	100.0
0°-180°	10617.0	100.0

Coefficient of Utilization



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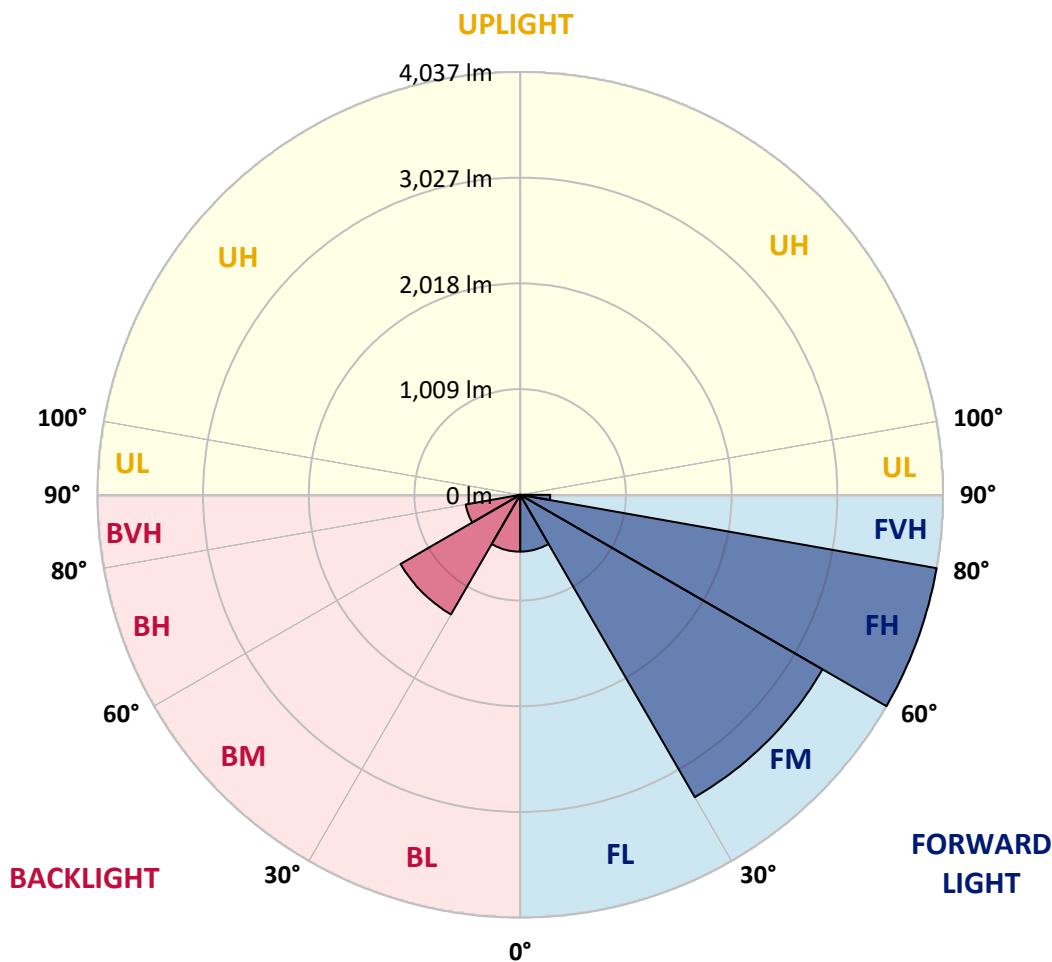
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	541.8	5.1			
FM (30°-60°)	3332.8	31.4			
FH (60°-80°)	4036.6	38.0			G2/5000
FVH (80°-90°)	287.0	2.7			G3/500
BL (0°-30°)	542.9	5.1	B2/1000		
BM (30°-60°)	1318.8	12.4	B2/2500		
BH (60°-80°)	528.0	5.0	B2/1000		G2/1000
BVH (80°-90°)	29.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0
2.5°	1202.9	1214.3	1213.2	1210.9	1212.0	1213.2	1207.4	1204.0	1208.6	1209.7	1215.5
5°	1201.7	1210.9	1209.7	1209.7	1213.2	1212.0	1202.9	1196.0	1204.0	1209.7	1215.5
7.5°	1200.6	1208.6	1208.6	1205.2	1207.4	1207.4	1202.9	1207.4	1207.4	1216.6	1223.5
10°	1199.4	1206.3	1206.3	1207.4	1210.9	1212.0	1212.0	1215.5	1228.0	1231.5	1245.2
12.5°	1185.7	1191.4	1196.0	1202.9	1209.7	1212.0	1217.7	1228.0	1244.1	1252.1	1268.1
15°	1174.2	1182.3	1190.3	1197.1	1207.4	1209.7	1222.3	1239.5	1256.7	1273.8	1297.9
17.5°	1178.8	1189.1	1198.3	1204.0	1212.0	1214.3	1226.9	1249.8	1277.3	1302.4	1335.6
20°	1189.1	1200.6	1209.7	1216.6	1226.9	1229.2	1239.5	1261.2	1296.7	1335.6	1373.4
22.5°	1214.3	1222.3	1232.6	1236.1	1247.5	1249.8	1256.7	1278.4	1324.2	1373.4	1421.5
25°	1237.2	1246.4	1254.4	1257.8	1270.4	1272.7	1285.3	1303.6	1357.4	1413.4	1483.3
27.5°	1267.0	1276.1	1286.4	1289.8	1311.6	1313.9	1319.6	1347.1	1400.9	1466.1	1553.1
30°	1324.2	1329.9	1341.3	1355.1	1376.8	1379.1	1391.7	1420.3	1459.2	1539.3	1654.9
32.5°	1411.2	1419.2	1414.6	1432.9	1465.0	1465.0	1508.4	1556.5	1604.6	1660.7	1814.0
35°	1578.3	1573.7	1569.1	1553.1	1572.5	1579.4	1640.1	1721.3	1855.2	2013.2	2164.2
37.5°	1785.4	1784.3	1760.2	1723.6	1722.5	1724.8	1779.7	1917.0	2129.9	2481.3	2643.8
40°	2103.6	2112.7	2028.0	1952.5	1910.2	1901.0	1944.5	2117.3	2403.4	2871.5	2982.5
42.5°	2421.7	2402.3	2333.6	2211.2	2140.2	2134.5	2142.5	2293.6	2669.0	3187.4	3227.5
45°	2703.3	2718.2	2610.6	2536.2	2405.7	2408.0	2372.5	2511.0	2932.2	3410.6	3417.5
47.5°	2990.6	3002.0	2868.1	2783.4	2658.7	2658.7	2602.6	2712.4	3166.8	3623.5	3609.7
50°	3297.3	3323.6	3155.4	3027.2	2912.7	2908.2	2891.0	2959.7	3398.0	3803.1	3748.2
52.5°	3711.6	3621.2	3462.1	3288.1	3174.8	3161.1	3145.1	3194.3	3663.5	3949.6	3837.5
55°	4139.6	4017.2	3854.7	3621.2	3407.2	3426.6	3386.6	3442.6	3907.3	4124.8	3954.2
57.5°	4399.4	4445.2	4357.1	4156.8	3804.3	3800.9	3649.8	3679.5	4125.9	4272.4	4077.8
60°	4673.0	4737.1	4796.6	4677.5	4510.4	4434.9	4046.9	3931.3	4372.0	4380.0	4064.1
62.5°	4816.0	4803.4	5062.1	5075.8	5205.2	5214.3	4835.5	4257.5	4517.3	4470.4	4112.2
65°	4560.8	4567.7	4993.4	5215.5	5660.7	5687.0	5548.5	4830.9	4639.8	4512.7	4057.2
67.5°	4128.2	4167.1	4486.4	5035.8	5984.6	5980.0	5680.1	5329.9	4671.8	4503.6	3977.1
70°	3376.3	3417.5	3744.8	4542.5	5913.6	5875.8	5624.0	5370.0	4644.4	4421.2	3577.7
72.5°	2590.0	2584.3	2923.0	3628.0	5391.7	5428.3	5336.8	5087.3	4512.7	4068.7	2931.0
75°	1825.5	1796.9	2097.9	2750.2	4446.4	4581.4	4893.9	4825.2	4014.9	3348.8	1959.4
77.5°	1198.3	1241.8	1482.1	2033.8	3496.4	3609.7	4041.2	3905.0	2971.1	2136.8	707.3
80°	761.1	800.0	994.6	1452.4	2541.9	2593.4	2945.9	2483.5	1587.4	705.0	98.4
82.5°	462.4	468.1	640.9	982.0	1753.4	1753.4	1855.2	1388.3	621.5	91.6	64.1
85°	246.1	259.8	345.6	529.9	883.5	949.9	841.2	529.9	120.2	50.4	38.9
87.5°	77.8	79.0	113.3	204.9	190.0	195.7	65.2	27.5	13.7	9.2	8.0
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°	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0
2.5°	1217.7	1218.9	1225.8	1229.2	1230.3	1226.9	1234.9	1246.4	1242.9	1255.5	1250.9
5°	1217.7	1223.5	1232.6	1231.5	1240.6	1245.2	1254.4	1265.8	1262.4	1280.7	1273.8
7.5°	1226.9	1236.1	1242.9	1256.7	1263.5	1261.2	1281.8	1291.0	1286.4	1300.1	1293.3
10°	1249.8	1260.1	1269.2	1284.1	1294.4	1289.8	1301.3	1307.0	1299.0	1312.7	1309.3
12.5°	1276.1	1287.6	1305.9	1316.2	1324.2	1316.2	1316.2	1312.7	1301.3	1313.9	1305.9
15°	1305.9	1320.7	1345.9	1357.4	1355.1	1341.3	1328.8	1304.7	1273.8	1279.5	1268.1
17.5°	1345.9	1364.2	1392.8	1399.7	1390.6	1357.4	1324.2	1280.7	1225.8	1212.0	1202.9
20°	1389.4	1410.0	1450.1	1446.6	1426.0	1367.7	1315.0	1247.5	1161.7	1122.7	1104.4
22.5°	1448.9	1469.5	1507.3	1486.7	1444.4	1367.7	1278.4	1184.6	1082.7	1025.5	1012.9
25°	1514.2	1542.8	1558.8	1513.0	1439.8	1336.8	1229.2	1105.6	975.1	913.3	900.7
27.5°	1594.3	1613.7	1597.7	1516.5	1416.9	1285.3	1149.1	1000.3	875.5	822.9	804.6
30°	1688.1	1690.4	1627.5	1509.6	1365.4	1212.0	1050.6	893.8	797.7	748.5	737.1
32.5°	1812.9	1790.0	1653.8	1477.5	1295.6	1111.3	940.8	822.9	742.8	681.0	665.0
35°	2137.9	2033.8	1712.2	1440.9	1210.9	999.1	845.8	758.8	691.3	621.5	608.9
37.5°	2559.1	2374.8	1815.2	1403.1	1114.7	896.1	782.8	721.0	663.8	586.0	568.8
40°	2875.0	2662.1	1974.3	1361.9	1026.6	822.9	748.5	706.2	643.2	572.2	553.9
42.5°	3116.5	2901.3	2137.9	1316.2	944.2	765.7	724.5	695.9	635.2	568.8	553.9
45°	3283.6	3068.4	2278.7	1262.4	838.9	716.5	706.2	678.7	620.3	556.2	541.3
47.5°	3452.9	3186.3	2357.7	1206.3	750.8	689.0	679.8	648.9	595.1	534.5	523.0
50°	3600.6	3320.2	2425.2	1149.1	681.0	655.8	650.1	608.9	557.4	500.1	485.3
52.5°	3642.9	3352.2	2397.7	1145.6	618.0	620.3	608.9	575.7	527.6	465.8	450.9
55°	3739.1	3441.5	2331.3	1040.3	557.4	565.4	563.1	545.9	501.3	444.1	432.6
57.5°	3780.3	3374.0	2235.2	773.7	494.4	501.3	520.7	520.7	481.8	430.3	420.0
60°	3774.5	3376.3	2063.5	541.3	432.6	450.9	478.4	478.4	447.5	397.1	384.5
62.5°	3731.0	3289.3	1778.5	413.2	393.7	420.0	452.1	431.5	404.0	347.9	338.8
65°	3658.9	3050.1	1232.6	362.8	372.0	402.9	418.9	393.7	360.5	310.2	304.4
67.5°	3370.5	2649.5	573.4	331.9	353.6	377.7	391.4	355.9	321.6	275.8	269.0
70°	2869.2	1938.8	247.2	307.9	331.9	349.1	362.8	326.2	289.6	249.5	247.2
72.5°	2086.4	1034.6	206.0	270.1	295.3	313.6	330.8	294.1	258.7	211.7	211.7
75°	1004.9	171.7	177.4	224.3	247.2	283.8	291.8	240.3	200.3	161.4	157.9
77.5°	123.6	111.0	153.4	178.5	198.0	217.5	236.9	208.3	172.8	132.8	125.9
80°	77.8	77.8	121.3	124.7	135.1	155.7	174.0	162.5	136.2	76.7	71.0
82.5°	57.2	61.8	80.1	59.5	71.0	89.3	101.9	115.6	98.4	53.8	50.4
85°	36.6	40.1	37.8	29.8	38.9	59.5	81.3	80.1	66.4	40.1	37.8
87.5°	8.0	8.0	8.0	6.9	8.0	10.3	19.5	37.8	27.5	21.7	20.6
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)