

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: P509313

Luminaire Tested: **VERD-CA2-70-730-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509313
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-CA2-70-730-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 980mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10386 lumens
Efficiency: N/A
Efficacy: 141.1 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

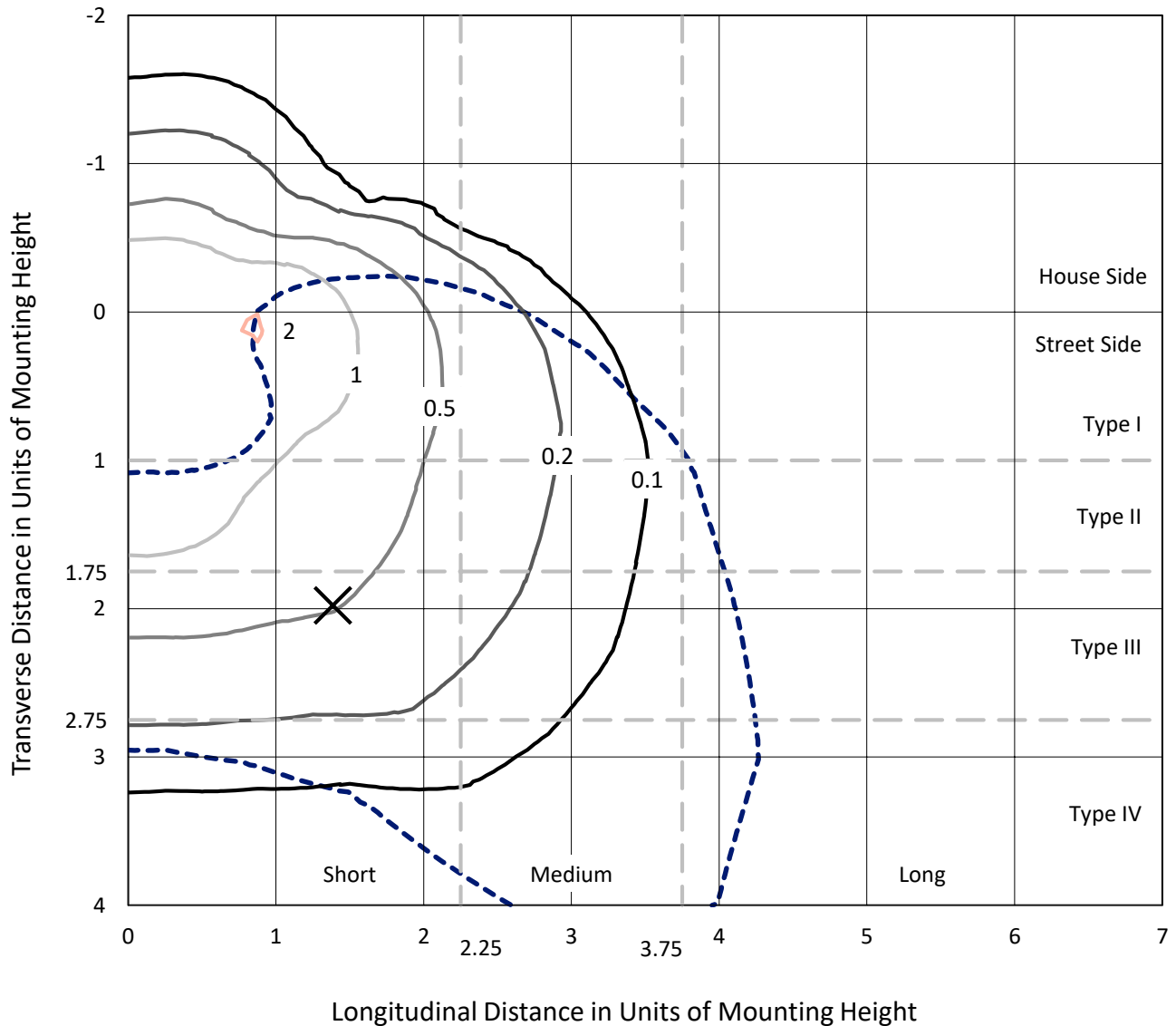
Input Watts (W): 73.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

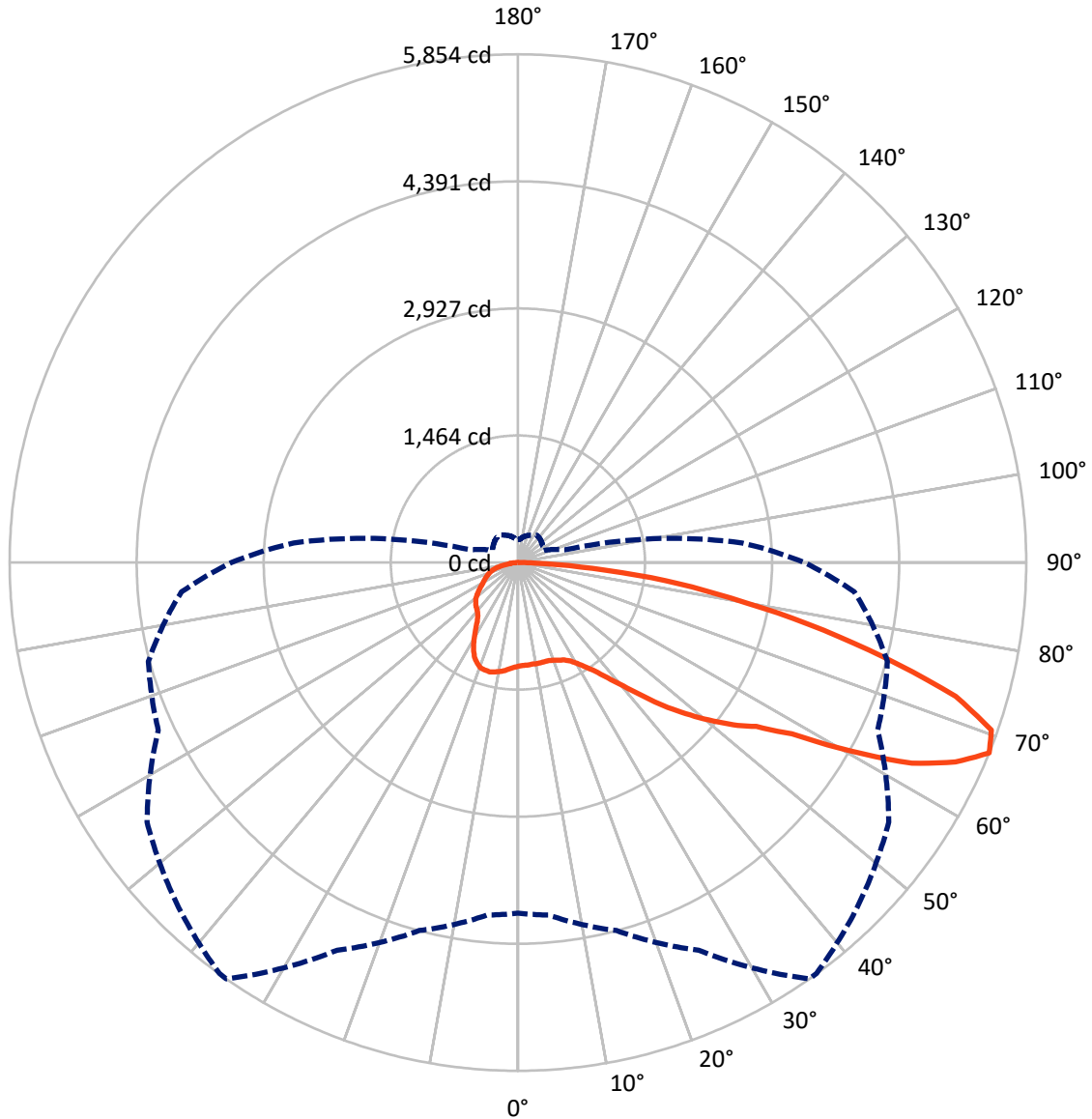
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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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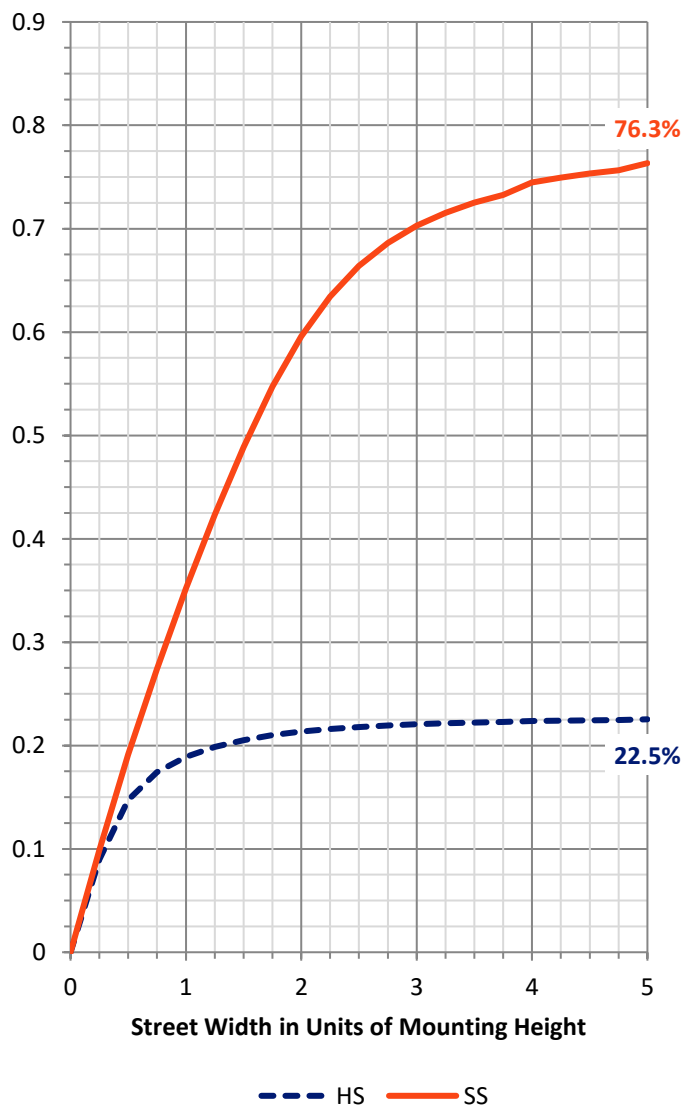
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2366.2	0.0	2366.2
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	8019.8	0.0	8019.8
	% Fixture	77.2	0.0	77.2
Total	Lumens	10386.0	0.0	10386.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.5	1.1
10°-20°	354.3	3.4
20°-30°	591.3	5.7
30°-40°	909.7	8.8
40°-50°	1499.2	14.4
50°-60°	2141.4	20.6
60°-70°	2666.1	25.7
70°-80°	1799.2	17.3
80°-90°	309.3	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°	10386.0	100.0
0°-180°	10386.0	100.0

Coefficient of Utilization



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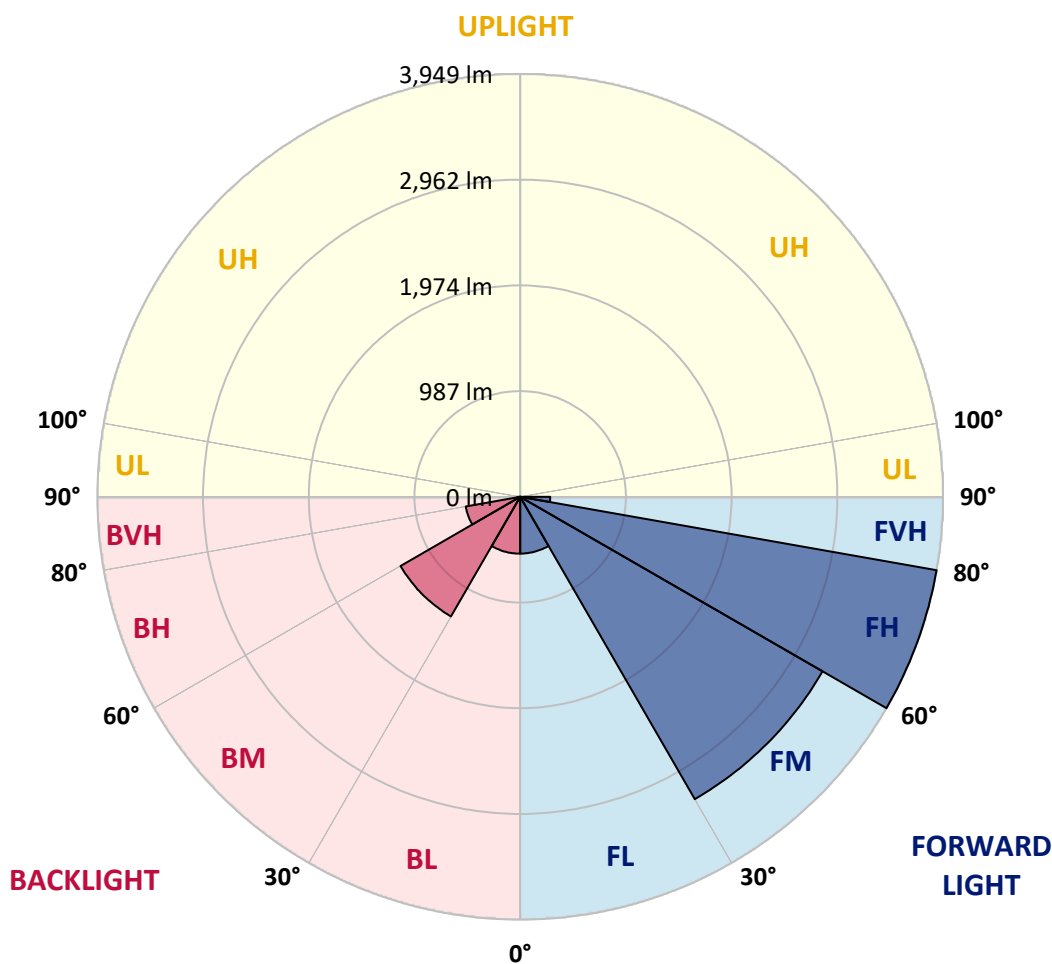
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	530.0	5.1			
FM (30°-60°)	3260.3	31.4			
FH (60°-80°)	3948.8	38.0			G2/5000
FVH (80°-90°)	280.7	2.7			G3/500
BL (0°-30°)	531.0	5.1	B2/1000		
BM (30°-60°)	1290.1	12.4	B2/2500		
BH (60°-80°)	516.5	5.0	B2/1000		G2/1000
BVH (80°-90°)	28.5	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°	1193.5	1193.5	1193.5	1193.5	1193.5	1193.5	1193.5	1193.5	1193.5	1193.5	1193.5
2.5°	1176.7	1187.9	1186.8	1184.5	1185.6	1186.8	1181.2	1177.8	1182.3	1183.4	1189.0
5°	1175.6	1184.5	1183.4	1183.4	1186.8	1185.6	1176.7	1170.0	1177.8	1183.4	1189.0
7.5°	1174.5	1182.3	1182.3	1178.9	1181.2	1181.2	1176.7	1181.2	1181.2	1190.1	1196.8
10°	1173.3	1180.0	1180.0	1181.2	1184.5	1185.6	1185.6	1189.0	1201.3	1204.7	1218.1
12.5°	1159.9	1165.5	1170.0	1176.7	1183.4	1185.6	1191.2	1201.3	1217.0	1224.8	1240.5
15°	1148.7	1156.5	1164.4	1171.1	1181.2	1183.4	1195.7	1212.5	1229.3	1246.1	1269.6
17.5°	1153.2	1163.3	1172.2	1177.8	1185.6	1187.9	1200.2	1222.6	1249.5	1274.1	1306.6
20°	1163.3	1174.5	1183.4	1190.1	1200.2	1202.4	1212.5	1233.8	1268.5	1306.6	1343.5
22.5°	1187.9	1195.7	1205.8	1209.2	1220.4	1222.6	1229.3	1250.6	1295.4	1343.5	1390.5
25°	1210.3	1219.2	1227.1	1230.4	1242.7	1245.0	1257.3	1275.2	1327.8	1382.7	1451.0
27.5°	1239.4	1248.3	1258.4	1261.8	1283.1	1285.3	1290.9	1317.8	1370.4	1434.2	1519.3
30°	1295.4	1301.0	1312.2	1325.6	1346.9	1349.1	1361.4	1389.4	1427.5	1505.9	1618.9
32.5°	1380.5	1388.3	1383.8	1401.7	1433.1	1433.1	1475.6	1522.6	1569.7	1624.5	1774.6
35°	1543.9	1539.4	1535.0	1519.3	1538.3	1545.0	1604.4	1683.9	1814.9	1969.4	2117.1
37.5°	1746.6	1745.4	1721.9	1686.1	1685.0	1687.2	1741.0	1875.3	2083.6	2427.3	2586.3
40°	2057.8	2066.8	1983.9	1910.0	1868.6	1859.6	1902.2	2071.2	2351.1	2809.1	2917.7
42.5°	2369.1	2350.0	2282.8	2163.1	2093.6	2088.0	2095.9	2243.7	2610.9	3118.1	3157.2
45°	2644.5	2659.0	2553.8	2481.0	2353.4	2355.6	2320.9	2456.4	2868.4	3336.4	3343.1
47.5°	2925.5	2936.7	2805.7	2722.8	2600.8	2600.8	2546.0	2653.4	3097.9	3544.6	3531.2
50°	3225.5	3251.3	3086.7	2961.3	2849.4	2844.9	2828.1	2895.3	3324.1	3720.4	3666.7
52.5°	3630.8	3542.4	3386.8	3216.6	3105.7	3092.3	3076.6	3124.8	3583.8	3863.7	3754.0
55°	4049.6	3929.8	3770.8	3542.4	3333.0	3352.1	3312.9	3367.7	3822.3	4035.0	3868.2
57.5°	4303.7	4348.5	4262.3	4066.4	3721.5	3718.2	3570.4	3599.5	4036.1	4179.4	3989.1
60°	4571.3	4634.0	4692.2	4575.8	4412.3	4338.4	3958.9	3845.8	4276.8	4284.7	3975.7
62.5°	4711.2	4698.9	4952.0	4965.4	5091.9	5100.9	4730.3	4164.9	4419.0	4373.1	4022.7
65°	4461.6	4468.3	4884.8	5102.0	5537.5	5563.3	5427.8	4725.8	4538.8	4414.5	3969.0
67.5°	4038.4	4076.4	4388.8	4926.2	5854.3	5849.9	5556.5	5213.9	4570.2	4405.6	3890.6
70°	3302.8	3343.1	3663.3	4443.7	5784.9	5748.0	5501.7	5253.1	4543.3	4325.0	3499.8
72.5°	2533.6	2528.0	2859.4	3549.1	5274.4	5310.2	5220.7	4976.6	4414.5	3980.1	2867.3
75°	1785.7	1757.8	2052.2	2690.4	4349.6	4481.7	4787.4	4720.2	3927.5	3275.9	1916.7
77.5°	1172.2	1214.8	1449.9	1989.5	3420.4	3531.2	3953.3	3820.0	2906.5	2090.3	691.9
80°	744.5	782.6	972.9	1420.8	2486.6	2537.0	2881.8	2429.5	1552.9	689.7	96.3
82.5°	452.3	457.9	627.0	960.6	1715.2	1715.2	1814.9	1358.1	607.9	89.6	62.7
85°	240.7	254.1	338.1	518.4	864.3	929.3	822.9	518.4	117.6	49.3	38.1
87.5°	76.1	77.3	110.8	200.4	185.9	191.5	63.8	26.9	13.4	9.0	7.8
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°	1193.5	1193.5	1193.5	1193.5	1193.5	1193.5	1193.5	1193.5	1193.5	1193.5	1193.5
2.5°	1191.2	1192.4	1199.1	1202.4	1203.6	1200.2	1208.0	1219.2	1215.9	1228.2	1223.7
5°	1191.2	1196.8	1205.8	1204.7	1213.6	1218.1	1227.1	1238.3	1234.9	1252.8	1246.1
7.5°	1200.2	1209.2	1215.9	1229.3	1236.0	1233.8	1253.9	1262.9	1258.4	1271.9	1265.1
10°	1222.6	1232.7	1241.6	1256.2	1266.3	1261.8	1273.0	1278.6	1270.7	1284.2	1280.8
12.5°	1248.3	1259.5	1277.5	1287.5	1295.4	1287.5	1287.5	1284.2	1273.0	1285.3	1277.5
15°	1277.5	1292.0	1316.6	1327.8	1325.6	1312.2	1299.8	1276.3	1246.1	1251.7	1240.5
17.5°	1316.6	1334.6	1362.5	1369.3	1360.3	1327.8	1295.4	1252.8	1199.1	1185.6	1176.7
20°	1359.2	1379.3	1418.5	1415.2	1395.0	1337.9	1286.4	1220.4	1136.4	1098.3	1080.4
22.5°	1417.4	1437.6	1474.5	1454.3	1412.9	1337.9	1250.6	1158.8	1059.1	1003.2	990.8
25°	1481.2	1509.2	1524.9	1480.1	1408.4	1307.7	1202.4	1081.5	953.9	893.4	881.1
27.5°	1559.6	1578.6	1562.9	1483.5	1386.1	1257.3	1124.1	978.5	856.5	805.0	787.1
30°	1651.4	1653.6	1592.1	1476.7	1335.7	1185.6	1027.8	874.4	780.4	732.2	721.0
32.5°	1773.4	1751.0	1617.8	1445.4	1267.4	1087.1	920.3	805.0	726.6	666.2	650.5
35°	2091.4	1989.5	1674.9	1409.6	1184.5	977.4	827.4	742.3	676.2	607.9	595.6
37.5°	2503.4	2323.2	1775.7	1372.6	1090.5	876.6	765.8	705.3	649.4	573.2	556.4
40°	2812.4	2604.2	1931.3	1332.3	1004.3	805.0	732.2	690.8	629.2	559.8	541.9
42.5°	3048.6	2838.2	2091.4	1287.5	923.7	749.0	708.7	680.7	621.4	556.4	541.9
45°	3212.1	3001.6	2229.1	1234.9	820.7	700.9	690.8	663.9	606.8	544.1	529.6
47.5°	3377.8	3116.9	2306.4	1180.0	734.5	674.0	665.0	634.8	582.2	522.8	511.7
50°	3522.2	3247.9	2372.4	1124.1	666.2	641.5	635.9	595.6	545.2	489.3	474.7
52.5°	3563.7	3279.3	2345.5	1120.7	604.6	606.8	595.6	563.2	516.1	455.7	441.1
55°	3657.7	3366.6	2280.6	1017.7	545.2	553.1	550.8	534.0	490.4	434.4	423.2
57.5°	3698.0	3300.6	2186.6	756.8	483.7	490.4	509.4	509.4	471.3	421.0	410.9
60°	3692.4	3302.8	2018.6	529.6	423.2	441.1	468.0	468.0	437.8	388.5	376.2
62.5°	3649.9	3217.7	1739.8	404.2	385.1	410.9	442.2	422.1	395.2	340.4	331.4
65°	3579.3	2983.7	1205.8	354.9	363.9	394.1	409.8	385.1	352.7	303.4	297.8
67.5°	3297.2	2591.9	560.9	324.7	346.0	369.5	382.9	348.2	314.6	269.8	263.1
70°	2806.8	1896.6	241.8	301.2	324.7	341.5	354.9	319.1	283.3	244.1	241.8
72.5°	2041.0	1012.1	201.5	264.2	288.9	306.8	323.6	287.7	253.0	207.1	207.1
75°	983.0	167.9	173.5	219.4	241.8	277.7	285.5	235.1	195.9	157.9	154.5
77.5°	120.9	108.6	150.0	174.7	193.7	212.7	231.8	203.8	169.1	129.9	123.2
80°	76.1	76.1	118.7	122.0	132.1	152.3	170.2	159.0	133.2	75.0	69.4
82.5°	56.0	60.5	78.4	58.2	69.4	87.3	99.6	113.1	96.3	52.6	49.3
85°	35.8	39.2	36.9	29.1	38.1	58.2	79.5	78.4	64.9	39.2	36.9
87.5°	7.8	7.8	7.8	6.7	7.8	10.1	19.0	36.9	26.9	21.3	20.2
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)