

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: P509353

Luminaire Tested: **VERD-CA2-80-727-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509353
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-CA2-80-727-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1100mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9894 lumens
Efficiency: N/A
Efficacy: 120.1 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

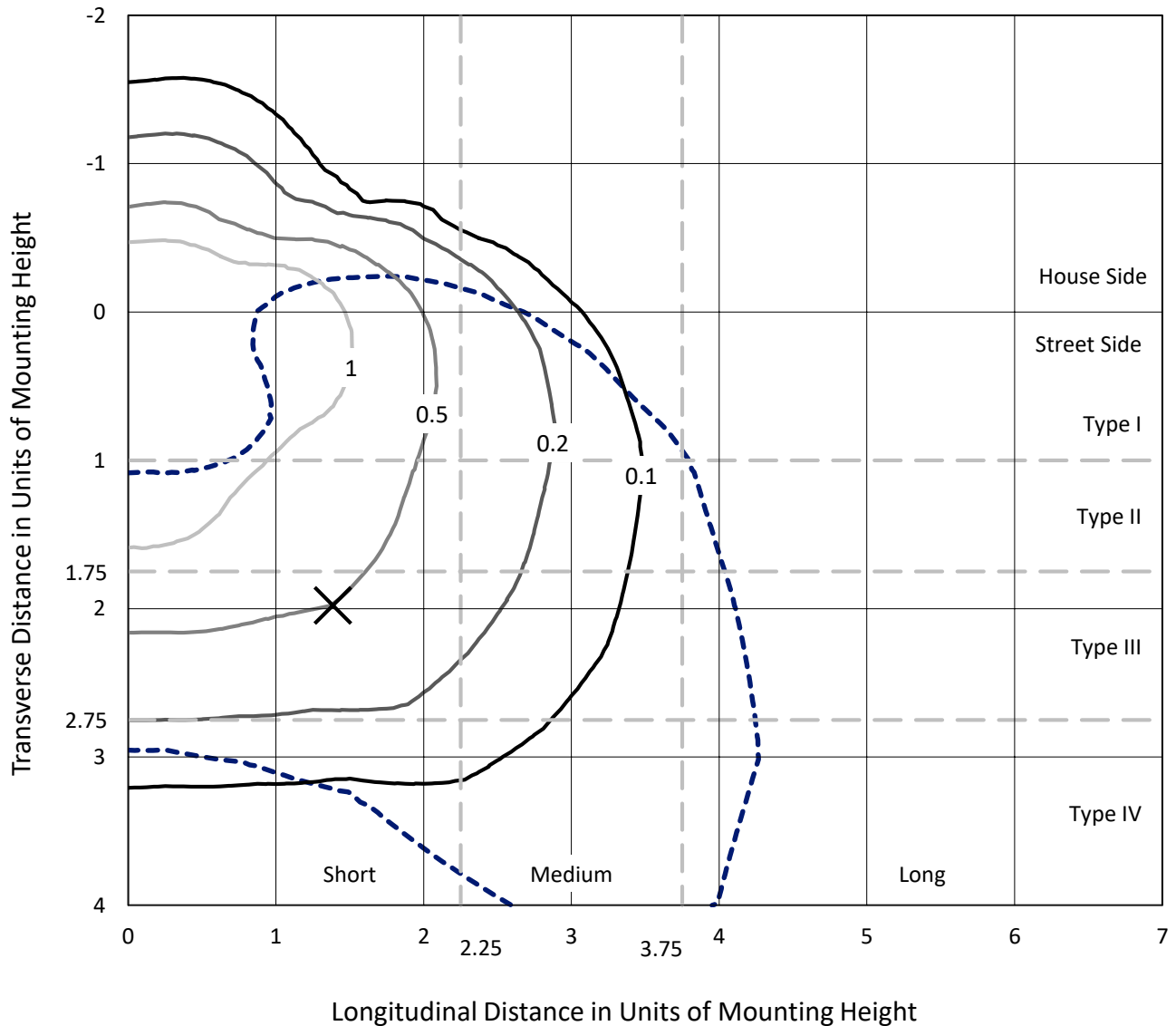
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

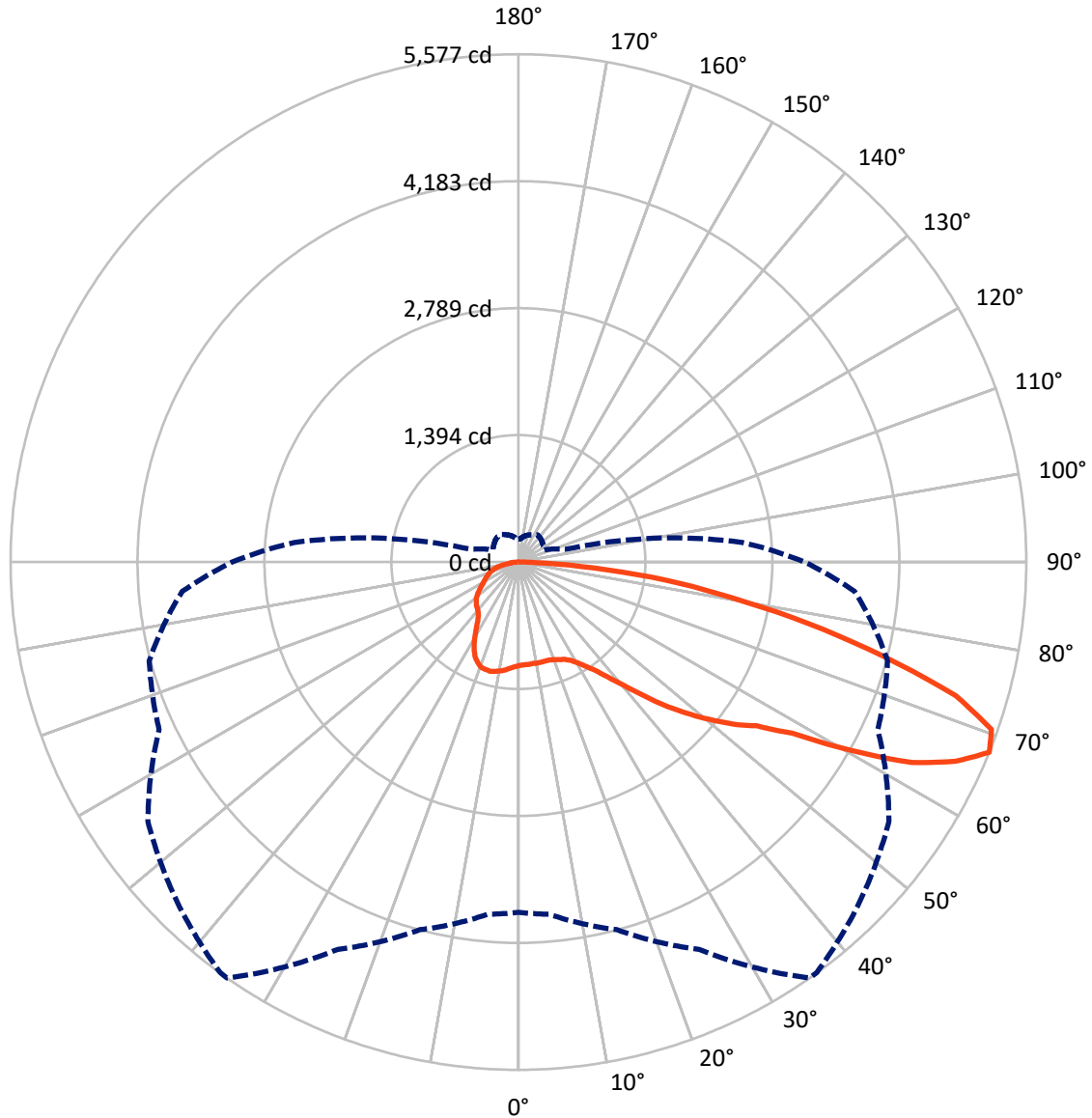
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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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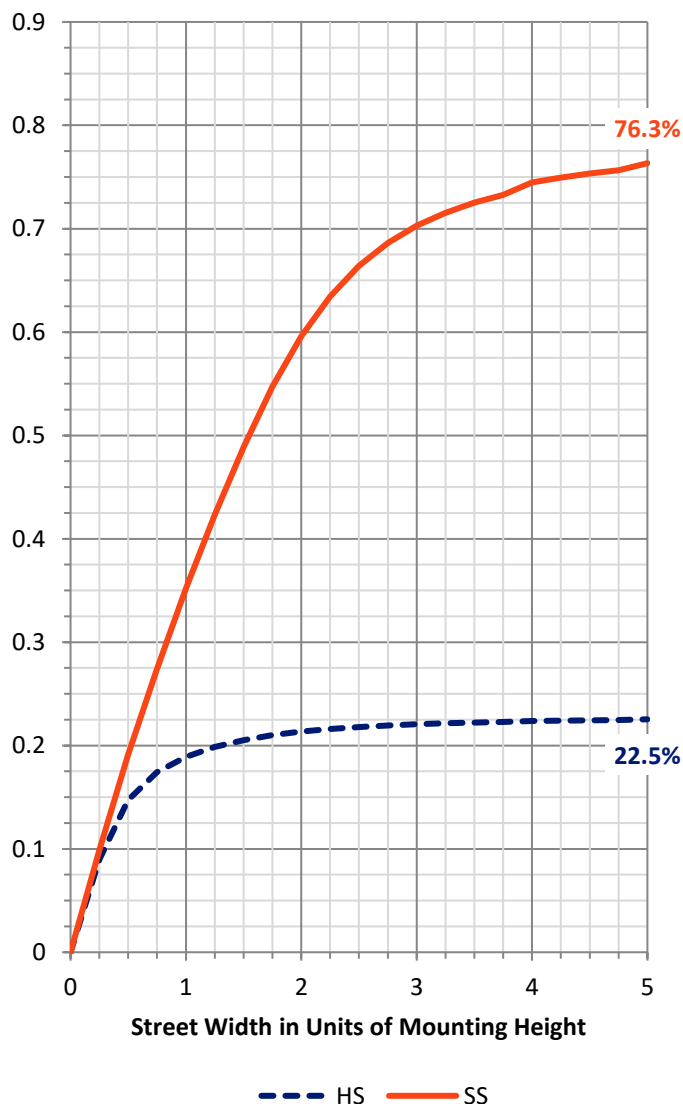
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2254.1	0.0	2254.1
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	7639.9	0.0	7639.9
	% Fixture	77.2	0.0	77.2
Total	Lumens	9894.0	0.0	9894.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.0	1.1
10°-20°	337.5	3.4
20°-30°	563.3	5.7
30°-40°	866.6	8.8
40°-50°	1428.2	14.4
50°-60°	2039.9	20.6
60°-70°	2539.8	25.7
70°-80°	1714.0	17.3
80°-90°	294.6	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°	9894.0	100.0
0°-180°	9894.0	100.0

Coefficient of Utilization



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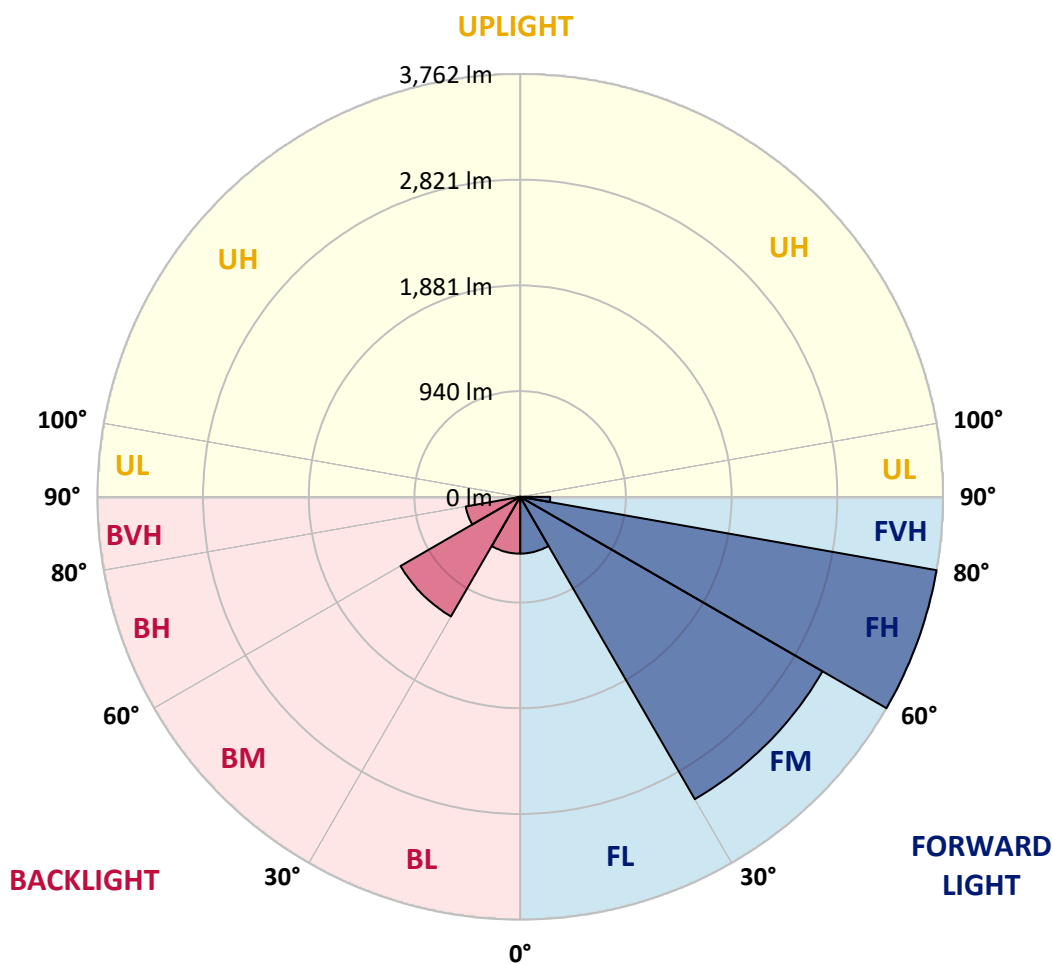
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	504.9	5.1			
FM	(30°-60°)	3105.8	31.4			
FH	(60°-80°)	3761.8	38.0			G2/5000
FVH	(80°-90°)	267.4	2.7			G3/500
BL	(0°-30°)	505.9	5.1	B2/1000		
BM	(30°-60°)	1228.9	12.4	B2/2500		
BH	(60°-80°)	492.1	5.0	B1/500		G1/500
BVH	(80°-90°)	27.2	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°	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9
2.5°	1120.9	1131.6	1130.5	1128.4	1129.5	1130.5	1125.2	1122.0	1126.3	1127.3	1132.7
5°	1119.9	1128.4	1127.3	1127.3	1130.5	1129.5	1120.9	1114.5	1122.0	1127.3	1132.7
7.5°	1118.8	1126.3	1126.3	1123.1	1125.2	1125.2	1120.9	1125.2	1125.2	1133.7	1140.1
10°	1117.7	1124.1	1124.1	1125.2	1128.4	1129.5	1129.5	1132.7	1144.4	1147.6	1160.4
12.5°	1105.0	1110.3	1114.5	1120.9	1127.3	1129.5	1134.8	1144.4	1159.3	1166.8	1181.7
15°	1094.3	1101.8	1109.2	1115.6	1125.2	1127.3	1139.1	1155.1	1171.1	1187.1	1209.5
17.5°	1098.6	1108.2	1116.7	1122.0	1129.5	1131.6	1143.3	1164.7	1190.3	1213.7	1244.7
20°	1108.2	1118.8	1127.3	1133.7	1143.3	1145.5	1155.1	1175.3	1208.4	1244.7	1279.9
22.5°	1131.6	1139.1	1148.7	1151.9	1162.5	1164.7	1171.1	1191.3	1234.0	1279.9	1324.7
25°	1152.9	1161.5	1168.9	1172.1	1183.9	1186.0	1197.7	1214.8	1264.9	1317.2	1382.3
27.5°	1180.7	1189.2	1198.8	1202.0	1222.3	1224.4	1229.7	1255.3	1305.5	1366.3	1447.3
30°	1234.0	1239.3	1250.0	1262.8	1283.1	1285.2	1296.9	1323.6	1359.9	1434.5	1542.2
32.5°	1315.1	1322.5	1318.3	1335.3	1365.2	1365.2	1405.7	1450.5	1495.3	1547.6	1690.5
35°	1470.8	1466.5	1462.2	1447.3	1465.4	1471.8	1528.4	1604.1	1728.9	1876.1	2016.9
37.5°	1663.8	1662.8	1640.4	1606.2	1605.2	1607.3	1658.5	1786.5	1984.9	2312.3	2463.7
40°	1960.3	1968.9	1889.9	1819.5	1780.1	1771.5	1812.1	1973.1	2239.8	2676.0	2779.4
42.5°	2256.8	2238.7	2174.7	2060.6	1994.5	1989.1	1996.6	2137.4	2487.2	2970.4	3007.7
45°	2519.2	2533.1	2432.8	2363.5	2241.9	2244.0	2211.0	2340.0	2732.5	3178.3	3184.7
47.5°	2786.9	2797.6	2672.8	2593.9	2477.6	2477.6	2425.3	2527.7	2951.2	3376.7	3363.9
50°	3072.7	3097.3	2940.5	2821.0	2714.4	2710.1	2694.1	2758.1	3166.6	3544.2	3493.0
52.5°	3458.8	3374.6	3226.3	3064.2	2958.6	2945.8	2930.9	2976.8	3414.0	3680.7	3576.2
55°	3857.7	3743.6	3592.2	3374.6	3175.1	3193.3	3155.9	3208.2	3641.2	3843.9	3684.9
57.5°	4099.8	4142.5	4060.4	3873.7	3545.2	3542.0	3401.2	3429.0	3844.9	3981.4	3800.1
60°	4354.7	4414.5	4469.9	4359.0	4203.3	4132.9	3771.3	3663.6	4074.2	4081.7	3787.3
62.5°	4488.1	4476.3	4717.4	4730.2	4850.7	4859.2	4506.2	3967.6	4209.7	4166.0	3832.1
65°	4250.2	4256.6	4653.4	4860.3	5275.2	5299.7	5170.7	4501.9	4323.8	4205.4	3780.9
67.5°	3847.1	3883.3	4180.9	4692.8	5577.0	5572.7	5293.3	4966.9	4353.7	4196.9	3706.3
70°	3146.3	3184.7	3489.8	4233.2	5510.9	5475.7	5241.1	5004.3	4328.1	4120.1	3334.1
72.5°	2413.6	2408.3	2724.0	3381.0	5024.5	5058.7	4973.3	4740.8	4205.4	3791.6	2731.4
75°	1701.2	1674.5	1955.0	2562.9	4143.6	4269.4	4560.6	4496.6	3741.5	3120.7	1825.9
77.5°	1116.7	1157.2	1381.2	1895.3	3258.3	3363.9	3766.0	3639.1	2768.8	1991.3	659.1
80°	709.3	745.5	926.8	1353.5	2368.8	2416.8	2745.3	2314.4	1479.3	657.0	91.7
82.5°	430.9	436.2	597.3	915.1	1634.0	1634.0	1728.9	1293.7	579.1	85.3	59.7
85°	229.3	242.1	322.1	493.8	823.4	885.2	783.9	493.8	112.0	46.9	36.3
87.5°	72.5	73.6	105.6	190.9	177.0	182.4	60.8	25.6	12.8	8.5	7.5
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°	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9
2.5°	1134.8	1135.9	1142.3	1145.5	1146.5	1143.3	1150.8	1161.5	1158.3	1170.0	1165.7
5°	1134.8	1140.1	1148.7	1147.6	1156.1	1160.4	1168.9	1179.6	1176.4	1193.5	1187.1
7.5°	1143.3	1151.9	1158.3	1171.1	1177.5	1175.3	1194.5	1203.1	1198.8	1211.6	1205.2
10°	1164.7	1174.3	1182.8	1196.7	1206.3	1202.0	1212.7	1218.0	1210.5	1223.3	1220.1
12.5°	1189.2	1199.9	1216.9	1226.5	1234.0	1226.5	1226.5	1223.3	1212.7	1224.4	1216.9
15°	1216.9	1230.8	1254.3	1264.9	1262.8	1250.0	1238.3	1215.9	1187.1	1192.4	1181.7
17.5°	1254.3	1271.3	1298.0	1304.4	1295.9	1264.9	1234.0	1193.5	1142.3	1129.5	1120.9
20°	1294.8	1314.0	1351.3	1348.1	1328.9	1274.5	1225.5	1162.5	1082.6	1046.3	1029.2
22.5°	1350.3	1369.5	1404.7	1385.5	1346.0	1274.5	1191.3	1103.9	1009.0	955.6	943.9
25°	1411.1	1437.7	1452.6	1410.0	1341.7	1245.7	1145.5	1030.3	908.7	851.1	839.4
27.5°	1485.7	1503.8	1488.9	1413.2	1320.4	1197.7	1070.8	932.2	815.9	766.9	749.8
30°	1573.2	1575.3	1516.6	1406.8	1272.4	1129.5	979.1	833.0	743.4	697.5	686.9
32.5°	1689.4	1668.1	1541.2	1376.9	1207.3	1035.6	876.7	766.9	692.2	634.6	619.7
35°	1992.3	1895.3	1595.6	1342.8	1128.4	931.1	788.2	707.1	644.2	579.1	567.4
37.5°	2384.8	2213.1	1691.6	1307.6	1038.8	835.1	729.5	671.9	618.6	546.1	530.1
40°	2679.2	2480.8	1839.8	1269.2	956.7	766.9	697.5	658.1	599.4	533.3	516.2
42.5°	2904.2	2703.7	1992.3	1226.5	879.9	713.5	675.1	648.5	591.9	530.1	516.2
45°	3059.9	2859.4	2123.5	1176.4	781.8	667.7	658.1	632.5	578.1	518.3	504.5
47.5°	3217.8	2969.3	2197.1	1124.1	699.7	642.1	633.5	604.7	554.6	498.1	487.4
50°	3355.4	3094.1	2260.0	1070.8	634.6	611.1	605.8	567.4	519.4	466.1	452.2
52.5°	3394.8	3123.9	2234.4	1067.6	575.9	578.1	567.4	536.5	491.7	434.1	420.2
55°	3484.4	3207.1	2172.6	969.5	519.4	526.9	524.7	508.7	467.2	413.8	403.2
57.5°	3522.8	3144.2	2083.0	721.0	460.8	467.2	485.3	485.3	449.0	401.0	391.4
60°	3517.5	3146.3	1923.0	504.5	403.2	420.2	445.8	445.8	417.0	370.1	358.4
62.5°	3477.0	3065.3	1657.4	385.0	366.9	391.4	421.3	402.1	376.5	324.2	315.7
65°	3409.8	2842.4	1148.7	338.1	346.6	375.4	390.4	366.9	336.0	289.0	283.7
67.5°	3141.0	2469.1	534.3	309.3	329.6	352.0	364.8	331.7	299.7	257.0	250.6
70°	2673.9	1806.7	230.4	286.9	309.3	325.3	338.1	304.0	269.8	232.5	230.4
72.5°	1944.3	964.2	192.0	251.7	275.2	292.2	308.2	274.1	241.0	197.3	197.3
75°	936.4	160.0	165.3	209.0	230.4	264.5	272.0	224.0	186.6	150.4	147.2
77.5°	115.2	103.5	142.9	166.4	184.5	202.6	220.8	194.1	161.0	123.7	117.3
80°	72.5	72.5	113.1	116.3	125.9	145.1	162.1	151.5	126.9	71.5	66.1
82.5°	53.3	57.6	74.7	55.5	66.1	83.2	94.9	107.7	91.7	50.1	46.9
85°	34.1	37.3	35.2	27.7	36.3	55.5	75.7	74.7	61.9	37.3	35.2
87.5°	7.5	7.5	7.5	6.4	7.5	9.6	18.1	35.2	25.6	20.3	19.2
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)