

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: P509329

Luminaire Tested: **VERD-CA2-70-750-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509329
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-CA2-70-750-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 980mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10772 lumens
Efficiency: N/A
Efficacy: 146.4 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

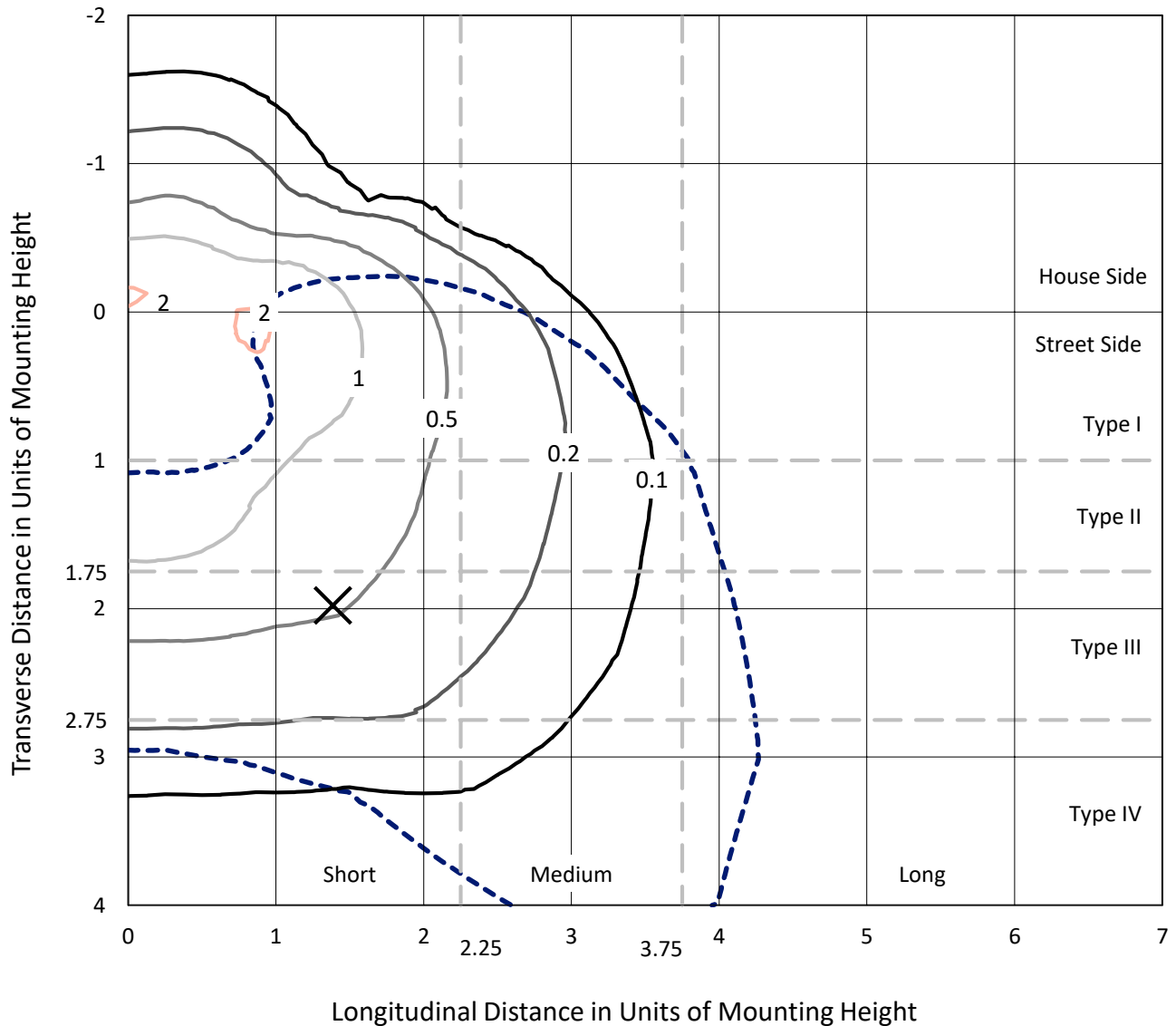
Input Watts (W): 73.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509329
 CATALOG NUMBER: VERD-CA2-70-750-U-T4

Iso-Footcandle Lines of Horizontal Illumination

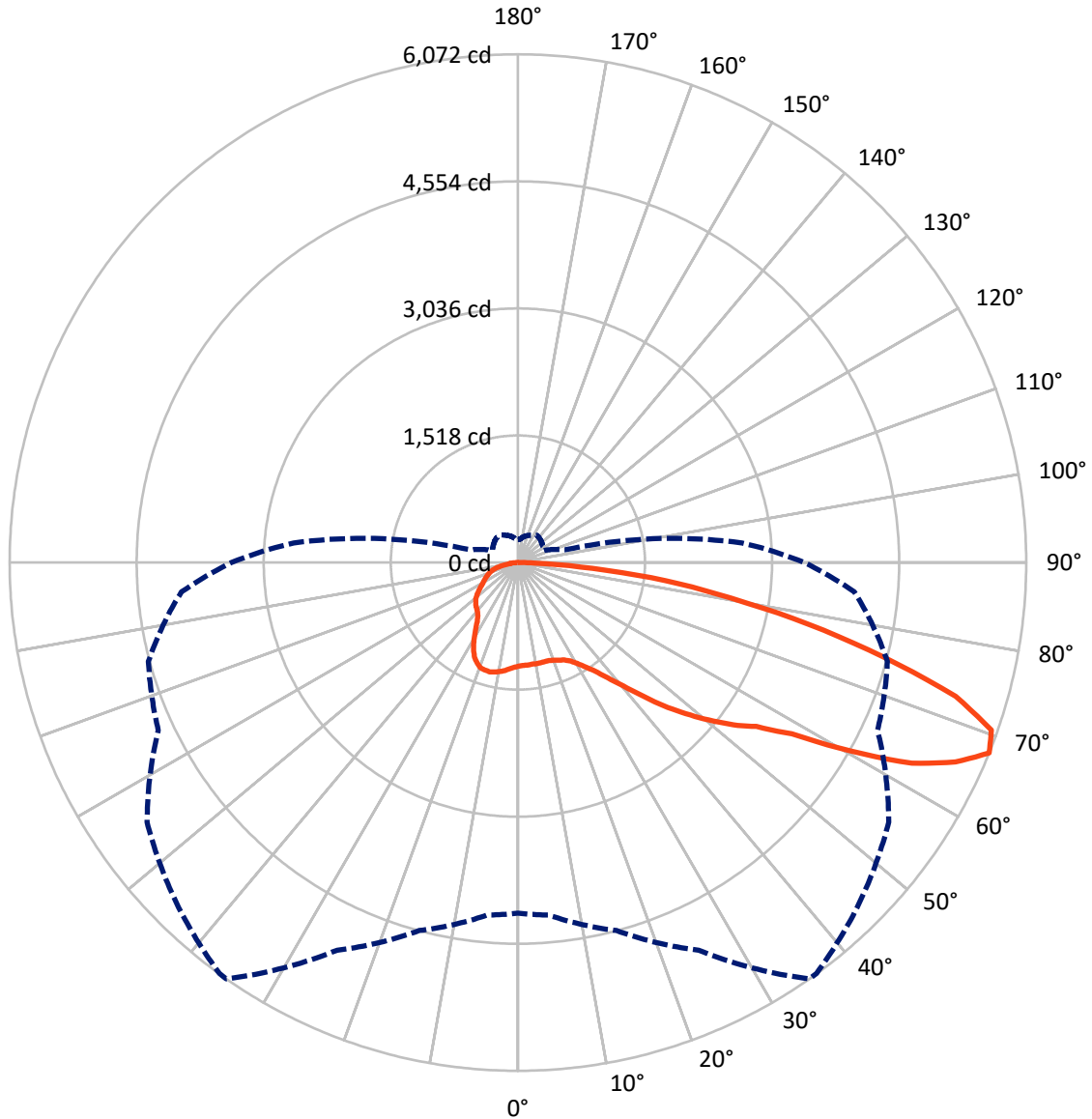
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P509329
CATALOG NUMBER: VERD-CA2-70-750-U-T4

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509329

CATALOG NUMBER: VERD-CA2-70-750-U-T4

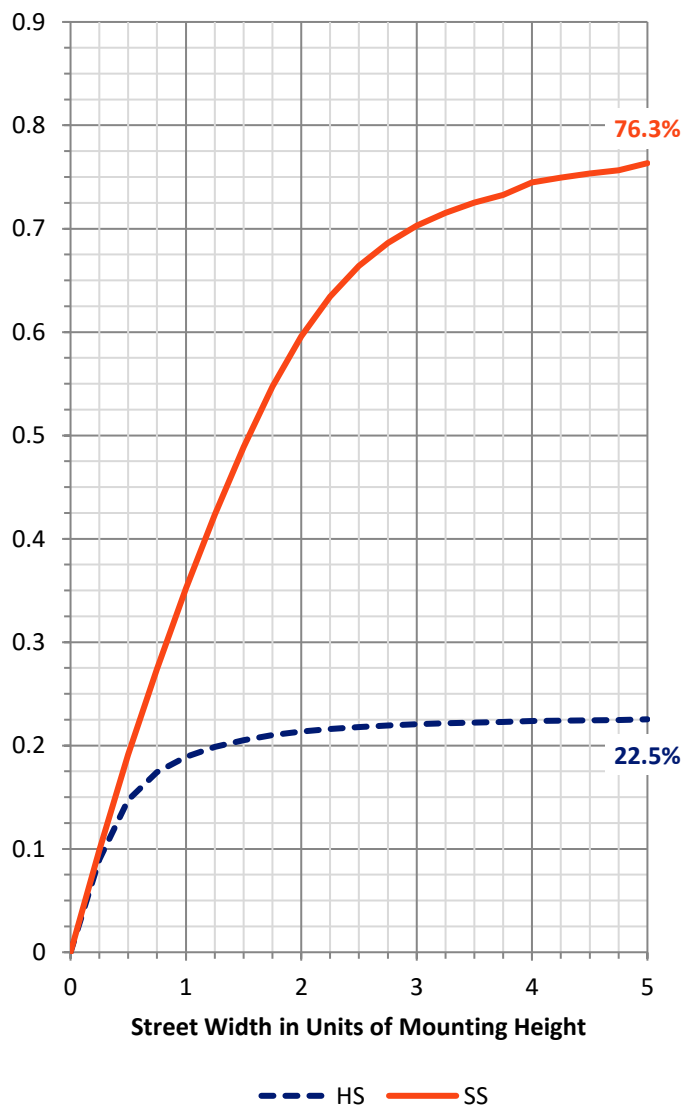
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2454.1	0.0	2454.1
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	8317.9	0.0	8317.9
	% Fixture	77.2	0.0	77.2
Total	Lumens	10772.0	0.0	10772.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.8	1.1
10°-20°	367.4	3.4
20°-30°	613.3	5.7
30°-40°	943.6	8.8
40°-50°	1554.9	14.4
50°-60°	2221.0	20.6
60°-70°	2765.2	25.7
70°-80°	1866.1	17.3
80°-90°	320.8	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°	10772.0	100.0
0°-180°	10772.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509329

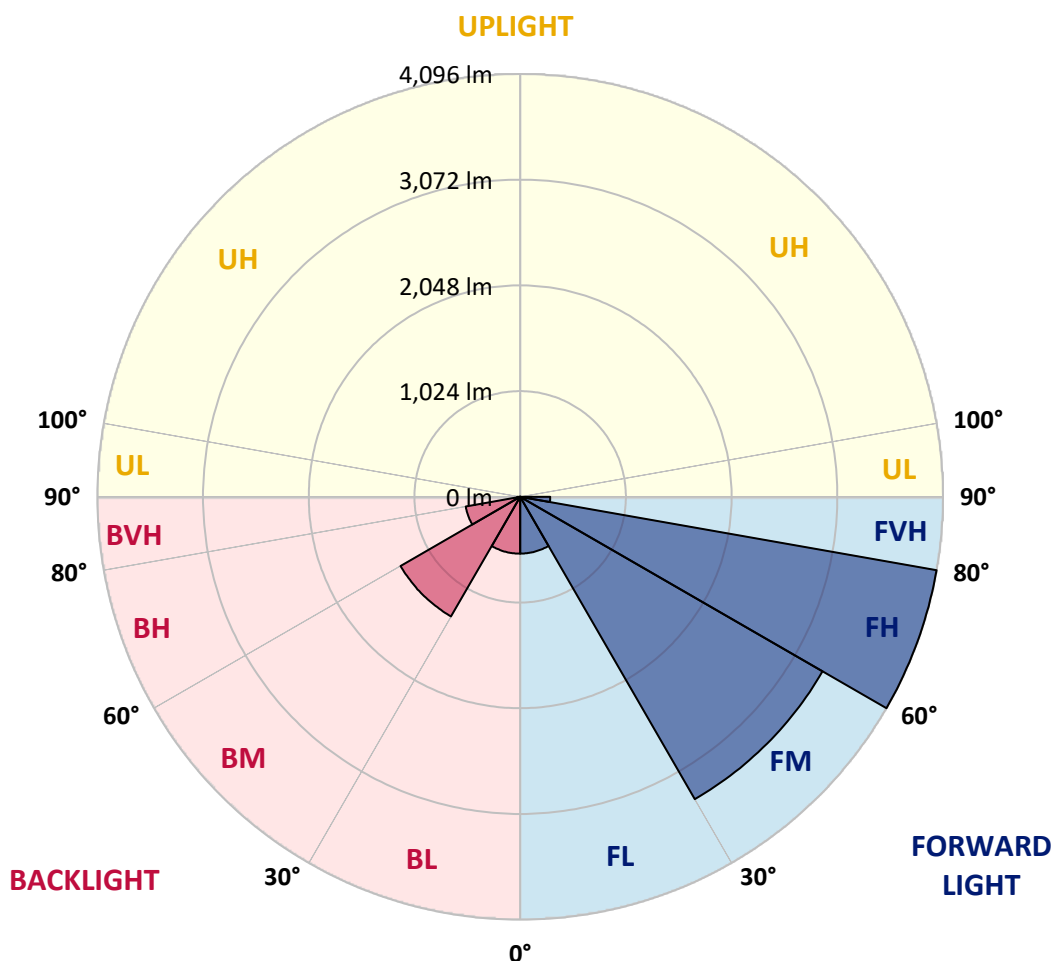
CATALOG NUMBER: VERD-CA2-70-750-U-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	549.7	5.1			
FM (30°-60°)	3381.4	31.4			
FH (60°-80°)	4095.6	38.0			G2/5000
FVH (80°-90°)	291.2	2.7			G3/500
BL (0°-30°)	550.8	5.1	B2/1000		
BM (30°-60°)	1338.0	12.4	B2/2500		
BH (60°-80°)	535.7	5.0	B2/1000		G2/1000
BVH (80°-90°)	29.6	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: P509329

CATALOG NUMBER: VERD-CA2-70-750-U-T4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1237.8	1237.8	1237.8	1237.8	1237.8	1237.8	1237.8	1237.8	1237.8	1237.8	1237.8
2.5°	1220.4	1232.0	1230.9	1228.6	1229.7	1230.9	1225.1	1221.6	1226.2	1227.4	1233.2
5°	1219.3	1228.6	1227.4	1227.4	1230.9	1229.7	1220.4	1213.5	1221.6	1227.4	1233.2
7.5°	1218.1	1226.2	1226.2	1222.7	1225.1	1225.1	1220.4	1225.1	1225.1	1234.4	1241.3
10°	1216.9	1223.9	1223.9	1225.1	1228.6	1229.7	1229.7	1233.2	1246.0	1249.5	1263.4
12.5°	1203.0	1208.8	1213.5	1220.4	1227.4	1229.7	1235.5	1246.0	1262.2	1270.4	1286.6
15°	1191.4	1199.5	1207.6	1214.6	1225.1	1227.4	1240.2	1257.6	1275.0	1292.4	1316.8
17.5°	1196.0	1206.5	1215.8	1221.6	1229.7	1232.0	1244.8	1268.0	1295.9	1321.4	1355.1
20°	1206.5	1218.1	1227.4	1234.4	1244.8	1247.1	1257.6	1279.6	1315.6	1355.1	1393.4
22.5°	1232.0	1240.2	1250.6	1254.1	1265.7	1268.0	1275.0	1297.1	1343.5	1393.4	1442.2
25°	1255.3	1264.5	1272.7	1276.2	1288.9	1291.3	1304.0	1322.6	1377.2	1434.1	1504.9
27.5°	1285.5	1294.7	1305.2	1308.7	1330.7	1333.1	1338.9	1366.7	1421.3	1487.5	1575.8
30°	1343.5	1349.3	1360.9	1374.9	1396.9	1399.2	1412.0	1441.1	1480.5	1561.8	1679.1
32.5°	1431.8	1439.9	1435.2	1453.8	1486.3	1486.3	1530.5	1579.2	1628.0	1684.9	1840.5
35°	1601.3	1596.7	1592.0	1575.8	1595.5	1602.5	1664.0	1746.4	1882.3	2042.6	2195.8
37.5°	1811.5	1810.3	1785.9	1748.8	1747.6	1749.9	1805.7	1945.0	2161.0	2517.5	2682.4
40°	2134.3	2143.6	2057.6	1981.0	1938.0	1928.8	1972.9	2148.2	2438.5	2913.5	3026.1
42.5°	2457.1	2437.4	2367.7	2243.4	2171.4	2165.6	2173.8	2327.0	2707.9	3233.9	3274.6
45°	2742.8	2757.9	2648.7	2573.2	2440.8	2443.2	2407.2	2547.7	2975.0	3460.4	3467.3
47.5°	3034.2	3045.8	2910.0	2824.0	2697.5	2697.5	2640.6	2752.0	3213.0	3676.4	3662.4
50°	3345.4	3372.1	3201.4	3071.4	2955.3	2950.6	2933.2	3002.9	3447.6	3858.7	3802.9
52.5°	3765.8	3674.0	3512.6	3336.1	3221.2	3207.2	3191.0	3240.9	3717.0	4007.3	3893.5
55°	4200.1	4075.8	3910.9	3674.0	3456.9	3476.6	3436.0	3492.9	3964.3	4185.0	4012.0
57.5°	4463.7	4510.1	4420.7	4217.5	3859.8	3856.4	3703.1	3733.3	4186.1	4334.8	4137.4
60°	4741.2	4806.2	4866.6	4745.8	4576.3	4499.7	4106.0	3988.7	4435.8	4443.9	4123.4
62.5°	4886.3	4873.6	5136.0	5149.9	5281.1	5290.4	4906.1	4319.7	4583.3	4535.7	4172.2
65°	4627.4	4634.4	5066.3	5291.6	5743.3	5770.0	5629.5	4901.4	4707.5	4578.6	4116.5
67.5°	4188.5	4227.9	4551.9	5109.3	6071.9	6067.3	5763.0	5407.7	4740.0	4569.3	4035.2
70°	3425.5	3467.3	3799.5	4608.8	5999.9	5961.6	5706.1	5448.4	4712.2	4485.7	3629.9
72.5°	2627.8	2622.0	2965.7	3681.0	5470.4	5507.6	5414.7	5161.5	4578.6	4128.1	2973.8
75°	1852.1	1823.1	2128.5	2790.4	4511.3	4648.3	4965.3	4895.6	4073.5	3397.7	1988.0
77.5°	1215.8	1259.9	1503.8	2063.5	3547.5	3662.4	4100.2	3962.0	3014.5	2168.0	717.6
80°	772.2	811.7	1009.1	1473.6	2579.0	2631.3	2988.9	2519.8	1610.6	715.3	99.9
82.5°	469.1	474.9	650.3	996.3	1779.0	1779.0	1882.3	1408.5	630.5	92.9	65.0
85°	249.7	263.6	350.7	537.6	896.4	963.8	853.5	537.6	121.9	51.1	39.5
87.5°	79.0	80.1	115.0	207.9	192.8	198.6	66.2	27.9	13.9	9.3	8.1
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: P509329
 CATALOG NUMBER: VERD-CA2-70-750-U-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1237.8	1237.8	1237.8	1237.8	1237.8	1237.8	1237.8	1237.8	1237.8	1237.8	1237.8
2.5°	1235.5	1236.7	1243.6	1247.1	1248.3	1244.8	1252.9	1264.5	1261.1	1273.8	1269.2
5°	1235.5	1241.3	1250.6	1249.5	1258.7	1263.4	1272.7	1284.3	1280.8	1299.4	1292.4
7.5°	1244.8	1254.1	1261.1	1275.0	1282.0	1279.6	1300.5	1309.8	1305.2	1319.1	1312.2
10°	1268.0	1278.5	1287.8	1302.9	1313.3	1308.7	1320.3	1326.1	1318.0	1331.9	1328.4
12.5°	1294.7	1306.4	1324.9	1335.4	1343.5	1335.4	1335.4	1331.9	1320.3	1333.1	1324.9
15°	1324.9	1340.0	1365.6	1377.2	1374.9	1360.9	1348.2	1323.8	1292.4	1298.2	1286.6
17.5°	1365.6	1384.2	1413.2	1420.1	1410.9	1377.2	1343.5	1299.4	1243.6	1229.7	1220.4
20°	1409.7	1430.6	1471.2	1467.8	1446.9	1387.6	1334.2	1265.7	1178.6	1139.1	1120.6
22.5°	1470.1	1491.0	1529.3	1508.4	1465.4	1387.6	1297.1	1201.8	1098.5	1040.4	1027.7
25°	1536.3	1565.3	1581.6	1535.1	1460.8	1356.3	1247.1	1121.7	989.3	926.6	913.9
27.5°	1617.6	1637.3	1621.0	1538.6	1437.6	1304.0	1165.8	1014.9	888.3	834.9	816.3
30°	1712.8	1715.1	1651.2	1531.6	1385.3	1229.7	1066.0	906.9	809.4	759.4	747.8
32.5°	1839.3	1816.1	1677.9	1499.1	1314.5	1127.5	954.5	834.9	753.6	690.9	674.7
35°	2169.1	2063.5	1737.2	1462.0	1228.6	1013.7	858.1	769.9	701.4	630.5	617.8
37.5°	2596.4	2409.5	1841.7	1423.6	1131.0	909.2	794.3	731.6	673.5	594.5	577.1
40°	2916.9	2701.0	2003.1	1381.8	1041.6	834.9	759.4	716.5	652.6	580.6	562.0
42.5°	3162.0	2943.6	2169.1	1335.4	958.0	776.8	735.0	706.0	644.5	577.1	562.0
45°	3331.5	3113.2	2312.0	1280.8	851.2	726.9	716.5	688.6	629.4	564.3	549.2
47.5°	3503.3	3232.8	2392.1	1223.9	761.7	699.0	689.8	658.4	603.8	542.3	530.7
50°	3653.1	3368.6	2460.6	1165.8	690.9	665.4	659.6	617.8	565.5	507.4	492.3
52.5°	3696.1	3401.2	2432.7	1162.4	627.0	629.4	617.8	584.1	535.3	472.6	457.5
55°	3793.6	3491.7	2365.4	1055.5	565.5	573.6	571.3	553.9	508.6	450.5	438.9
57.5°	3835.4	3423.2	2267.8	785.0	501.6	508.6	528.3	528.3	488.9	436.6	426.2
60°	3829.6	3425.5	2093.6	549.2	438.9	457.5	485.4	485.4	454.0	402.9	390.2
62.5°	3785.5	3337.3	1804.5	419.2	399.5	426.2	458.7	437.8	409.9	353.0	343.7
65°	3712.4	3094.6	1250.6	368.1	377.4	408.7	425.0	399.5	365.8	314.7	308.9
67.5°	3419.7	2688.2	581.8	336.7	358.8	383.2	397.1	361.1	326.3	279.8	272.9
70°	2911.1	1967.1	250.8	312.4	336.7	354.2	368.1	330.9	293.8	253.1	250.8
72.5°	2116.9	1049.7	209.0	274.0	299.6	318.2	335.6	298.4	262.4	214.8	214.8
75°	1019.5	174.2	180.0	227.6	250.8	288.0	296.1	243.9	203.2	163.7	160.2
77.5°	125.4	112.6	155.6	181.1	200.9	220.6	240.4	211.3	175.3	134.7	127.7
80°	79.0	79.0	123.1	126.6	137.0	157.9	176.5	164.9	138.2	77.8	72.0
82.5°	58.1	62.7	81.3	60.4	72.0	90.6	103.3	117.3	99.9	54.6	51.1
85°	37.2	40.6	38.3	30.2	39.5	60.4	82.4	81.3	67.3	40.6	38.3
87.5°	8.1	8.1	8.1	7.0	8.1	10.5	19.7	38.3	27.9	22.1	20.9
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)