

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: P509294

Luminaire Tested: **VERD-CA2-70-722-U-T3-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509294
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-70-722-U-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 980mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8029 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

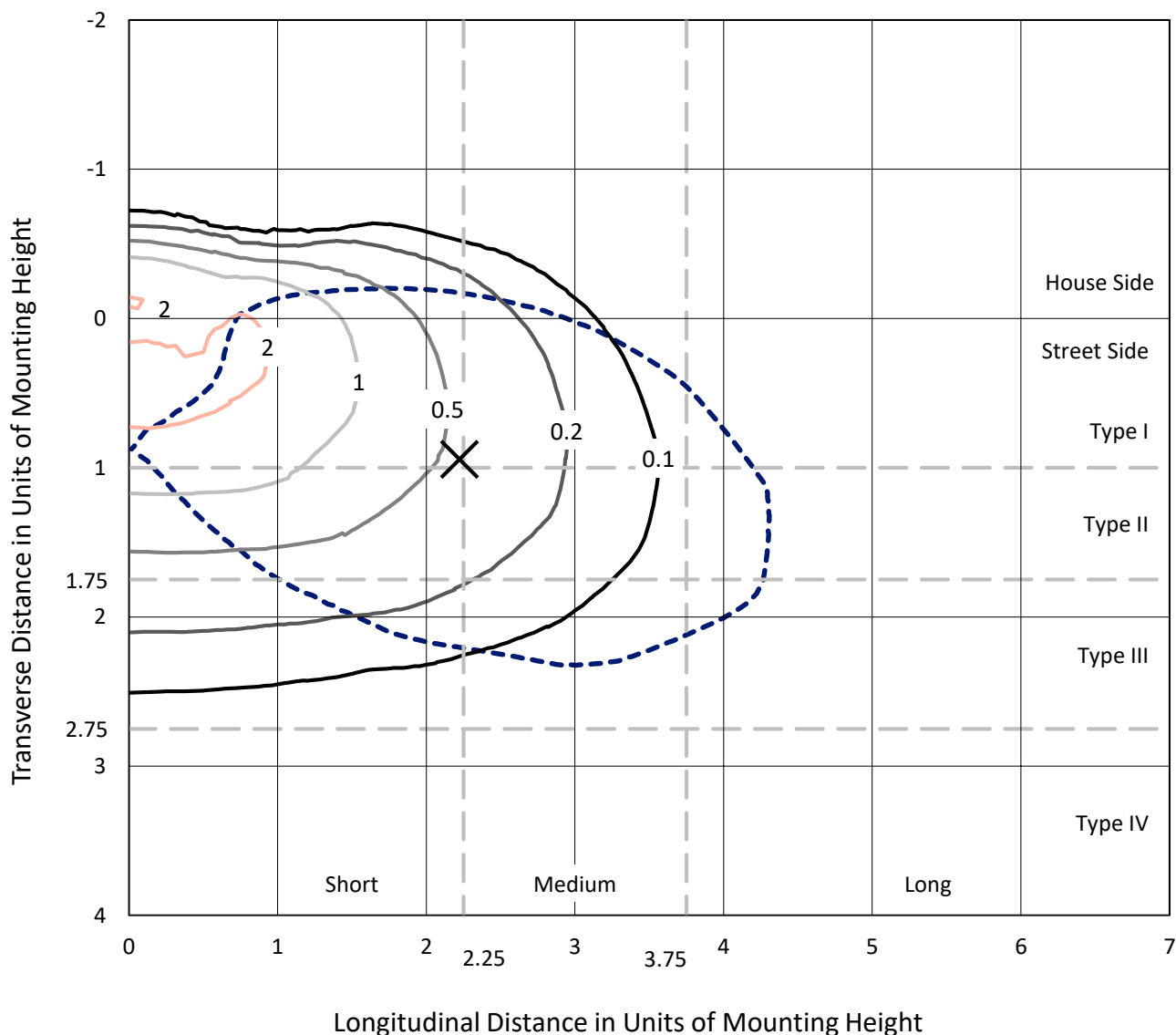
Input Watts (W): 73.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509294
 CATALOG NUMBER: VERD-CA2-70-722-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

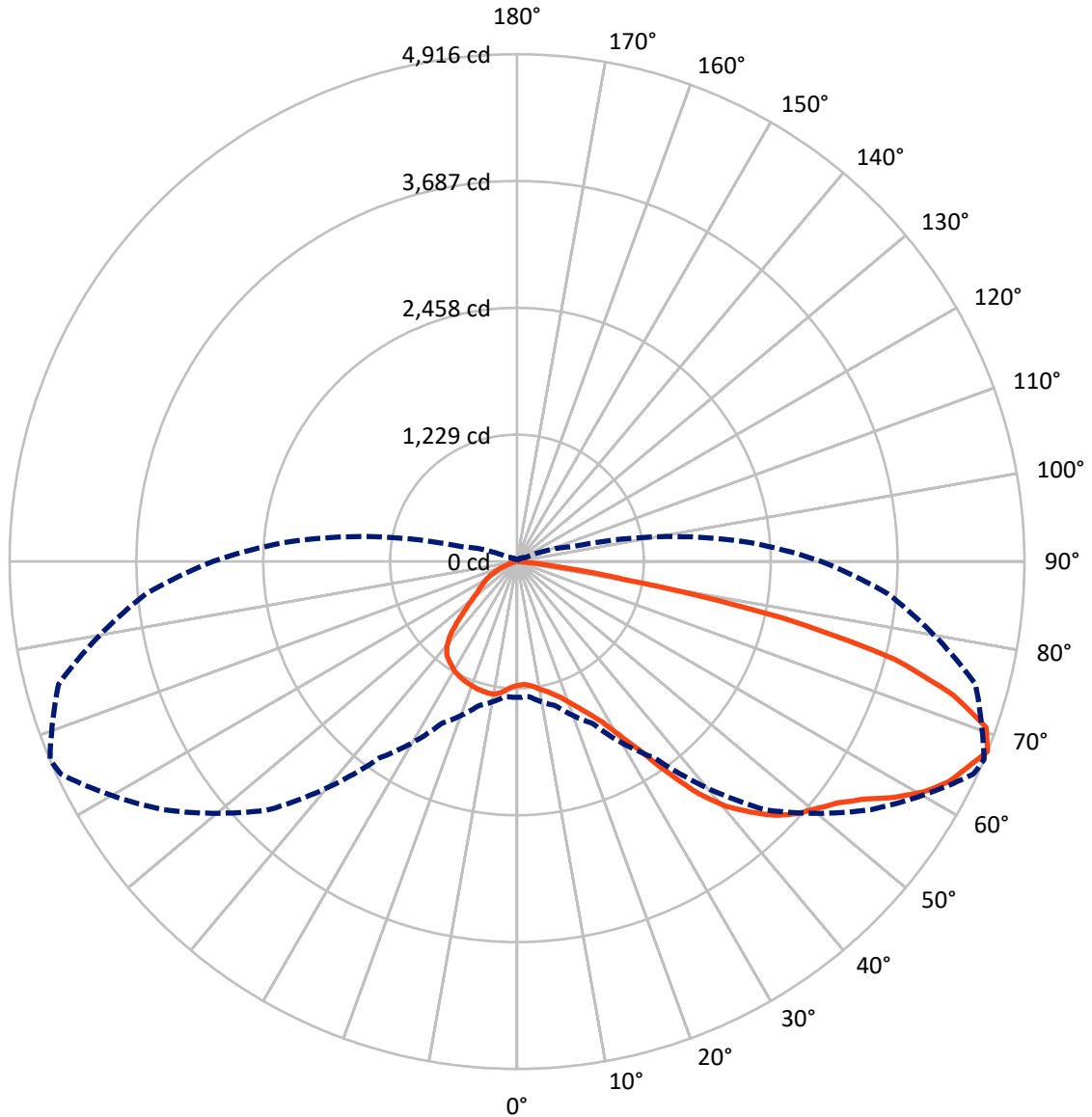
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P509294
CATALOG NUMBER: VERD-CA2-70-722-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P509294

CATALOG NUMBER: VERD-CA2-70-722-U-T3-HSS

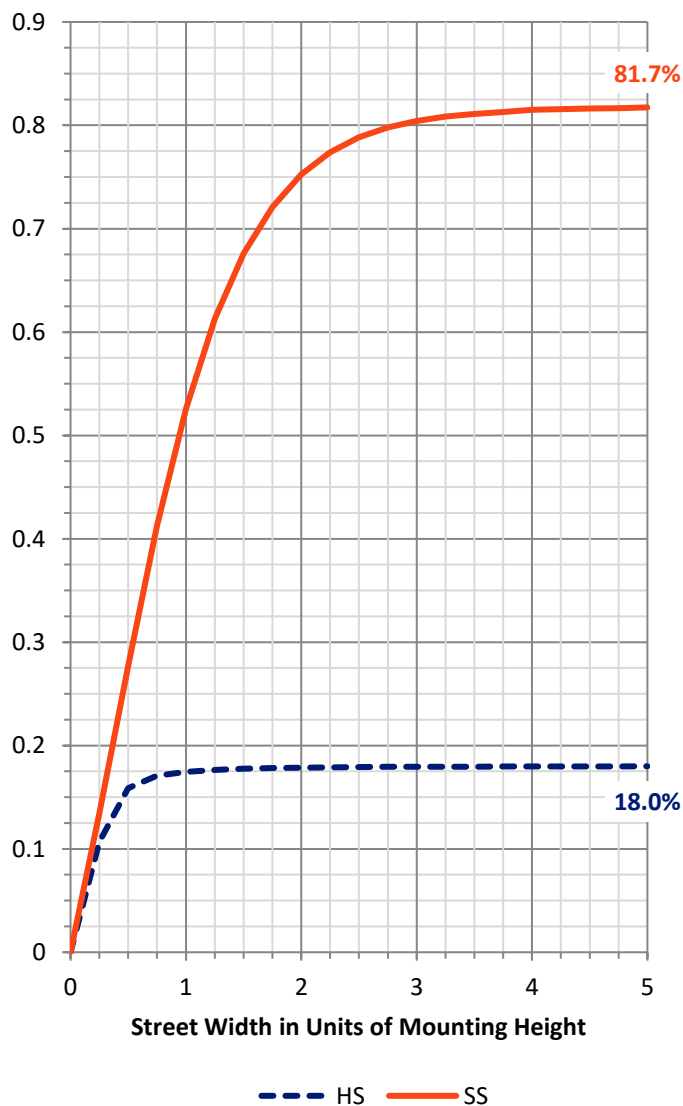
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1462.9	0.0	1462.9
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	6566.1	0.0	6566.1
	% Fixture	81.8	0.0	81.8
Total	Lumens	8029.0	0.0	8029.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.1	1.5
10°-20°	376.2	4.7
20°-30°	641.9	8.0
30°-40°	999.1	12.4
40°-50°	1410.4	17.6
50°-60°	1698.7	21.2
60°-70°	1755.4	21.9
70°-80°	967.0	12.0
80°-90°	60.3	0.8
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°	8029.0	100.0
0°-180°	8029.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509294

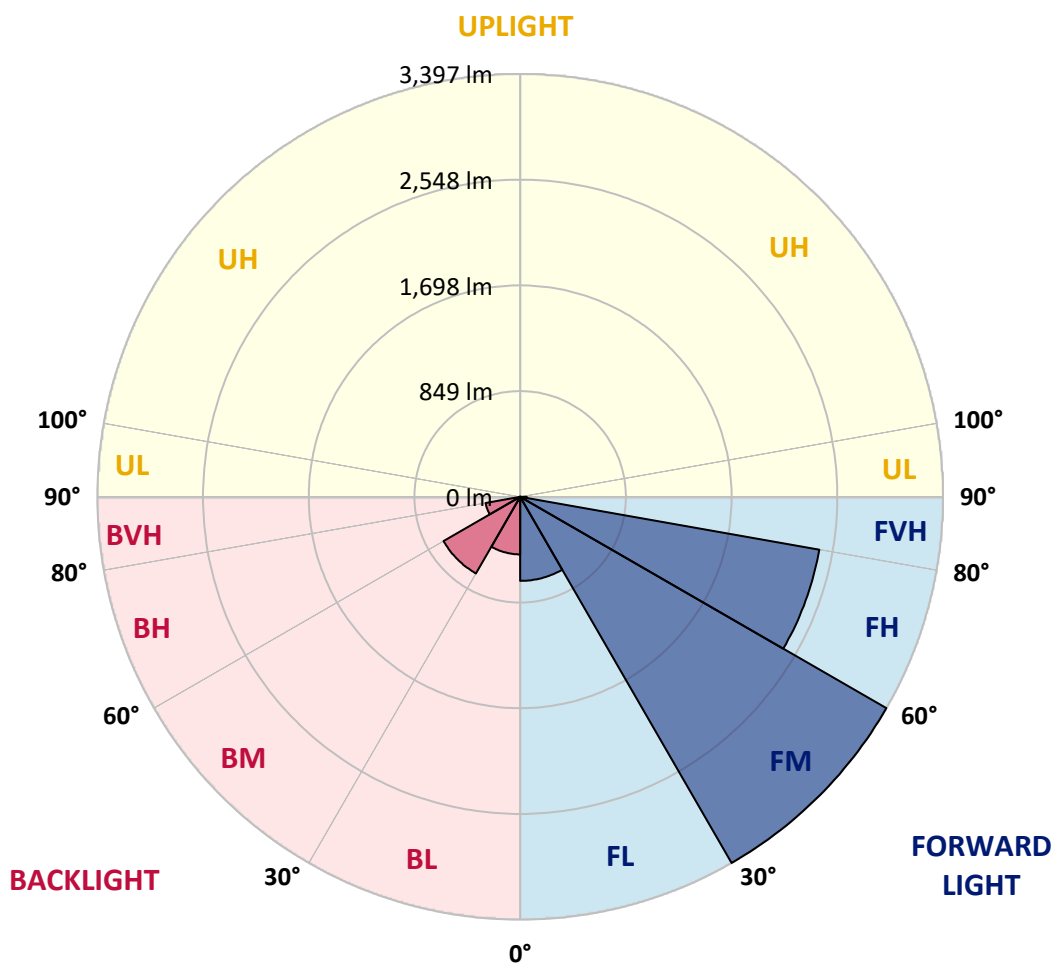
CATALOG NUMBER: VERD-CA2-70-722-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	675.6	8.4			
FM (30°-60°)	3396.9	42.3			
FH (60°-80°)	2440.5	30.4			G2/5000
FVH (80°-90°)	53.0	0.7			G1/100
BL (0°-30°)	462.5	5.8	B1/500		
BM (30°-60°)	711.2	8.9	B1/1000		
BH (60°-80°)	282.0	3.5	B1/500		G1/500
BVH (80°-90°)	7.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





REPORT NUMBER: P509294

CATALOG NUMBER: VERD-CA2-70-722-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1198.8	1198.8	1198.8	1198.8	1198.8	1198.8	1198.8	1198.8	1198.8	1198.8	1198.8
2.5°	1187.7	1199.8	1199.8	1196.0	1197.9	1189.5	1184.0	1190.5	1192.3	1197.9	1205.3
5°	1210.9	1224.8	1223.9	1217.4	1211.8	1204.4	1197.0	1202.5	1203.5	1205.3	1214.6
7.5°	1260.2	1273.2	1267.6	1261.1	1258.3	1241.6	1225.8	1224.8	1226.7	1232.3	1242.5
10°	1324.3	1334.5	1332.6	1322.4	1315.0	1289.9	1267.6	1259.2	1260.2	1262.0	1279.7
12.5°	1396.8	1410.7	1400.5	1386.5	1373.5	1337.3	1306.6	1294.5	1292.7	1297.3	1312.2
15°	1468.3	1483.2	1475.8	1467.4	1437.7	1397.7	1358.7	1339.1	1337.3	1337.3	1346.6
17.5°	1562.2	1567.8	1563.1	1551.0	1517.6	1467.4	1420.9	1392.1	1387.5	1390.3	1392.1
20°	1666.3	1676.5	1670.9	1657.9	1609.6	1555.7	1497.1	1462.7	1460.0	1462.7	1445.1
22.5°	1792.7	1796.4	1793.6	1772.2	1728.5	1657.0	1579.8	1540.8	1540.8	1543.6	1507.4
25°	1900.5	1922.8	1916.3	1890.2	1839.1	1776.9	1683.9	1635.6	1638.4	1640.2	1590.1
27.5°	2025.9	2044.5	2039.9	2020.3	1986.9	1907.9	1796.4	1764.8	1762.0	1759.2	1681.1
30°	2145.8	2159.7	2169.0	2164.4	2137.4	2063.1	1963.7	1940.4	1947.9	1942.3	1807.5
32.5°	2243.4	2267.5	2293.6	2299.1	2291.7	2225.7	2153.2	2165.3	2174.6	2240.6	2159.7
35°	2327.0	2353.0	2395.8	2440.4	2448.8	2422.7	2386.5	2474.8	2501.7	2636.5	2551.0
37.5°	2414.4	2436.7	2479.4	2550.1	2596.5	2610.5	2645.8	2785.2	2850.2	2966.4	2807.5
40°	2454.3	2476.6	2551.0	2640.2	2736.8	2814.9	2885.5	3047.2	3119.7	3155.0	2948.7
42.5°	2414.4	2435.7	2555.6	2723.8	2854.9	3027.7	3107.6	3269.3	3317.7	3313.9	3122.5
45°	2375.3	2395.8	2521.2	2745.2	2961.7	3223.8	3291.6	3472.9	3508.2	3463.6	3222.9
47.5°	2325.2	2353.0	2483.1	2732.2	3057.5	3401.3	3463.6	3617.8	3649.4	3583.5	3338.1
50°	2263.8	2288.0	2439.5	2711.8	3120.7	3534.2	3600.2	3753.5	3761.9	3700.5	3442.2
52.5°	2193.2	2206.2	2370.7	2670.9	3175.5	3631.8	3707.1	3867.8	3887.3	3870.6	3565.8
55°	2088.2	2111.4	2288.0	2606.7	3179.2	3682.9	3789.8	4029.5	4064.8	4025.8	3641.1
57.5°	1977.6	2002.7	2185.8	2517.5	3124.4	3715.4	3940.3	4239.6	4309.3	4183.8	3702.4
60°	1855.8	1878.2	2058.4	2385.6	3026.8	3761.9	4095.5	4485.8	4529.5	4318.5	3743.3
62.5°	1714.6	1732.2	1904.2	2225.7	2877.2	3749.8	4229.3	4683.8	4697.7	4439.4	3739.6
65°	1542.7	1541.7	1701.6	2002.7	2631.8	3653.2	4253.5	4783.2	4799.9	4517.4	3706.1
67.5°	1315.9	1313.1	1446.9	1730.4	2322.4	3401.3	4189.4	4876.1	4916.1	4599.2	3608.5
70°	1031.5	1035.3	1136.6	1389.3	1884.7	3017.5	4020.2	4813.9	4822.2	4442.1	3355.8
72.5°	729.5	727.7	796.4	967.4	1393.0	2355.8	3533.3	4389.2	4415.2	4053.7	2923.6
75°	334.6	348.5	520.4	591.0	841.0	1604.0	2906.9	3729.4	3779.5	3489.6	2279.6
77.5°	62.3	64.1	111.5	224.9	329.0	579.0	1736.9	2525.9	2630.9	2378.1	1284.3
80°	49.3	50.2	66.0	107.8	137.5	260.2	571.5	1040.8	1064.1	927.5	462.8
82.5°	36.2	37.2	49.3	69.7	64.1	112.4	237.9	303.0	321.5	299.2	184.0
85°	21.4	22.3	28.8	34.4	33.5	44.6	40.0	36.2	32.5	27.0	23.2
87.5°	5.6	7.4	12.1	12.1	9.3	8.4	7.4	6.5	7.4	6.5	6.5
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: P509294
 CATALOG NUMBER: VERD-CA2-70-722-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1198.8	1198.8	1198.8	1198.8	1198.8	1198.8	1198.8	1198.8	1198.8	1198.8	1198.8
2.5°	1207.2	1206.3	1209.0	1216.5	1223.0	1223.9	1233.2	1245.3	1239.7	1255.5	1249.9
5°	1220.2	1223.0	1233.2	1245.3	1256.4	1265.7	1279.7	1300.1	1293.6	1308.5	1302.9
7.5°	1249.9	1254.6	1270.4	1282.5	1295.5	1292.7	1304.8	1316.8	1302.0	1317.8	1310.3
10°	1285.2	1290.8	1300.1	1304.8	1301.0	1299.2	1296.4	1294.5	1275.0	1286.2	1281.5
12.5°	1316.8	1317.8	1315.0	1302.9	1294.5	1272.2	1262.0	1257.4	1227.6	1236.0	1230.4
15°	1347.5	1334.5	1320.6	1292.7	1269.4	1235.1	1212.8	1193.2	1165.4	1176.5	1165.4
17.5°	1381.0	1361.5	1325.2	1284.3	1236.9	1186.7	1150.5	1118.9	1077.1	1075.2	1071.5
20°	1423.7	1394.9	1336.4	1269.4	1201.6	1126.3	1068.7	1015.7	952.6	944.2	927.5
22.5°	1477.6	1434.9	1353.1	1249.9	1157.9	1063.1	965.6	878.2	798.3	773.2	763.9
25°	1539.9	1486.9	1362.4	1232.3	1116.1	971.1	838.2	724.9	631.0	604.1	596.6
27.5°	1617.9	1552.9	1376.3	1206.3	1049.2	858.7	685.8	560.4	476.7	433.1	426.6
30°	1725.7	1626.3	1395.8	1180.2	968.3	726.7	531.6	385.7	306.7	280.7	276.0
32.5°	2019.4	1801.0	1417.2	1133.8	861.5	579.9	353.1	246.3	193.3	171.9	170.1
35°	2392.1	2120.7	1495.3	1080.8	732.3	402.4	219.3	146.8	118.0	109.7	109.7
37.5°	2632.8	2368.8	1625.4	1006.5	562.2	246.3	132.0	95.7	90.1	89.2	89.2
40°	2759.1	2478.5	1719.2	904.2	376.4	143.1	92.9	82.7	80.9	79.0	79.0
42.5°	2919.9	2572.4	1800.1	765.8	218.4	100.4	81.8	75.3	72.5	70.6	70.6
45°	3009.1	2674.6	1749.0	601.3	124.5	90.1	75.3	67.8	65.1	65.1	65.1
47.5°	3096.5	2772.2	1683.9	432.1	105.9	82.7	70.6	63.2	60.4	62.3	62.3
50°	3195.9	2838.1	1580.8	323.4	100.4	77.1	64.1	57.6	55.8	58.5	58.5
52.5°	3288.9	2844.6	1415.4	258.4	92.9	71.6	59.5	53.0	51.1	53.0	53.0
55°	3315.8	2824.2	1368.0	205.4	88.3	66.0	55.8	49.3	44.6	44.6	43.7
57.5°	3309.3	2784.2	1252.7	173.8	82.7	60.4	51.1	43.7	38.1	36.2	36.2
60°	3287.0	2728.5	1131.0	151.5	77.1	55.8	45.5	37.2	31.6	29.7	29.7
62.5°	3259.1	2623.5	959.1	132.0	71.6	53.9	38.1	30.7	27.0	25.1	25.1
65°	3142.0	2459.9	767.6	112.4	66.0	47.4	33.5	27.0	23.2	21.4	21.4
67.5°	2947.8	2210.8	554.8	95.7	61.3	40.0	29.7	23.2	19.5	18.6	17.7
70°	2657.9	1867.0	343.8	82.7	53.0	36.2	26.0	20.4	17.7	14.9	14.9
72.5°	2215.5	1461.8	180.3	65.1	41.8	30.7	23.2	18.6	14.9	13.0	12.1
75°	1557.5	901.4	130.1	50.2	28.8	25.1	19.5	15.8	13.0	11.2	10.2
77.5°	751.8	310.4	91.1	37.2	20.4	18.6	14.9	13.0	10.2	9.3	9.3
80°	275.1	176.6	65.1	27.0	16.7	14.9	11.2	10.2	8.4	7.4	7.4
82.5°	123.6	83.6	37.2	17.7	12.1	11.2	8.4	6.5	6.5	6.5	6.5
85°	20.4	17.7	12.1	8.4	6.5	5.6	5.6	4.6	4.6	4.6	4.6
87.5°	5.6	5.6	4.6	4.6	3.7	2.8	1.9	1.9	1.9	2.8	2.8
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)