

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: P509408

Luminaire Tested: **VERD-CA2-90-730-U-T4-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509408
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-90-730-U-T4-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1250mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11528 lumens
Efficiency: N/A
Efficacy: 122.4 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

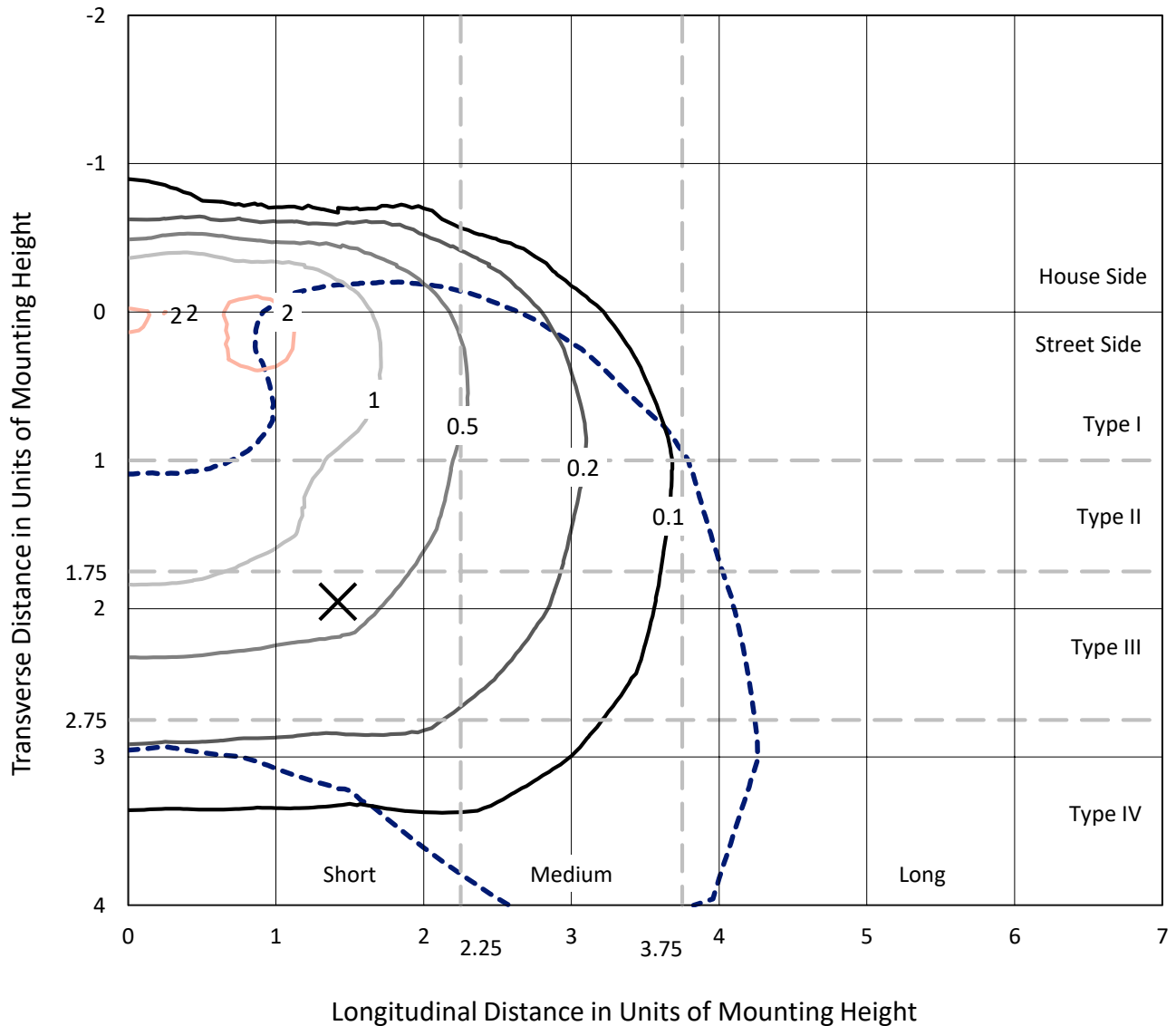
Input Watts (W): 94.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

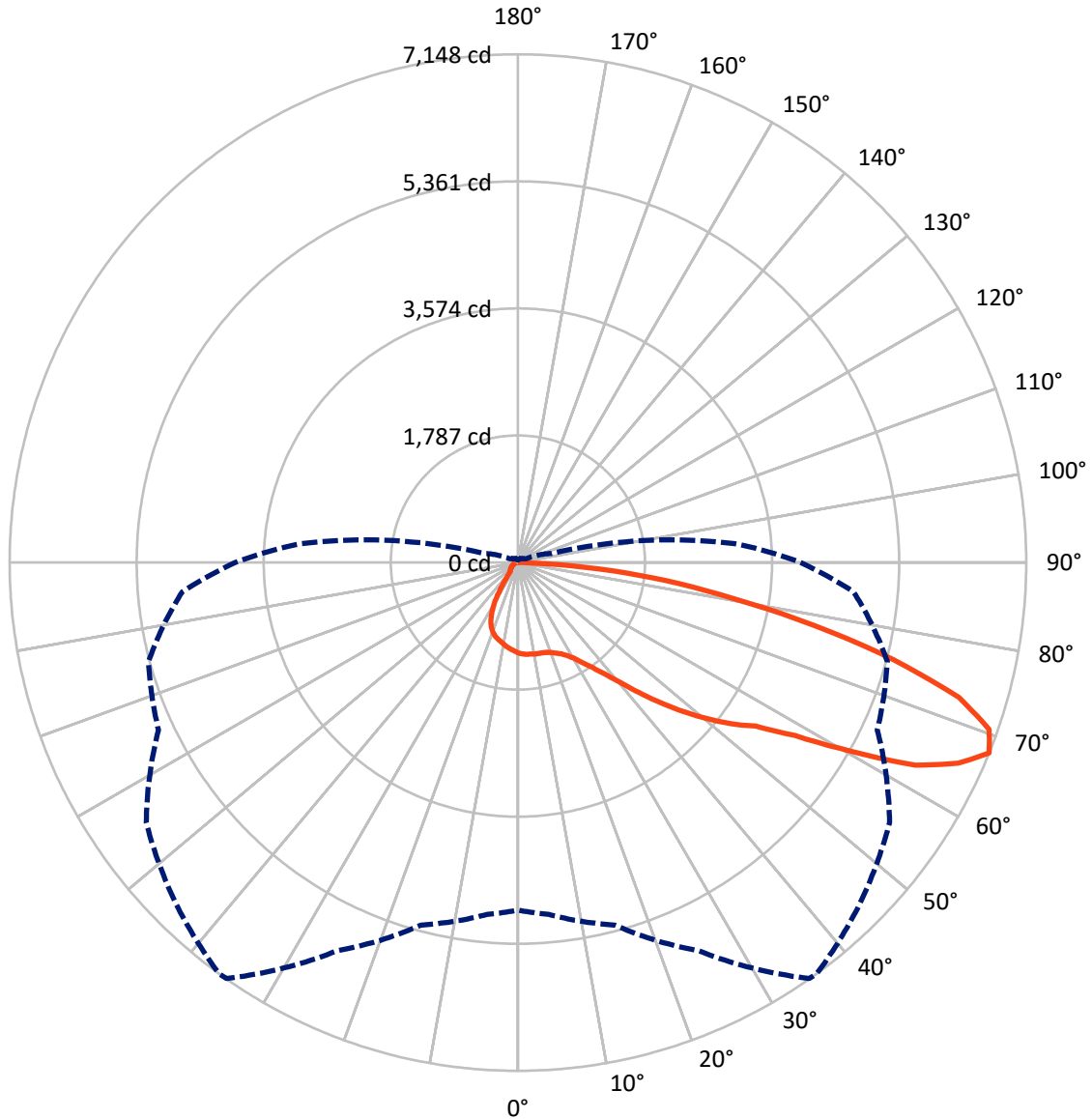
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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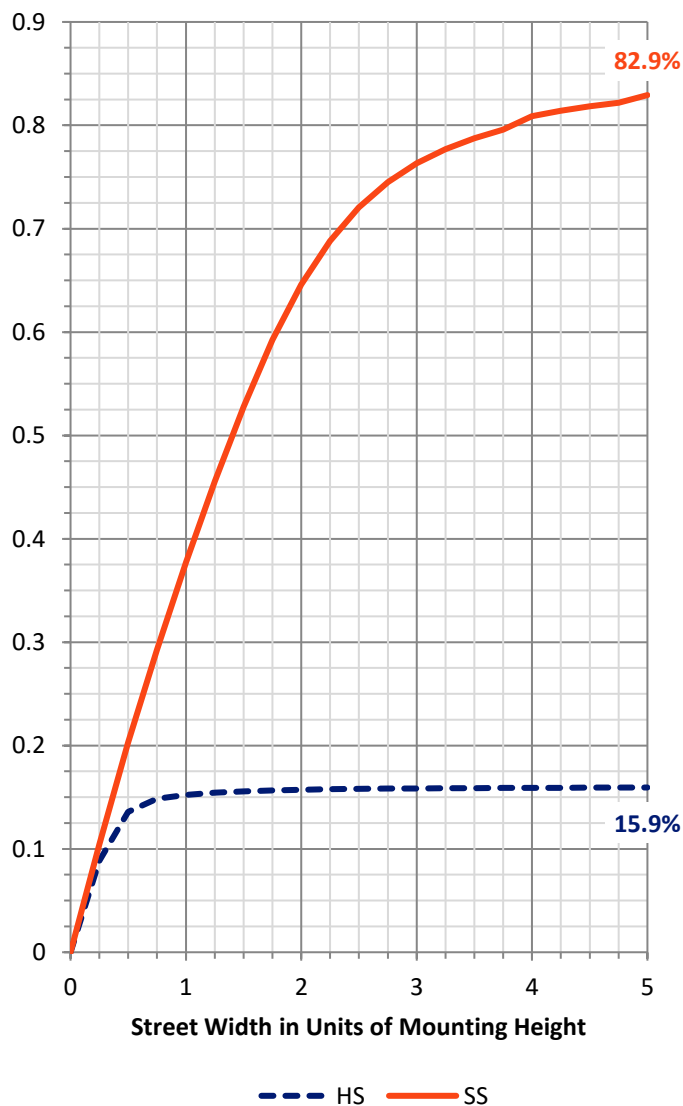
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1859.1	0.0	1859.1
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	9668.9	0.0	9668.9
	% Fixture	83.9	0.0	83.9
Total	Lumens	11528.0	0.0	11528.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.2	1.0
10°-20°	356.2	3.1
20°-30°	589.1	5.1
30°-40°	934.5	8.1
40°-50°	1612.9	14.0
50°-60°	2390.8	20.7
60°-70°	3090.9	26.8
70°-80°	2086.5	18.1
80°-90°	346.8	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°	11528.0	100.0
0°-180°	11528.0	100.0

Coefficient of Utilization



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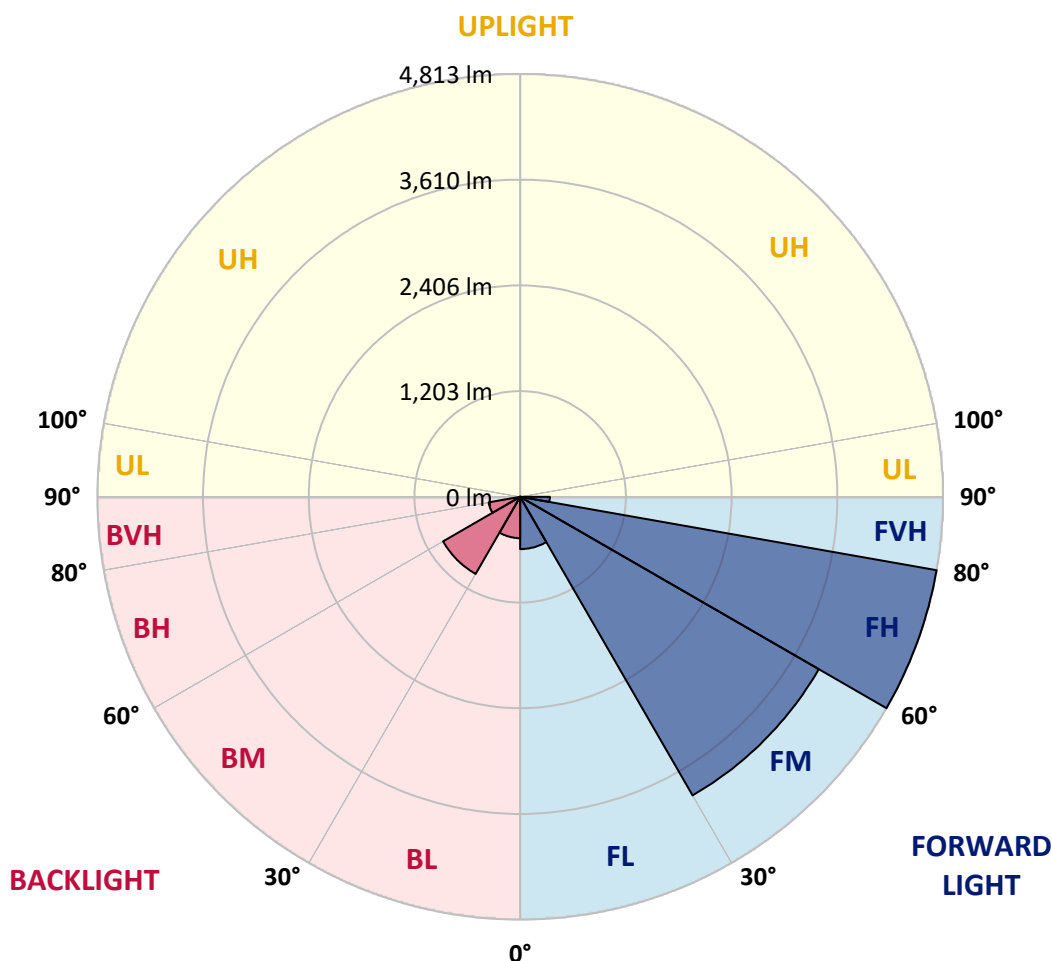
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	595.1	5.2			
FM	(30°-60°)	3923.9	34.0			
FH	(60°-80°)	4813.0	41.8			G2/5000
FVH	(80°-90°)	337.0	2.9			G3/500
BL	(0°-30°)	470.5	4.1	B1/500		
BM	(30°-60°)	1014.3	8.8	B2/2500		
BH	(60°-80°)	364.5	3.2	B1/500		G1/500
BVH	(80°-90°)	9.8	0.1			G0/10
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°	1274.1	1274.1	1274.1	1274.1	1274.1	1274.1	1274.1	1274.1	1274.1	1274.1	1274.1
2.5°	1279.6	1292.0	1290.6	1289.2	1289.2	1287.8	1279.6	1271.3	1275.4	1274.1	1272.7
5°	1285.1	1297.5	1296.1	1294.7	1294.7	1296.1	1283.7	1274.1	1276.8	1279.6	1278.2
7.5°	1287.8	1298.9	1296.1	1294.7	1293.4	1297.5	1287.8	1289.2	1292.0	1292.0	1292.0
10°	1292.0	1300.3	1300.3	1301.6	1303.0	1307.2	1303.0	1307.2	1318.2	1315.4	1322.3
12.5°	1281.0	1290.6	1294.7	1301.6	1308.5	1311.3	1315.4	1326.5	1340.2	1347.1	1354.0
15°	1276.8	1286.5	1293.4	1301.6	1312.7	1315.4	1326.5	1345.8	1362.3	1376.1	1391.3
17.5°	1290.6	1301.6	1311.3	1316.8	1322.3	1326.5	1337.5	1362.3	1391.3	1416.1	1438.1
20°	1316.8	1327.8	1338.9	1344.4	1348.5	1351.3	1359.5	1383.0	1420.2	1458.8	1490.5
22.5°	1347.1	1358.2	1370.6	1374.7	1384.4	1384.4	1385.7	1409.2	1454.7	1507.1	1545.7
25°	1380.2	1387.1	1398.2	1405.0	1418.8	1421.6	1425.7	1446.4	1502.9	1562.2	1622.9
27.5°	1418.8	1432.6	1443.7	1451.9	1479.5	1480.9	1478.1	1504.3	1559.5	1632.6	1718.0
30°	1489.2	1504.3	1515.4	1529.1	1565.0	1563.6	1581.5	1609.1	1640.8	1720.8	1835.3
32.5°	1600.8	1602.2	1607.7	1625.7	1676.7	1682.2	1716.7	1766.3	1829.7	1880.8	2002.1
35°	1804.9	1798.0	1781.5	1778.7	1813.2	1815.9	1883.5	1988.3	2126.2	2295.8	2483.3
37.5°	2043.5	2061.4	2042.1	1982.8	1988.3	1989.7	2069.7	2203.4	2459.9	2884.6	3062.4
40°	2462.6	2472.3	2352.3	2258.6	2225.5	2210.3	2251.7	2454.4	2782.5	3335.4	3460.9
42.5°	2832.2	2832.2	2720.5	2575.7	2491.6	2502.6	2490.2	2691.5	3113.4	3727.0	3772.5
45°	3201.7	3189.3	3087.2	2965.9	2818.4	2808.7	2777.0	2931.4	3418.2	4008.3	4009.7
47.5°	3546.4	3575.4	3422.3	3288.6	3138.3	3131.4	3074.8	3194.8	3710.5	4255.1	4217.9
50°	3909.0	3949.0	3757.4	3607.1	3444.4	3454.0	3407.1	3491.3	4001.4	4485.4	4417.8
52.5°	4424.7	4350.3	4121.4	3913.2	3745.0	3772.5	3724.3	3773.9	4303.4	4668.8	4528.1
55°	4977.7	4845.3	4655.0	4306.2	4062.1	4059.3	4023.5	4082.8	4608.1	4878.4	4653.6
57.5°	5274.1	5314.1	5270.0	4987.3	4593.0	4586.1	4371.0	4377.9	4888.0	5057.6	4828.7
60°	5611.9	5661.6	5758.1	5581.6	5384.4	5389.9	4853.6	4693.6	5183.1	5201.0	4842.5
62.5°	5791.2	5796.7	6018.7	6080.7	6240.7	6276.5	5869.8	5079.7	5378.9	5311.3	4866.0
65°	5474.0	5483.7	5911.1	6224.1	6757.7	6806.0	6630.9	5827.0	5525.1	5369.2	4843.9
67.5°	4888.0	4966.6	5278.2	6025.6	7141.1	7148.0	6795.0	6379.9	5576.1	5377.5	4737.7
70°	4096.6	4069.0	4463.3	5361.0	7081.8	7030.8	6723.3	6443.4	5538.8	5264.5	4253.8
72.5°	3037.6	2996.2	3403.0	4310.3	6388.2	6484.7	6402.0	6072.5	5398.2	4842.5	3452.6
75°	2079.3	2127.6	2493.0	3250.0	5305.8	5452.0	5817.4	5785.7	4802.5	4013.8	2363.4
77.5°	1423.0	1443.7	1756.7	2418.5	4205.5	4262.0	4867.3	4674.3	3531.2	2466.8	788.7
80°	926.6	919.7	1201.0	1722.2	3083.1	3076.2	3476.1	2957.6	1902.8	841.1	108.9
82.5°	517.1	547.4	719.8	1132.0	2083.4	2105.5	2170.3	1617.4	732.2	97.9	68.9
85°	290.9	303.3	413.7	641.2	1092.0	1147.2	968.0	594.3	131.0	53.8	40.0
87.5°	68.9	66.2	132.4	245.4	182.0	197.2	93.8	27.6	13.8	9.7	9.7
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°	1274.1	1274.1	1274.1	1274.1	1274.1	1274.1	1274.1	1274.1	1274.1	1274.1	1274.1
2.5°	1272.7	1269.9	1267.2	1261.6	1257.5	1245.1	1246.5	1254.8	1246.5	1260.3	1252.0
5°	1275.4	1271.3	1264.4	1247.9	1235.5	1225.8	1223.0	1221.7	1210.6	1223.0	1217.5
7.5°	1286.5	1282.3	1267.2	1249.2	1231.3	1202.4	1198.2	1192.7	1172.0	1180.3	1173.4
10°	1312.7	1307.2	1281.0	1256.1	1228.6	1189.9	1167.9	1151.3	1127.9	1130.7	1123.8
12.5°	1345.8	1340.2	1309.9	1268.5	1229.9	1176.2	1137.6	1105.8	1071.4	1071.4	1064.5
15°	1384.4	1378.9	1344.4	1296.1	1235.5	1165.1	1107.2	1056.2	1001.0	994.2	985.9
17.5°	1436.8	1428.5	1388.5	1326.5	1250.6	1155.5	1076.9	1001.0	916.9	890.7	876.9
20°	1490.5	1480.9	1446.4	1369.2	1271.3	1145.8	1032.8	929.3	820.4	766.6	757.0
22.5°	1559.5	1556.7	1514.0	1406.4	1278.2	1125.1	977.6	849.4	703.2	628.8	613.6
25°	1640.8	1636.7	1570.5	1435.4	1269.9	1083.8	899.0	734.9	570.8	496.4	479.8
27.5°	1737.4	1726.3	1618.8	1442.3	1246.5	1019.0	798.4	587.4	421.9	358.5	346.1
30°	1839.4	1822.8	1669.8	1443.7	1199.6	939.0	666.0	431.6	299.2	253.7	253.7
32.5°	2010.4	1953.8	1719.4	1424.4	1132.0	824.6	507.4	290.9	209.6	191.7	191.7
35°	2377.1	2242.0	1798.0	1399.5	1043.8	682.5	344.7	197.2	175.1	175.1	173.7
37.5°	2927.3	2676.3	1931.8	1358.2	923.8	507.4	227.5	162.7	166.8	166.8	166.8
40°	3278.9	3015.5	2113.8	1293.4	785.9	344.7	162.7	154.4	157.2	159.9	159.9
42.5°	3607.1	3310.6	2295.8	1203.7	634.3	220.6	151.7	144.8	146.2	146.2	147.5
45°	3815.3	3529.9	2430.9	1108.6	467.4	157.2	148.9	136.5	132.4	132.4	135.1
47.5°	4008.3	3673.3	2490.2	983.1	302.0	147.5	142.0	126.9	121.3	120.0	120.0
50°	4201.4	3820.8	2523.3	834.2	188.9	142.0	131.0	115.8	110.3	108.9	108.9
52.5°	4286.8	3867.7	2448.8	666.0	140.6	136.5	122.7	106.2	97.9	97.9	97.9
55°	4376.5	3954.5	2323.4	477.1	133.7	126.9	113.1	95.1	88.2	91.0	91.0
57.5°	4475.8	3892.5	2189.6	310.2	132.4	114.4	100.7	85.5	80.0	82.7	84.1
60°	4445.4	3907.7	1998.0	208.2	126.9	104.8	91.0	75.8	71.7	71.7	71.7
62.5°	4445.4	3790.5	1683.6	158.6	115.8	96.5	84.1	70.3	63.4	60.7	57.9
65°	4328.2	3513.3	1229.9	137.9	103.4	89.6	75.8	62.0	53.8	49.6	48.3
67.5°	3973.8	3054.2	495.0	125.5	95.1	82.7	70.3	56.5	46.9	41.4	40.0
70°	3378.2	2254.4	142.0	111.7	96.5	77.2	66.2	49.6	41.4	34.5	33.1
72.5°	2504.0	1191.3	115.8	88.2	85.5	66.2	62.0	46.9	35.9	29.0	27.6
75°	1264.4	162.7	99.3	63.4	66.2	68.9	59.3	41.4	33.1	23.4	22.1
77.5°	131.0	96.5	86.9	42.7	46.9	48.3	51.0	38.6	29.0	19.3	17.9
80°	81.4	73.1	85.5	37.2	27.6	33.1	34.5	30.3	23.4	15.2	15.2
82.5°	57.9	62.0	63.4	23.4	20.7	19.3	17.9	17.9	20.7	13.8	13.8
85°	40.0	41.4	26.2	15.2	13.8	12.4	11.0	11.0	9.7	11.0	9.7
87.5°	9.7	8.3	8.3	8.3	6.9	6.9	5.5	5.5	5.5	5.5	6.9
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)