

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: P509416

Luminaire Tested: **VERD-CA2-90-740-U-T4-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509416
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-CA2-90-740-U-T4-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1250mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11741 lumens
Efficiency: N/A
Efficacy: 124.6 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

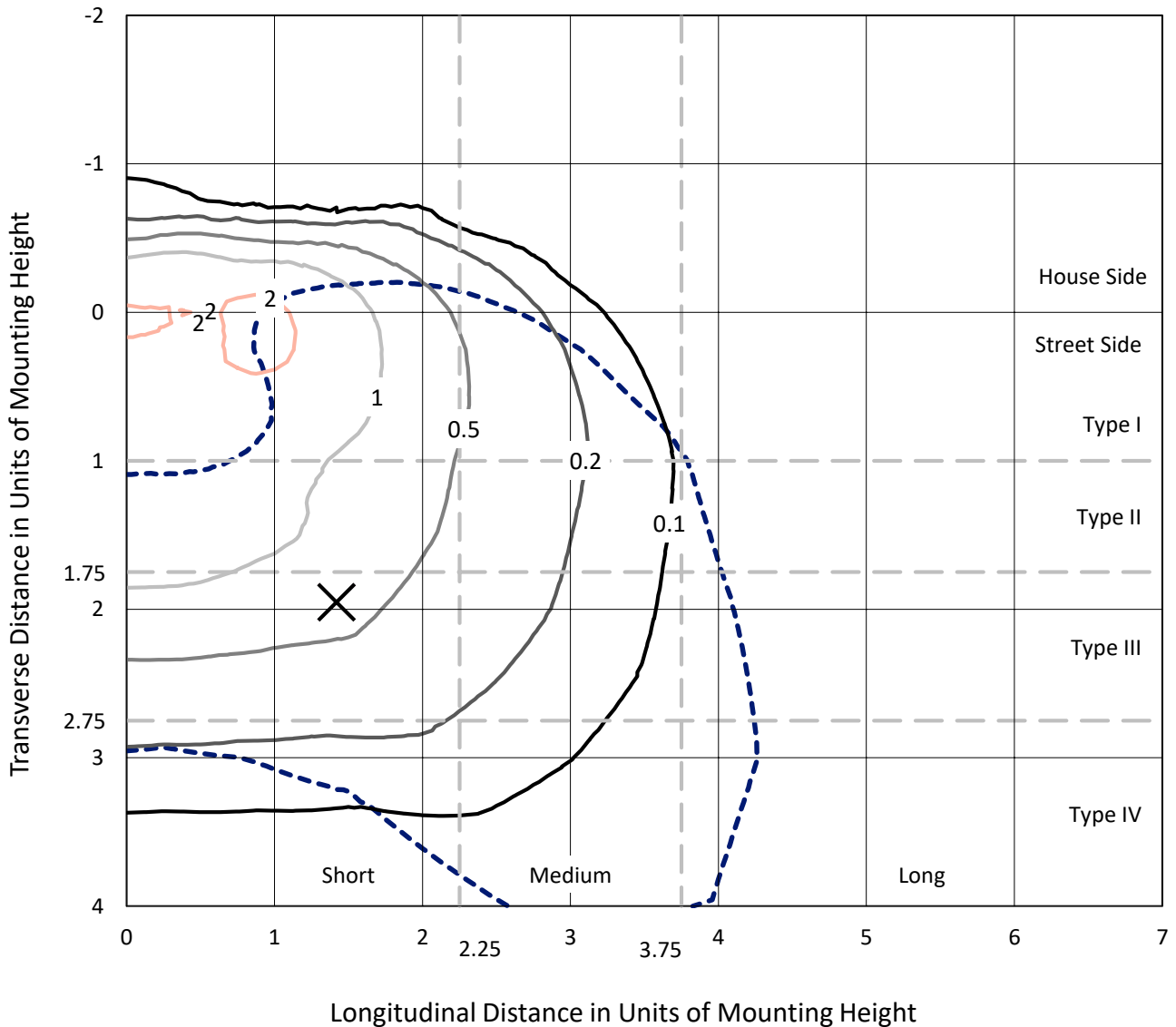
Input Watts (W): 94.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

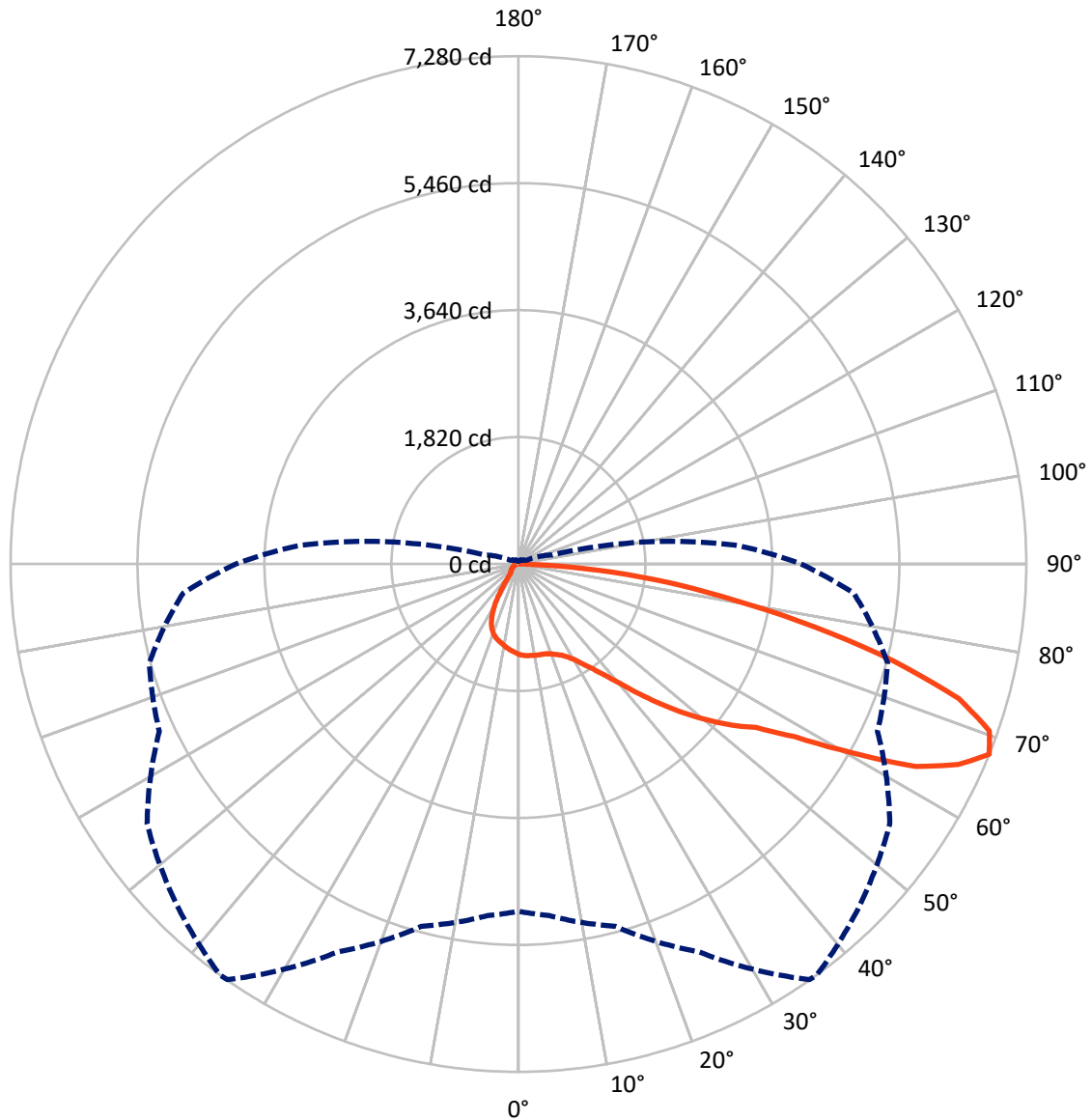
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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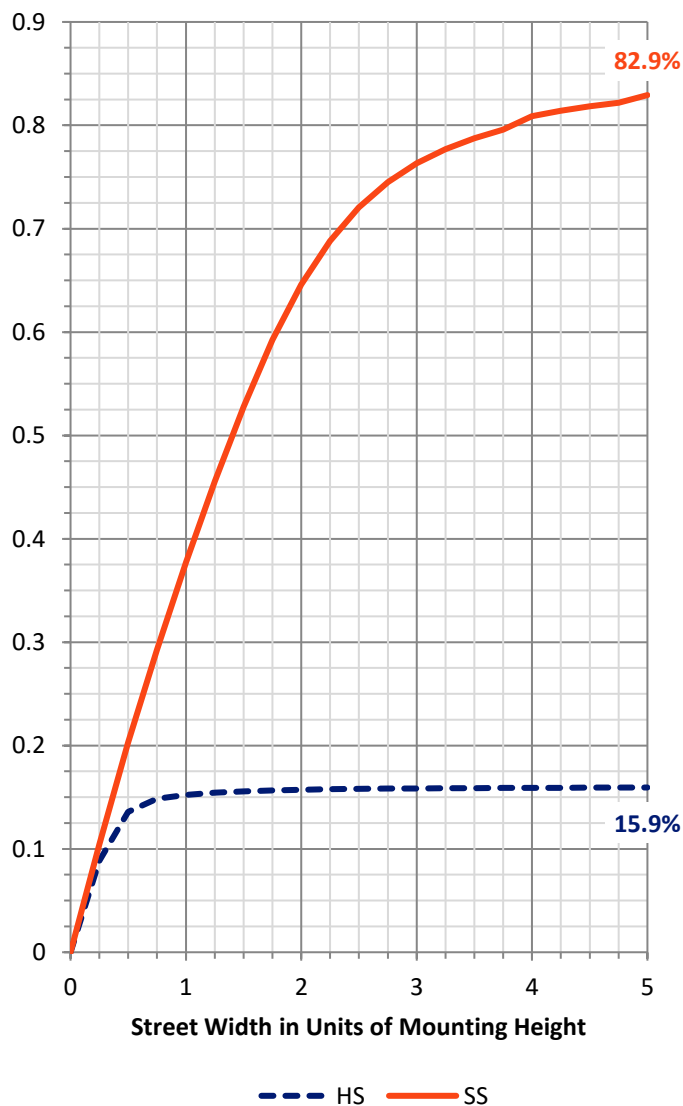
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1893.4	0.0	1893.4
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	9847.6	0.0	9847.6
	% Fixture	83.9	0.0	83.9
Total	Lumens	11741.0	0.0	11741.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.4	1.0
10°-20°	362.8	3.1
20°-30°	600.0	5.1
30°-40°	951.7	8.1
40°-50°	1642.7	14.0
50°-60°	2434.9	20.7
60°-70°	3148.1	26.8
70°-80°	2125.1	18.1
80°-90°	353.2	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°	11741.0	100.0
0°-180°	11741.0	100.0

Coefficient of Utilization



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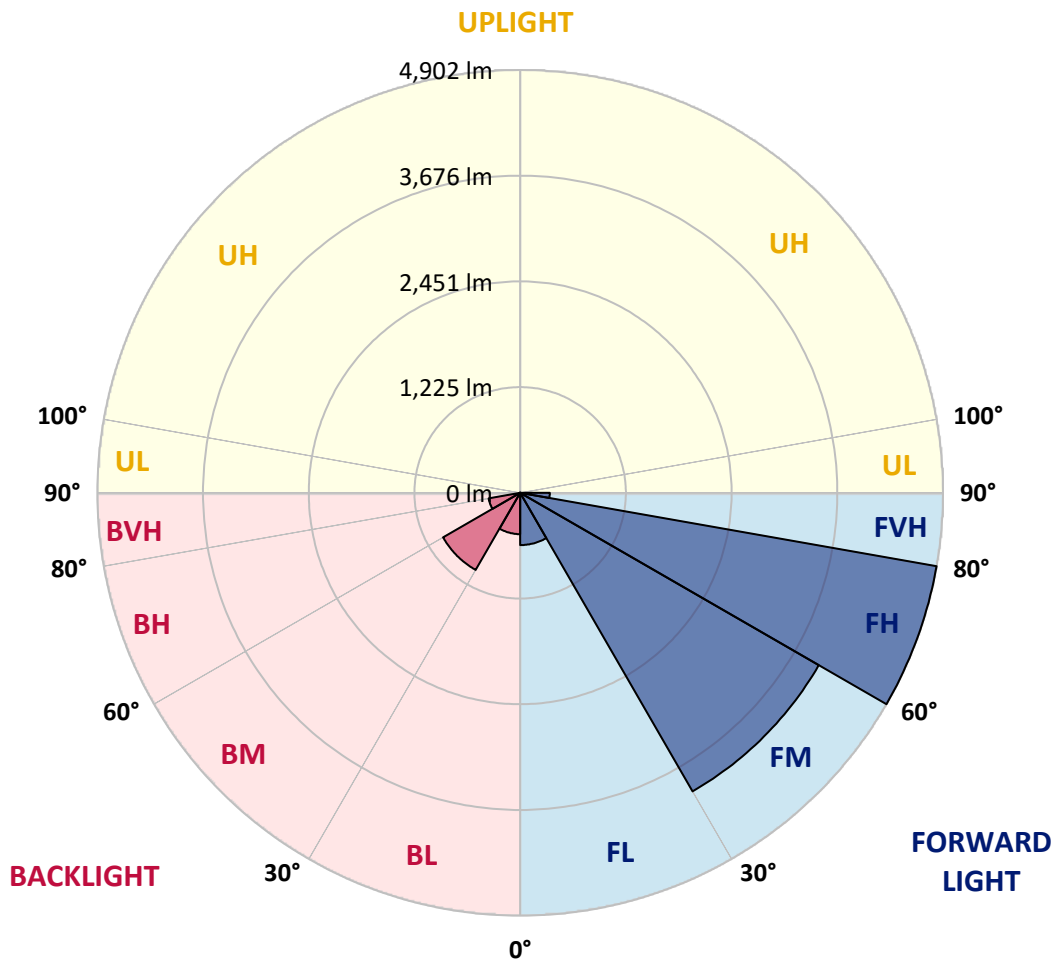
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	606.1	5.2			
FM (30°-60°)	3996.4	34.0			
FH (60°-80°)	4901.9	41.8			G2/5000
FVH (80°-90°)	343.2	2.9			G3/500
BL (0°-30°)	479.2	4.1	B1/500		
BM (30°-60°)	1033.0	8.8	B2/2500		
BH (60°-80°)	371.2	3.2	B1/500		G1/500
BVH (80°-90°)	10.0	0.1			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°	1297.6	1297.6	1297.6	1297.6	1297.6	1297.6	1297.6	1297.6	1297.6	1297.6	1297.6
2.5°	1303.2	1315.9	1314.5	1313.0	1313.0	1311.6	1303.2	1294.8	1299.0	1297.6	1296.2
5°	1308.8	1321.5	1320.1	1318.7	1318.7	1320.1	1307.4	1297.6	1300.4	1303.2	1301.8
7.5°	1311.6	1322.9	1320.1	1318.7	1317.3	1321.5	1311.6	1313.0	1315.9	1315.9	1315.9
10°	1315.9	1324.3	1324.3	1325.7	1327.1	1331.3	1327.1	1331.3	1342.5	1339.7	1346.8
12.5°	1304.6	1314.5	1318.7	1325.7	1332.7	1335.5	1339.7	1351.0	1365.0	1372.0	1379.0
15°	1300.4	1310.2	1317.3	1325.7	1336.9	1339.7	1351.0	1370.6	1387.5	1401.5	1417.0
17.5°	1314.5	1325.7	1335.5	1341.1	1346.8	1351.0	1362.2	1387.5	1417.0	1442.2	1464.7
20°	1341.1	1352.4	1363.6	1369.2	1373.4	1376.2	1384.7	1408.5	1446.5	1485.8	1518.1
22.5°	1372.0	1383.3	1395.9	1400.1	1409.9	1409.9	1411.3	1435.2	1481.6	1534.9	1574.3
25°	1405.7	1412.8	1424.0	1431.0	1445.1	1447.9	1452.1	1473.1	1530.7	1591.1	1652.9
27.5°	1445.1	1459.1	1470.3	1478.8	1506.8	1508.2	1505.4	1532.1	1588.3	1662.7	1749.8
30°	1516.7	1532.1	1543.4	1557.4	1593.9	1592.5	1610.8	1638.9	1671.1	1752.6	1869.2
32.5°	1630.4	1631.8	1637.4	1655.7	1707.7	1713.3	1748.4	1798.9	1863.5	1915.5	2039.1
35°	1838.3	1831.2	1814.4	1811.6	1846.7	1849.5	1918.3	2025.0	2165.5	2338.2	2529.2
37.5°	2081.2	2099.5	2079.8	2019.4	2025.0	2026.4	2107.9	2244.1	2505.3	2937.9	3119.0
40°	2508.1	2518.0	2395.8	2300.3	2266.6	2251.1	2293.3	2499.7	2833.9	3397.1	3524.9
42.5°	2884.5	2884.5	2770.7	2623.3	2537.6	2548.9	2536.2	2741.2	3171.0	3795.9	3842.2
45°	3260.8	3248.2	3144.3	3020.7	2870.4	2860.6	2828.3	2985.6	3481.3	4082.4	4083.8
47.5°	3611.9	3641.4	3485.5	3349.3	3196.2	3189.2	3131.7	3253.8	3779.0	4333.8	4295.8
50°	3981.3	4022.0	3826.8	3673.7	3508.0	3517.8	3470.1	3555.8	4075.4	4568.3	4499.5
52.5°	4506.5	4430.7	4197.5	3985.5	3814.2	3842.2	3793.1	3843.6	4382.9	4755.1	4611.8
55°	5069.6	4934.8	4741.0	4385.7	4137.1	4134.3	4097.8	4158.2	4693.3	4968.5	4739.6
57.5°	5371.6	5412.3	5367.3	5079.5	4677.8	4670.8	4451.7	4458.7	4978.3	5151.1	4918.0
60°	5715.6	5766.2	5864.5	5684.7	5483.9	5489.5	4943.2	4780.3	5278.9	5297.1	4932.0
62.5°	5898.2	5903.8	6129.9	6193.1	6356.0	6392.5	5978.2	5173.5	5478.3	5409.5	4955.9
65°	5575.2	5585.0	6020.4	6339.1	6882.6	6931.8	6753.4	5934.7	5627.1	5468.5	4933.4
67.5°	4978.3	5058.4	5375.8	6136.9	7273.0	7280.0	6920.5	6497.8	5679.1	5476.9	4825.3
70°	4172.3	4144.2	4545.8	5460.0	7212.6	7160.7	6847.5	6562.4	5641.2	5361.7	4332.4
72.5°	3093.7	3051.6	3465.9	4389.9	6506.2	6604.6	6520.3	6184.7	5497.9	4932.0	3516.4
75°	2117.7	2166.9	2539.0	3310.0	5403.9	5552.7	5924.9	5892.6	4891.3	4088.0	2407.0
77.5°	1449.3	1470.3	1789.1	2463.2	4283.2	4340.8	4957.3	4760.7	3596.5	2512.3	803.3
80°	943.7	936.7	1223.2	1754.0	3140.1	3133.1	3540.3	3012.3	1938.0	856.6	110.9
82.5°	526.6	557.5	733.1	1153.0	2121.9	2144.4	2210.4	1647.3	745.7	99.7	70.2
85°	296.3	309.0	421.3	653.0	1112.2	1168.4	985.8	605.3	133.4	54.8	40.7
87.5°	70.2	67.4	134.8	250.0	185.4	200.8	95.5	28.1	14.0	9.8	9.8
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°	1297.6	1297.6	1297.6	1297.6	1297.6	1297.6	1297.6	1297.6	1297.6	1297.6	1297.6
2.5°	1296.2	1293.4	1290.6	1285.0	1280.7	1268.1	1269.5	1277.9	1269.5	1283.6	1275.1
5°	1299.0	1294.8	1287.8	1270.9	1258.3	1248.4	1245.6	1244.2	1233.0	1245.6	1240.0
7.5°	1310.2	1306.0	1290.6	1272.3	1254.1	1224.6	1220.4	1214.7	1193.7	1202.1	1195.1
10°	1336.9	1331.3	1304.6	1279.3	1251.3	1211.9	1189.5	1172.6	1148.7	1151.5	1144.5
12.5°	1370.6	1365.0	1334.1	1292.0	1252.7	1197.9	1158.6	1126.3	1091.2	1091.2	1084.1
15°	1409.9	1404.3	1369.2	1320.1	1258.3	1186.7	1127.7	1075.7	1019.5	1012.5	1004.1
17.5°	1463.3	1454.9	1414.2	1351.0	1273.7	1176.8	1096.8	1019.5	933.9	907.2	893.2
20°	1518.1	1508.2	1473.1	1394.5	1294.8	1167.0	1051.8	946.5	835.6	780.8	771.0
22.5°	1588.3	1585.5	1542.0	1432.4	1301.8	1145.9	995.7	865.1	716.2	640.4	624.9
25°	1671.1	1666.9	1599.5	1461.9	1293.4	1103.8	915.6	748.5	581.4	505.6	488.7
27.5°	1769.5	1758.2	1648.7	1468.9	1269.5	1037.8	813.1	598.2	429.7	365.1	352.5
30°	1873.4	1856.5	1700.6	1470.3	1221.8	956.3	678.3	439.6	304.7	258.4	258.4
32.5°	2047.5	1989.9	1751.2	1450.7	1153.0	839.8	516.8	296.3	213.5	195.2	195.2
35°	2421.1	2283.4	1831.2	1425.4	1063.1	695.1	351.1	200.8	178.3	178.3	176.9
37.5°	2981.4	2725.8	1967.5	1383.3	940.9	516.8	231.7	165.7	169.9	169.9	169.9
40°	3339.5	3071.3	2152.8	1317.3	800.5	351.1	165.7	157.3	160.1	162.9	162.9
42.5°	3673.7	3371.8	2338.2	1226.0	646.0	224.7	154.5	147.5	148.9	148.9	150.3
45°	3885.8	3595.1	2475.8	1129.1	476.1	160.1	151.7	139.0	134.8	134.8	137.6
47.5°	4082.4	3741.1	2536.2	1001.3	307.5	150.3	144.6	129.2	123.6	122.2	122.2
50°	4279.0	3891.4	2569.9	849.6	192.4	144.6	133.4	118.0	112.3	110.9	110.9
52.5°	4366.1	3939.1	2494.1	678.3	143.2	139.0	125.0	108.1	99.7	99.7	99.7
55°	4457.3	4027.6	2366.3	485.9	136.2	129.2	115.2	96.9	89.9	92.7	92.7
57.5°	4558.4	3964.4	2230.1	316.0	134.8	116.6	102.5	87.1	81.5	84.3	85.7
60°	4527.6	3979.9	2034.9	212.1	129.2	106.7	92.7	77.2	73.0	73.0	73.0
62.5°	4527.6	3860.5	1714.7	161.5	118.0	98.3	85.7	71.6	64.6	61.8	59.0
65°	4408.2	3578.2	1252.7	140.4	105.3	91.3	77.2	63.2	54.8	50.6	49.2
67.5°	4047.3	3110.6	504.2	127.8	96.9	84.3	71.6	57.6	47.7	42.1	40.7
70°	3440.6	2296.1	144.6	113.8	98.3	78.6	67.4	50.6	42.1	35.1	33.7
72.5°	2550.3	1213.3	118.0	89.9	87.1	67.4	63.2	47.7	36.5	29.5	28.1
75°	1287.8	165.7	101.1	64.6	67.4	70.2	60.4	42.1	33.7	23.9	22.5
77.5°	133.4	98.3	88.5	43.5	47.7	49.2	52.0	39.3	29.5	19.7	18.3
80°	82.9	74.4	87.1	37.9	28.1	33.7	35.1	30.9	23.9	15.4	15.4
82.5°	59.0	63.2	64.6	23.9	21.1	19.7	18.3	18.3	21.1	14.0	14.0
85°	40.7	42.1	26.7	15.4	14.0	12.6	11.2	11.2	9.8	11.2	9.8
87.5°	9.8	8.4	8.4	8.4	7.0	7.0	5.6	5.6	5.6	5.6	7.0
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)