

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: P509424

Luminaire Tested: **VERD-CA2-90-750-U-T4-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509424
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-CA2-90-750-U-T4-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1250mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11956 lumens
Efficiency: N/A
Efficacy: 126.9 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

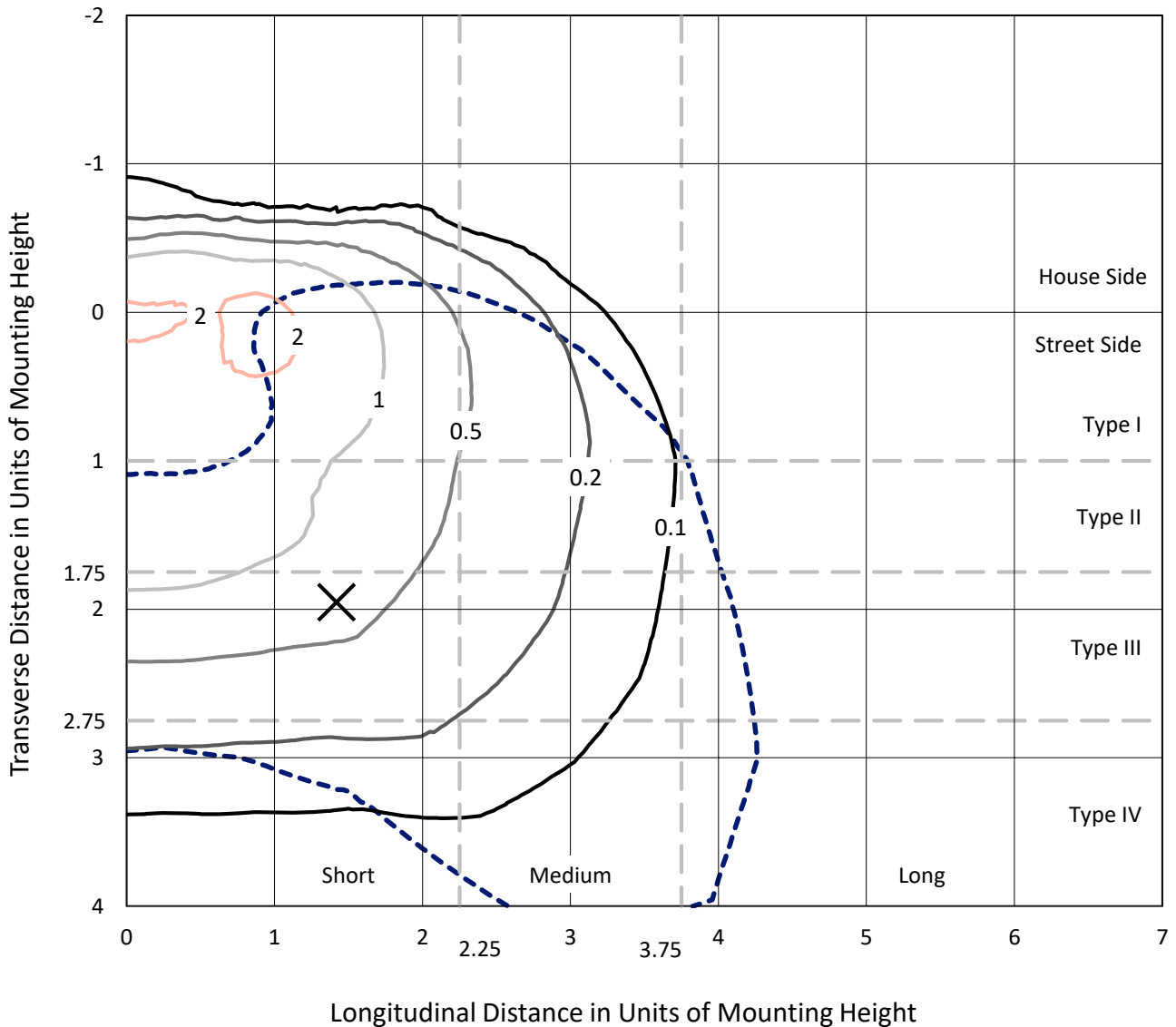
Input Watts (W): 94.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

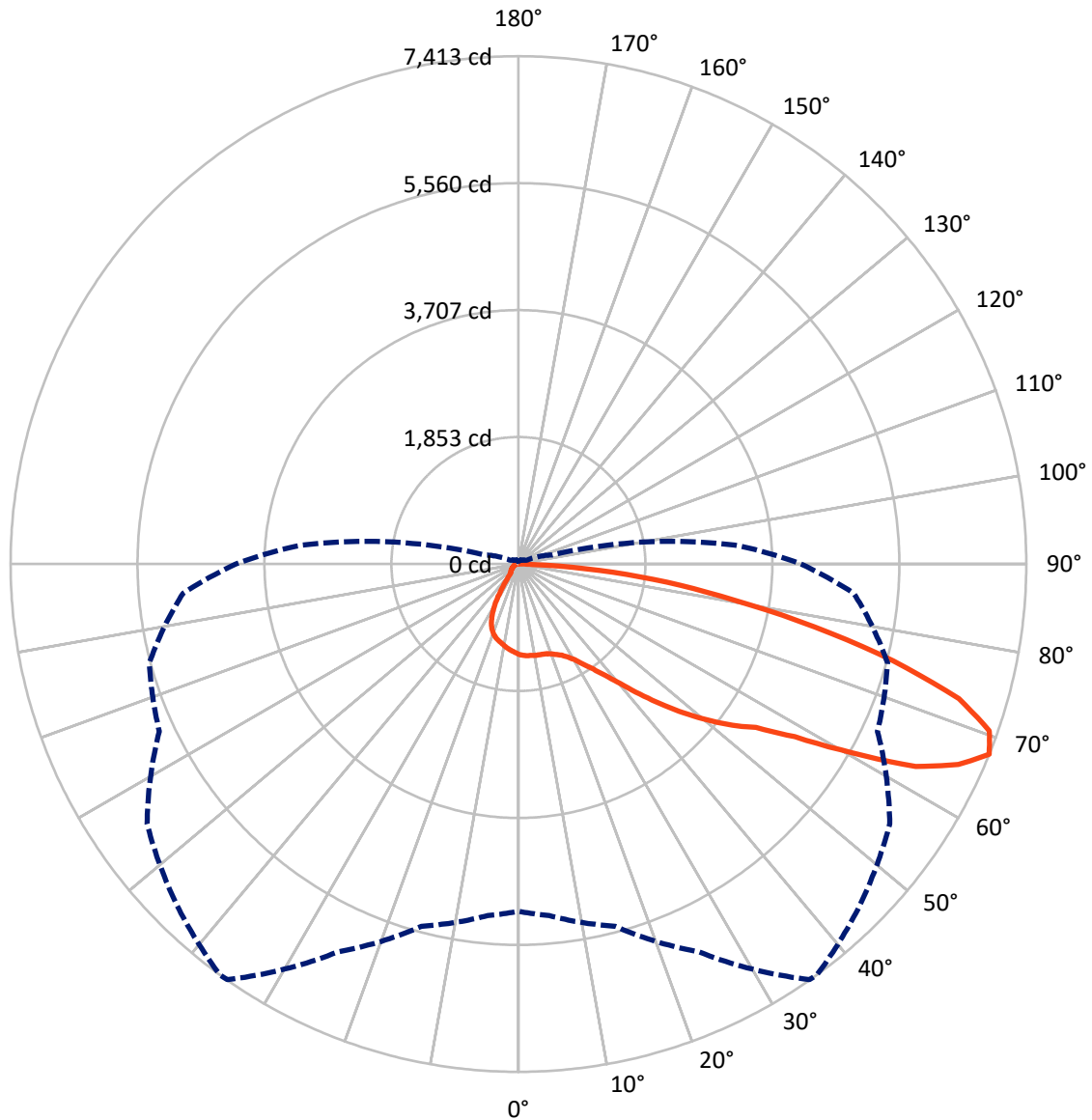
✕ Max cd
 - - - 1/2 Max cd



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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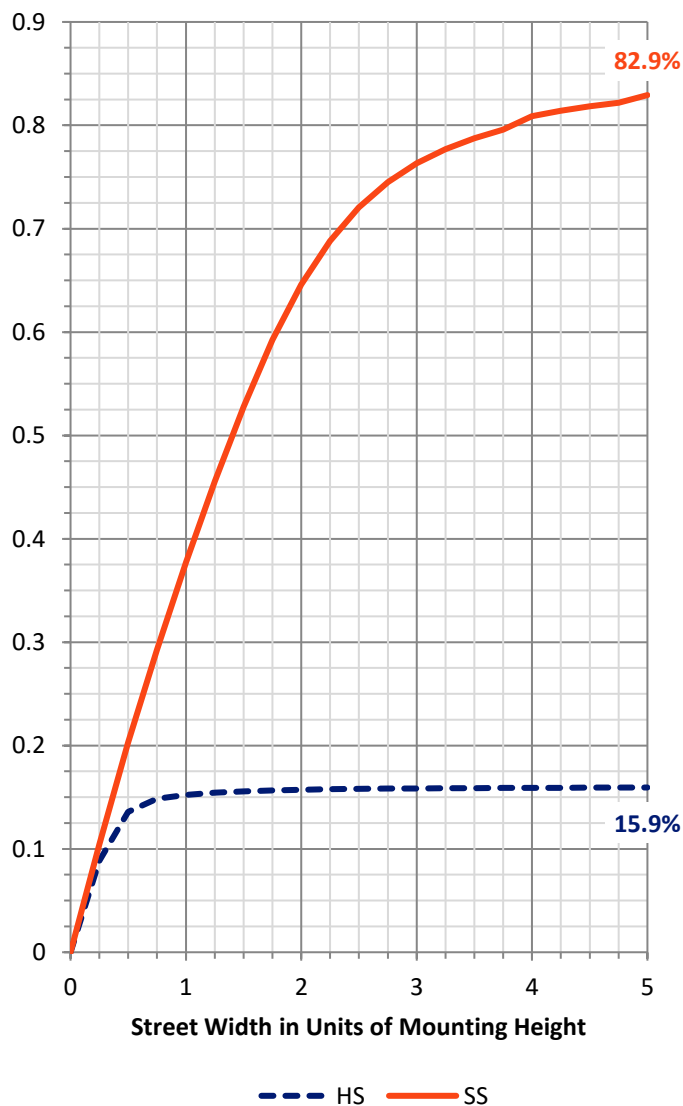
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1928.1	0.0	1928.1
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	10027.9	0.0	10027.9
	% Fixture	83.9	0.0	83.9
Total	Lumens	11956.0	0.0	11956.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.7	1.0
10°-20°	369.4	3.1
20°-30°	611.0	5.1
30°-40°	969.2	8.1
40°-50°	1672.8	14.0
50°-60°	2479.5	20.7
60°-70°	3205.7	26.8
70°-80°	2164.0	18.1
80°-90°	359.7	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°	11956.0	100.0
0°-180°	11956.0	100.0

Coefficient of Utilization



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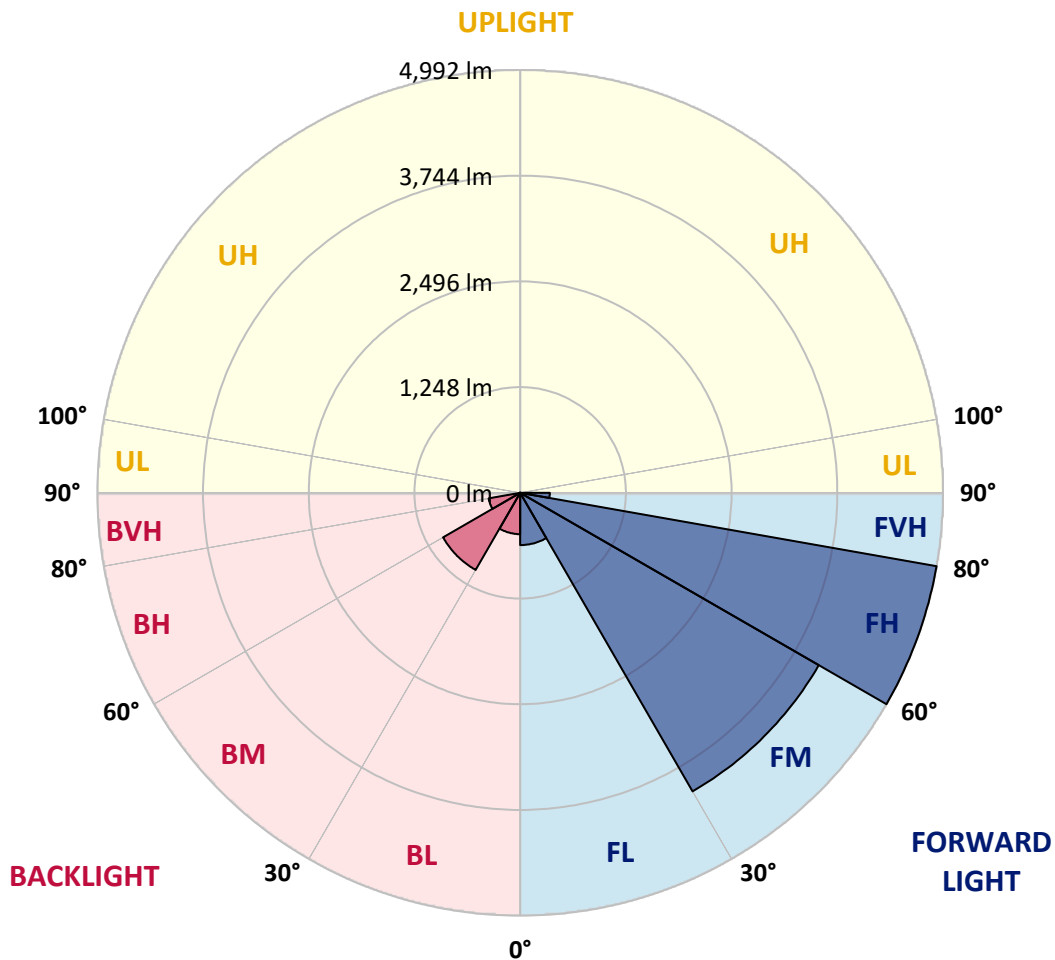
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	617.2	5.2			
FM	(30°-60°)	4069.6	34.0			
FH	(60°-80°)	4991.6	41.8			G2/5000
FVH	(80°-90°)	349.5	2.9			G3/500
BL	(0°-30°)	488.0	4.1	B1/500		
BM	(30°-60°)	1051.9	8.8	B2/2500		
BH	(60°-80°)	378.0	3.2	B1/500		G1/500
BVH	(80°-90°)	10.2	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°	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4
2.5°	1327.1	1340.0	1338.5	1337.1	1337.1	1335.7	1327.1	1318.5	1322.8	1321.4	1319.9
5°	1332.8	1345.7	1344.2	1342.8	1342.8	1344.2	1331.4	1321.4	1324.2	1327.1	1325.7
7.5°	1335.7	1347.1	1344.2	1342.8	1341.4	1345.7	1335.7	1337.1	1340.0	1340.0	1340.0
10°	1340.0	1348.5	1348.5	1350.0	1351.4	1355.7	1351.4	1355.7	1367.1	1364.3	1371.4
12.5°	1328.5	1338.5	1342.8	1350.0	1357.1	1360.0	1364.3	1375.7	1390.0	1397.2	1404.3
15°	1324.2	1334.2	1341.4	1350.0	1361.4	1364.3	1375.7	1395.7	1412.9	1427.2	1442.9
17.5°	1338.5	1350.0	1360.0	1365.7	1371.4	1375.7	1387.1	1412.9	1442.9	1468.7	1491.5
20°	1365.7	1377.1	1388.6	1394.3	1398.6	1401.4	1410.0	1434.3	1472.9	1513.0	1545.9
22.5°	1397.2	1408.6	1421.5	1425.8	1435.8	1435.8	1437.2	1461.5	1508.7	1563.0	1603.1
25°	1431.5	1438.6	1450.1	1457.2	1471.5	1474.4	1478.7	1500.1	1558.7	1620.2	1683.2
27.5°	1471.5	1485.8	1497.3	1505.8	1534.4	1535.9	1533.0	1560.2	1617.4	1693.2	1781.8
30°	1544.4	1560.2	1571.6	1585.9	1623.1	1621.7	1640.3	1668.9	1701.8	1784.7	1903.4
32.5°	1660.3	1661.7	1667.4	1686.0	1738.9	1744.7	1780.4	1831.9	1897.7	1950.6	2076.4
35°	1871.9	1864.8	1847.6	1844.8	1880.5	1883.4	1953.4	2062.1	2205.1	2381.0	2575.5
37.5°	2119.3	2137.9	2117.9	2056.4	2062.1	2063.6	2146.5	2285.2	2551.2	2991.7	3176.1
40°	2554.1	2564.1	2439.7	2342.4	2308.1	2292.4	2335.3	2545.5	2885.8	3459.3	3589.4
42.5°	2937.3	2937.3	2821.5	2671.3	2584.1	2595.5	2582.7	2791.4	3229.0	3865.4	3912.6
45°	3320.6	3307.7	3201.9	3076.0	2923.0	2913.0	2880.1	3040.3	3545.1	4157.1	4158.6
47.5°	3678.1	3708.1	3549.4	3410.7	3254.8	3247.6	3189.0	3313.4	3848.2	4413.1	4374.5
50°	4054.2	4095.6	3896.9	3741.0	3572.2	3582.3	3533.6	3620.9	4150.0	4651.9	4581.9
52.5°	4589.0	4511.8	4274.4	4058.5	3884.0	3912.6	3862.5	3914.0	4463.2	4842.1	4696.3
55°	5162.5	5025.2	4827.8	4466.0	4212.9	4210.0	4172.9	4234.4	4779.2	5059.5	4826.4
57.5°	5469.9	5511.4	5465.6	5172.5	4763.5	4756.3	4533.2	4540.4	5069.5	5245.4	5008.0
60°	5820.3	5871.8	5971.9	5788.8	5584.3	5590.0	5033.8	4867.9	5375.5	5394.1	5022.3
62.5°	6006.2	6011.9	6242.1	6306.5	6472.4	6509.6	6087.7	5268.3	5578.6	5508.5	5046.6
65°	5677.3	5687.3	6130.6	6455.2	7008.6	7058.7	6877.1	6043.4	5730.2	5568.6	5023.7
67.5°	5069.5	5151.0	5474.2	6249.3	7406.2	7413.3	7047.3	6616.8	5783.1	5577.2	4913.6
70°	4248.7	4220.1	4629.1	5560.0	7344.7	7291.8	6972.9	6682.6	5744.5	5459.9	4411.7
72.5°	3150.4	3107.5	3529.3	4470.3	6625.4	6725.5	6639.7	6297.9	5598.6	5022.3	3580.8
75°	2156.5	2206.6	2585.5	3370.6	5502.8	5654.4	6033.4	6000.5	4980.8	4162.9	2451.1
77.5°	1475.8	1497.3	1821.9	2508.3	4361.6	4420.3	5048.1	4847.8	3662.3	2558.3	818.0
80°	961.0	953.8	1245.6	1786.1	3197.6	3190.4	3605.1	3067.4	1973.5	872.3	113.0
82.5°	536.3	567.7	746.5	1174.1	2160.8	2183.7	2250.9	1677.4	759.4	101.5	71.5
85°	301.7	314.6	429.0	665.0	1132.6	1189.8	1003.9	616.3	135.9	55.8	41.5
87.5°	71.5	68.6	137.3	254.5	188.8	204.5	97.2	28.6	14.3	10.0	10.0
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°	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4
2.5°	1319.9	1317.1	1314.2	1308.5	1304.2	1291.3	1292.8	1301.3	1292.8	1307.1	1298.5
5°	1322.8	1318.5	1311.3	1294.2	1281.3	1271.3	1268.4	1267.0	1255.6	1268.4	1262.7
7.5°	1334.2	1329.9	1314.2	1295.6	1277.0	1247.0	1242.7	1237.0	1215.5	1224.1	1217.0
10°	1361.4	1355.7	1328.5	1302.8	1274.2	1234.1	1211.2	1194.1	1169.8	1172.6	1165.5
12.5°	1395.7	1390.0	1358.5	1315.6	1275.6	1219.8	1179.8	1146.9	1111.1	1111.1	1104.0
15°	1435.8	1430.0	1394.3	1344.2	1281.3	1208.4	1148.3	1095.4	1038.2	1031.1	1022.5
17.5°	1490.1	1481.5	1440.1	1375.7	1297.0	1198.4	1116.9	1038.2	951.0	923.8	909.5
20°	1545.9	1535.9	1500.1	1420.0	1318.5	1188.4	1071.1	963.8	850.9	795.1	785.1
22.5°	1617.4	1614.5	1570.2	1458.6	1325.7	1166.9	1013.9	880.9	729.3	652.1	636.4
25°	1701.8	1697.5	1628.8	1488.7	1317.1	1124.0	932.4	762.2	592.0	514.8	497.7
27.5°	1801.9	1790.4	1678.9	1495.8	1292.8	1056.8	828.0	609.2	437.6	371.8	358.9
30°	1907.7	1890.5	1731.8	1497.3	1244.1	973.9	690.7	447.6	310.3	263.1	263.1
32.5°	2085.0	2026.4	1783.3	1477.2	1174.1	855.2	526.3	301.7	217.4	198.8	198.8
35°	2465.4	2325.3	1864.8	1451.5	1082.5	707.9	357.5	204.5	181.6	181.6	180.2
37.5°	3036.0	2775.7	2003.5	1408.6	958.1	526.3	236.0	168.7	173.0	173.0	173.0
40°	3400.6	3127.5	2192.3	1341.4	815.1	357.5	168.7	160.2	163.0	165.9	165.9
42.5°	3741.0	3433.5	2381.0	1248.4	657.8	228.8	157.3	150.2	151.6	151.6	153.0
45°	3956.9	3660.9	2521.2	1149.8	484.8	163.0	154.4	141.6	137.3	137.3	140.1
47.5°	4157.1	3809.6	2582.7	1019.6	313.2	153.0	147.3	131.6	125.8	124.4	124.4
50°	4357.3	3962.7	2617.0	865.2	195.9	147.3	135.9	120.1	114.4	113.0	113.0
52.5°	4446.0	4011.3	2539.8	690.7	145.9	141.6	127.3	110.1	101.5	101.5	101.5
55°	4539.0	4101.4	2409.6	494.8	138.7	131.6	117.3	98.7	91.5	94.4	94.4
57.5°	4641.9	4037.0	2270.9	321.8	137.3	118.7	104.4	88.7	82.9	85.8	87.2
60°	4610.5	4052.7	2072.1	215.9	131.6	108.7	94.4	78.7	74.4	74.4	74.4
62.5°	4610.5	3931.2	1746.1	164.5	120.1	100.1	87.2	72.9	65.8	62.9	60.1
65°	4488.9	3643.8	1275.6	143.0	107.3	93.0	78.7	64.4	55.8	51.5	50.1
67.5°	4121.4	3167.5	513.4	130.1	98.7	85.8	72.9	58.6	48.6	42.9	41.5
70°	3503.6	2338.1	147.3	115.8	100.1	80.1	68.6	51.5	42.9	35.8	34.3
72.5°	2597.0	1235.6	120.1	91.5	88.7	68.6	64.4	48.6	37.2	30.0	28.6
75°	1311.3	168.7	103.0	65.8	68.6	71.5	61.5	42.9	34.3	24.3	22.9
77.5°	135.9	100.1	90.1	44.3	48.6	50.1	52.9	40.0	30.0	20.0	18.6
80°	84.4	75.8	88.7	38.6	28.6	34.3	35.8	31.5	24.3	15.7	15.7
82.5°	60.1	64.4	65.8	24.3	21.5	20.0	18.6	18.6	21.5	14.3	14.3
85°	41.5	42.9	27.2	15.7	14.3	12.9	11.4	11.4	10.0	11.4	10.0
87.5°	10.0	8.6	8.6	8.6	7.2	7.2	5.7	5.7	5.7	5.7	7.2
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)