

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: P509072

Luminaire Tested: **VERD-CA2-100-730-U-T4-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509072
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-CA2-100-730-U-T4-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1370mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12409 lumens
Efficiency: N/A
Efficacy: 120.0 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

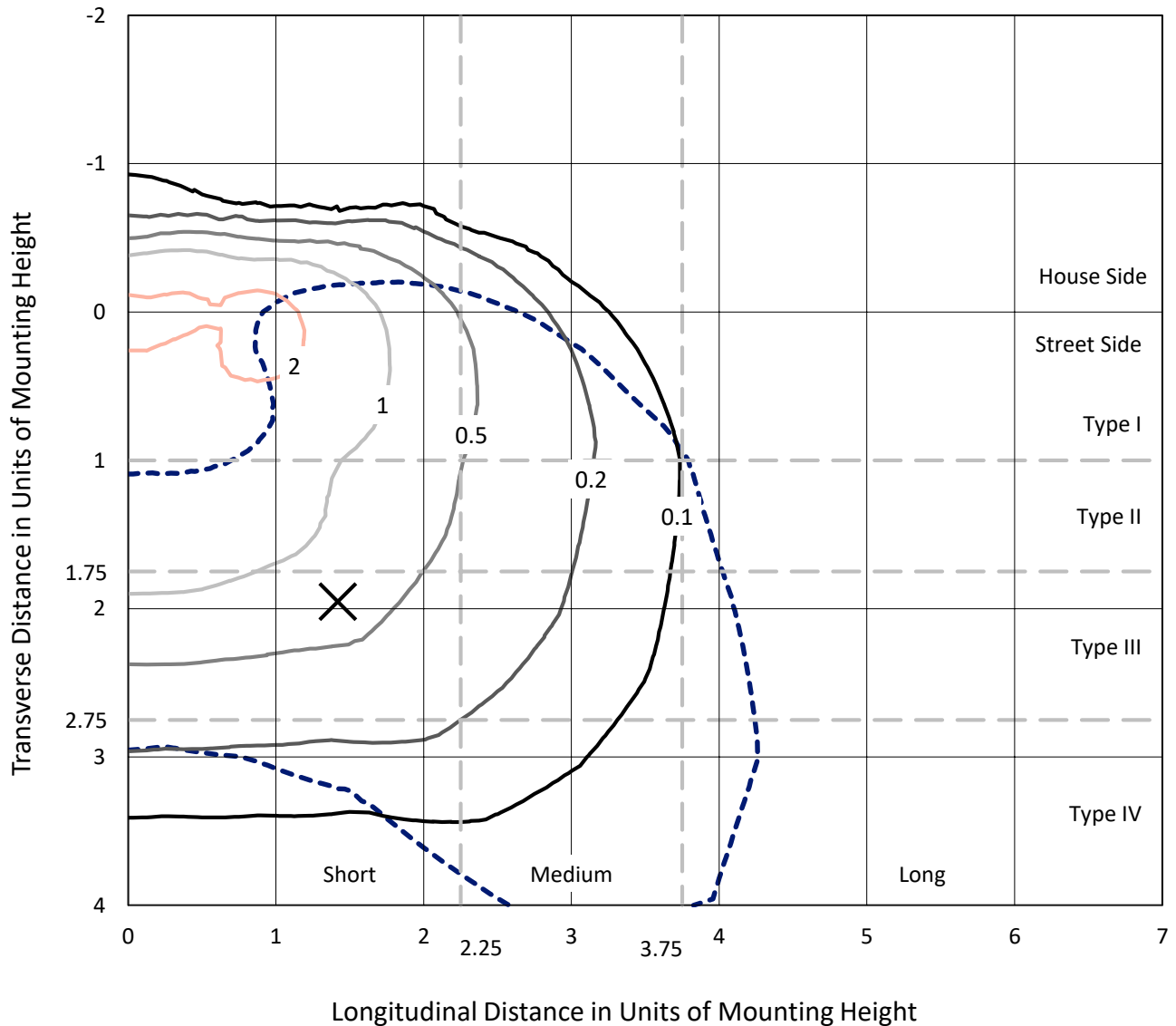
Input Watts (W): 103.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

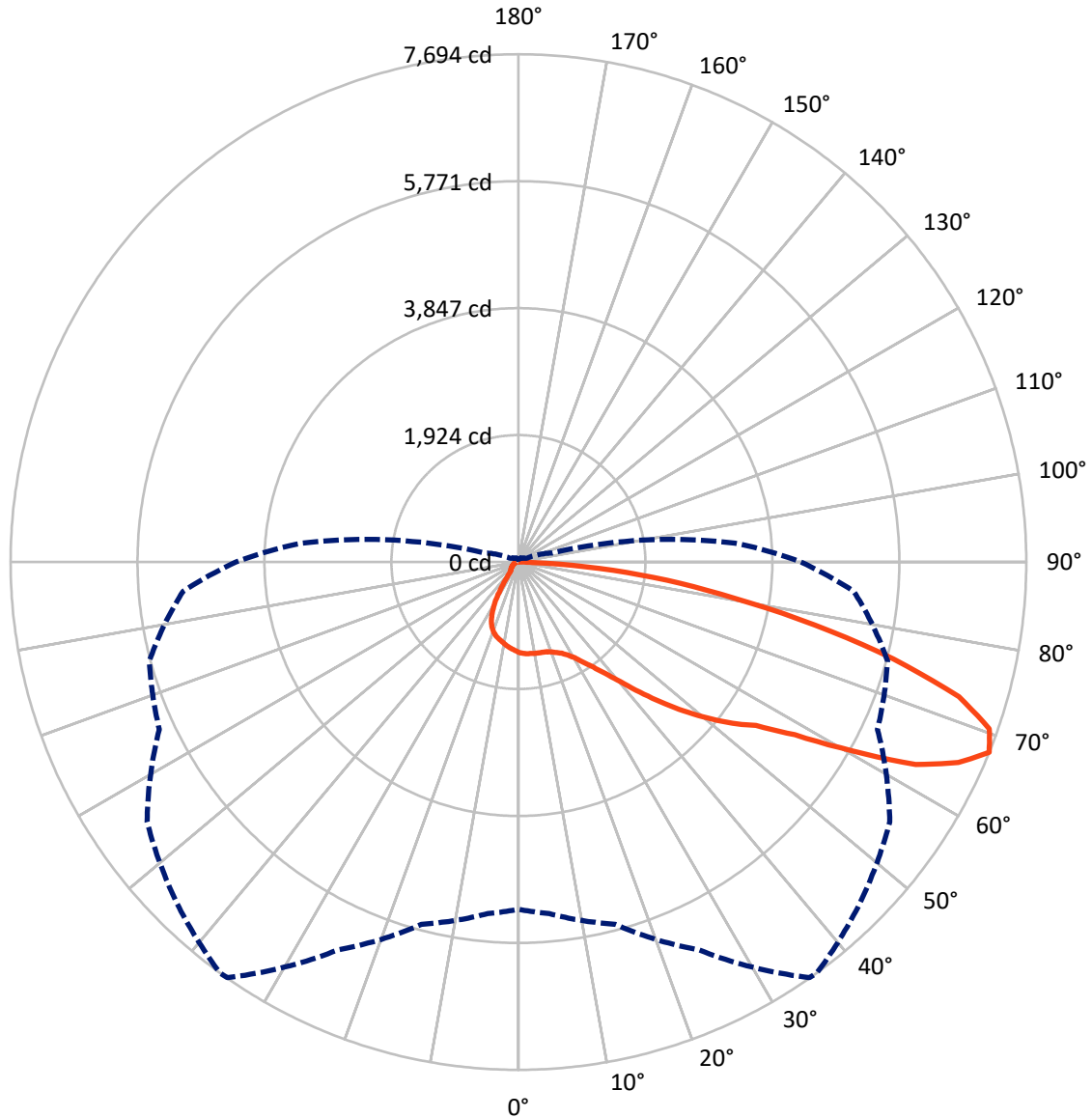
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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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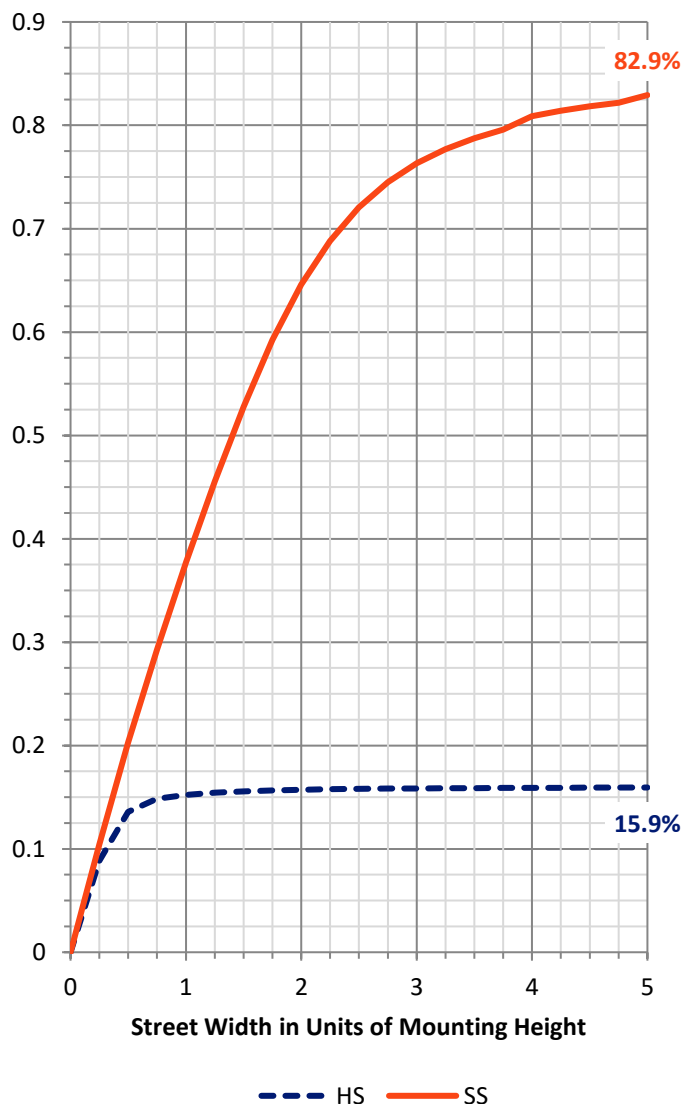
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2001.2	0.0	2001.2
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	10407.8	0.0	10407.8
	% Fixture	83.9	0.0	83.9
Total	Lumens	12409.0	0.0	12409.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.4	1.0
10°-20°	383.4	3.1
20°-30°	634.1	5.1
30°-40°	1005.9	8.1
40°-50°	1736.2	14.0
50°-60°	2573.5	20.7
60°-70°	3327.2	26.8
70°-80°	2246.0	18.1
80°-90°	373.3	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°	12409.0	100.0
0°-180°	12409.0	100.0

Coefficient of Utilization



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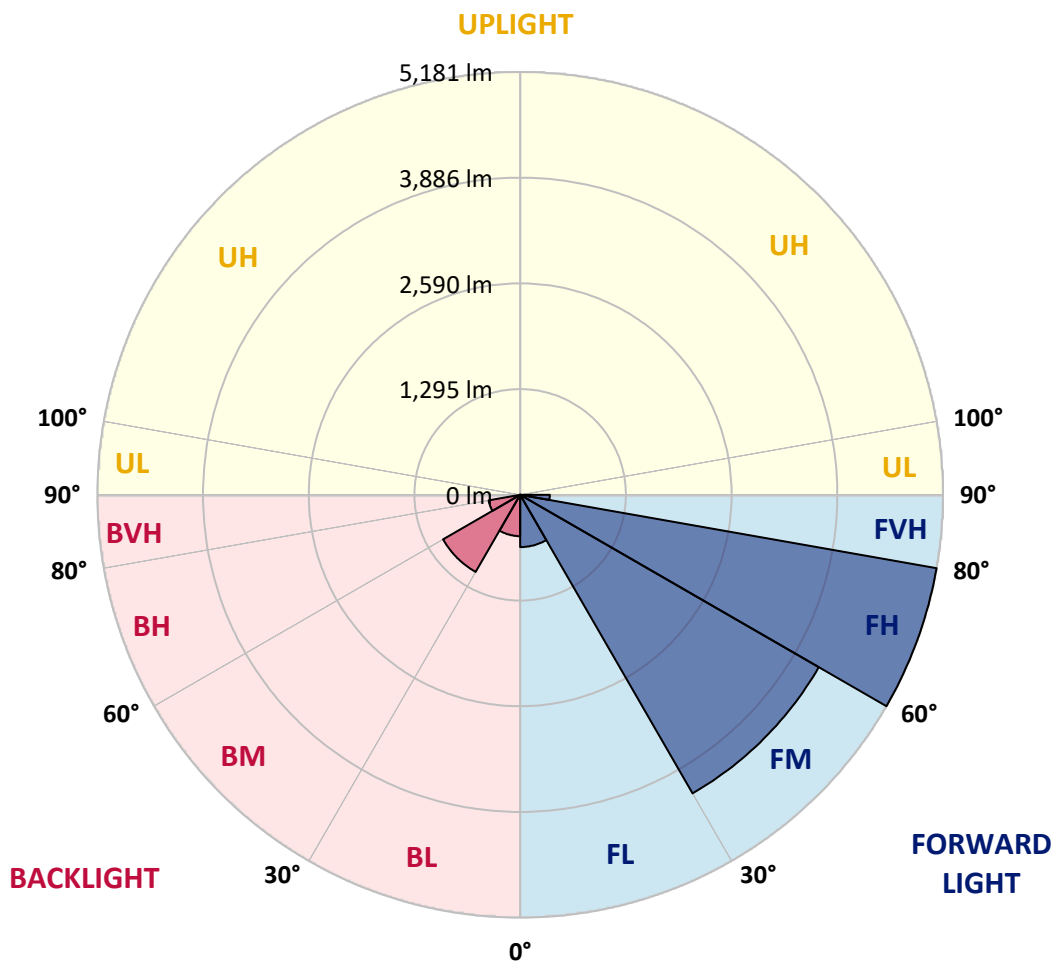
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	640.5	5.2			
FM (30°-60°)	4223.8	34.0			
FH (60°-80°)	5180.8	41.8			G3/7500
FVH (80°-90°)	362.7	2.9			G3/500
BL (0°-30°)	506.4	4.1	B2/1000		
BM (30°-60°)	1091.8	8.8	B2/2500		
BH (60°-80°)	392.4	3.2	B1/500		G1/500
BVH (80°-90°)	10.6	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°	1371.4	1371.4	1371.4	1371.4	1371.4	1371.4	1371.4	1371.4	1371.4	1371.4	1371.4
2.5°	1377.4	1390.7	1389.2	1387.8	1387.8	1386.3	1377.4	1368.5	1372.9	1371.4	1369.9
5°	1383.3	1396.7	1395.2	1393.7	1393.7	1395.2	1381.8	1371.4	1374.4	1377.4	1375.9
7.5°	1386.3	1398.1	1395.2	1393.7	1392.2	1396.7	1386.3	1387.8	1390.7	1390.7	1390.7
10°	1390.7	1399.6	1399.6	1401.1	1402.6	1407.0	1402.6	1407.0	1418.9	1416.0	1423.4
12.5°	1378.8	1389.2	1393.7	1401.1	1408.5	1411.5	1416.0	1427.8	1442.7	1450.1	1457.5
15°	1374.4	1384.8	1392.2	1401.1	1413.0	1416.0	1427.8	1448.6	1466.4	1481.3	1497.6
17.5°	1389.2	1401.1	1411.5	1417.4	1423.4	1427.8	1439.7	1466.4	1497.6	1524.3	1548.0
20°	1417.4	1429.3	1441.2	1447.1	1451.6	1454.5	1463.4	1488.7	1528.8	1570.3	1604.4
22.5°	1450.1	1462.0	1475.3	1479.8	1490.2	1490.2	1491.6	1516.9	1565.9	1622.3	1663.8
25°	1485.7	1493.1	1505.0	1512.4	1527.3	1530.2	1534.7	1557.0	1617.8	1681.6	1746.9
27.5°	1527.3	1542.1	1554.0	1562.9	1592.6	1594.1	1591.1	1619.3	1678.7	1757.3	1849.3
30°	1603.0	1619.3	1631.2	1646.0	1684.6	1683.1	1702.4	1732.1	1766.2	1852.3	1975.5
32.5°	1723.2	1724.7	1730.6	1749.9	1804.8	1810.8	1847.9	1901.3	1969.6	2024.5	2155.1
35°	1942.9	1935.4	1917.6	1914.7	1951.8	1954.7	2027.5	2140.3	2288.7	2471.2	2673.1
37.5°	2199.6	2218.9	2198.1	2134.3	2140.3	2141.7	2227.8	2371.8	2647.9	3105.0	3296.5
40°	2650.8	2661.2	2532.1	2431.2	2395.5	2379.2	2423.7	2641.9	2995.2	3590.3	3725.4
42.5°	3048.6	3048.6	2928.4	2772.5	2682.0	2693.9	2680.5	2897.2	3351.4	4011.9	4060.8
45°	3446.4	3433.0	3323.2	3192.6	3033.8	3023.4	2989.2	3155.5	3679.4	4314.6	4316.1
47.5°	3817.4	3848.6	3683.8	3539.9	3378.1	3370.7	3309.8	3439.0	3994.1	4580.3	4540.2
50°	4207.8	4250.8	4044.5	3882.7	3707.6	3718.0	3667.5	3758.1	4307.2	4828.2	4755.5
52.5°	4762.9	4682.7	4436.4	4212.2	4031.2	4060.8	4008.9	4062.3	4632.3	5025.6	4874.2
55°	5358.1	5215.6	5010.7	4635.2	4372.5	4369.6	4331.0	4394.8	4960.3	5251.2	5009.3
57.5°	5677.2	5720.2	5672.7	5368.4	4944.0	4936.5	4705.0	4712.4	5261.6	5444.1	5197.8
60°	6040.8	6094.2	6198.1	6008.1	5795.9	5801.8	5224.5	5052.3	5579.2	5598.5	5212.6
62.5°	6233.8	6239.7	6478.6	6545.4	6717.6	6756.2	6318.4	5467.9	5790.0	5717.2	5237.8
65°	5892.4	5902.8	6362.9	6699.8	7274.2	7326.1	7137.6	6272.3	5947.3	5779.6	5214.1
67.5°	5261.6	5346.2	5681.6	6486.1	7686.8	7694.2	7314.3	6867.5	6002.2	5788.5	5099.8
70°	4409.6	4380.0	4804.4	5770.7	7623.0	7568.1	7237.1	6935.8	5962.1	5666.8	4578.8
72.5°	3269.8	3225.2	3663.1	4639.7	6876.4	6980.3	6891.3	6536.5	5810.7	5212.6	3716.5
75°	2238.2	2290.2	2683.5	3498.3	5711.3	5868.6	6262.0	6227.8	5169.6	4320.6	2544.0
77.5°	1531.7	1554.0	1890.9	2603.3	4526.9	4587.7	5239.3	5031.5	3801.1	2655.3	849.0
80°	997.4	990.0	1292.8	1853.8	3318.7	3311.3	3741.7	3183.7	2048.2	905.4	117.3
82.5°	556.6	589.2	774.8	1218.5	2242.7	2266.4	2336.2	1741.0	788.1	105.4	74.2
85°	313.2	326.5	445.3	690.2	1175.5	1234.9	1041.9	639.7	141.0	57.9	43.0
87.5°	74.2	71.2	142.5	264.2	195.9	212.2	100.9	29.7	14.8	10.4	10.4
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°	1371.4	1371.4	1371.4	1371.4	1371.4	1371.4	1371.4	1371.4	1371.4	1371.4	1371.4
2.5°	1369.9	1367.0	1364.0	1358.1	1353.6	1340.3	1341.7	1350.6	1341.7	1356.6	1347.7
5°	1372.9	1368.5	1361.0	1343.2	1329.9	1319.5	1316.5	1315.0	1303.2	1316.5	1310.6
7.5°	1384.8	1380.3	1364.0	1344.7	1325.4	1294.2	1289.8	1283.9	1261.6	1270.5	1263.1
10°	1413.0	1407.0	1378.8	1352.1	1322.4	1280.9	1257.1	1239.3	1214.1	1217.1	1209.6
12.5°	1448.6	1442.7	1410.0	1365.5	1323.9	1266.0	1224.5	1190.3	1153.2	1153.2	1145.8
15°	1490.2	1484.2	1447.1	1395.2	1329.9	1254.2	1191.8	1136.9	1077.5	1070.1	1061.2
17.5°	1546.6	1537.7	1494.6	1427.8	1346.2	1243.8	1159.2	1077.5	987.0	958.8	944.0
20°	1604.4	1594.1	1557.0	1473.8	1368.5	1233.4	1111.7	1000.4	883.1	825.2	814.8
22.5°	1678.7	1675.7	1629.7	1513.9	1375.9	1211.1	1052.3	914.3	757.0	676.8	660.5
25°	1766.2	1761.8	1690.5	1545.1	1367.0	1166.6	967.7	791.1	614.5	534.3	516.5
27.5°	1870.1	1858.3	1742.5	1552.5	1341.7	1096.8	859.4	632.3	454.2	385.9	372.5
30°	1980.0	1962.1	1797.4	1554.0	1291.3	1010.8	716.9	464.6	322.1	273.1	273.1
32.5°	2164.0	2103.1	1850.8	1533.2	1218.5	887.6	546.2	313.2	225.6	206.3	206.3
35°	2558.8	2413.4	1935.4	1506.5	1123.6	734.7	371.1	212.2	188.5	188.5	187.0
37.5°	3151.0	2880.9	2079.4	1462.0	994.4	546.2	244.9	175.1	179.6	179.6	179.6
40°	3529.5	3246.0	2275.3	1392.2	846.0	371.1	175.1	166.2	169.2	172.2	172.2
42.5°	3882.7	3563.6	2471.2	1295.7	682.7	237.5	163.3	155.8	157.3	157.3	158.8
45°	4106.9	3799.6	2616.7	1193.3	503.2	169.2	160.3	146.9	142.5	142.5	145.5
47.5°	4314.6	3954.0	2680.5	1058.3	325.0	158.8	152.9	136.5	130.6	129.1	129.1
50°	4522.4	4112.8	2716.1	898.0	203.3	152.9	141.0	124.7	118.7	117.3	117.3
52.5°	4614.5	4163.3	2636.0	716.9	151.4	146.9	132.1	114.3	105.4	105.4	105.4
55°	4710.9	4256.8	2500.9	513.5	144.0	136.5	121.7	102.4	95.0	98.0	98.0
57.5°	4817.8	4190.0	2357.0	334.0	142.5	123.2	108.3	92.0	86.1	89.1	90.5
60°	4785.1	4206.3	2150.6	224.1	136.5	112.8	98.0	81.6	77.2	77.2	77.2
62.5°	4785.1	4080.1	1812.2	170.7	124.7	103.9	90.5	75.7	68.3	65.3	62.3
65°	4659.0	3781.8	1323.9	148.4	111.3	96.5	81.6	66.8	57.9	53.4	51.9
67.5°	4277.5	3287.6	532.8	135.1	102.4	89.1	75.7	60.9	50.5	44.5	43.0
70°	3636.4	2426.7	152.9	120.2	103.9	83.1	71.2	53.4	44.5	37.1	35.6
72.5°	2695.4	1282.4	124.7	95.0	92.0	71.2	66.8	50.5	38.6	31.2	29.7
75°	1361.0	175.1	106.9	68.3	71.2	74.2	63.8	44.5	35.6	25.2	23.7
77.5°	141.0	103.9	93.5	46.0	50.5	51.9	54.9	41.6	31.2	20.8	19.3
80°	87.6	78.7	92.0	40.1	29.7	35.6	37.1	32.7	25.2	16.3	16.3
82.5°	62.3	66.8	68.3	25.2	22.3	20.8	19.3	19.3	22.3	14.8	14.8
85°	43.0	44.5	28.2	16.3	14.8	13.4	11.9	11.9	10.4	11.9	10.4
87.5°	10.4	8.9	8.9	8.9	7.4	7.4	5.9	5.9	5.9	5.9	7.4
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)