

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: P509080

Luminaire Tested: **VERD-CA2-100-740-U-T4-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509080
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-CA2-100-740-U-T4-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1370mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12638 lumens
Efficiency: N/A
Efficacy: 122.2 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

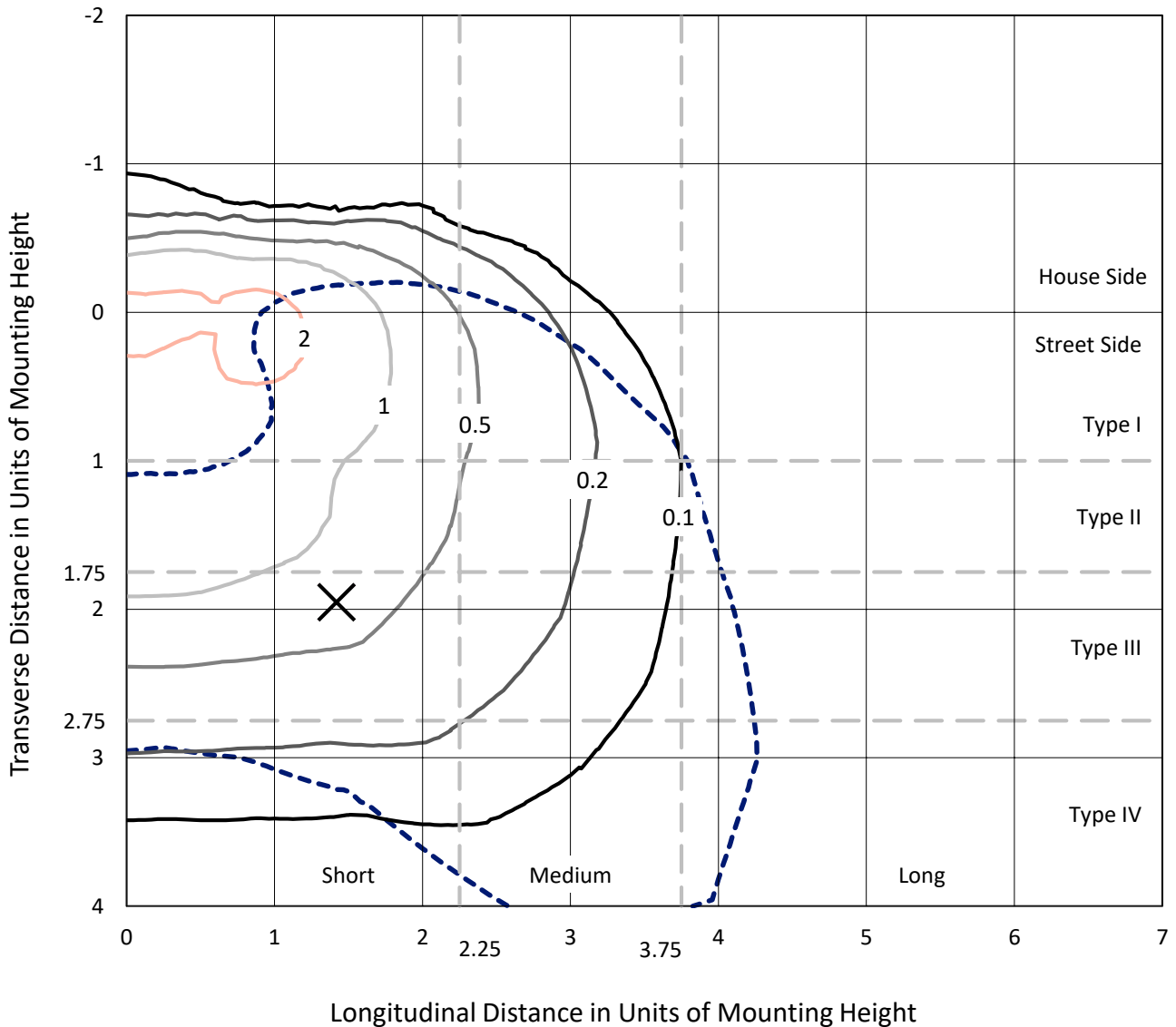
Input Watts (W): 103.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

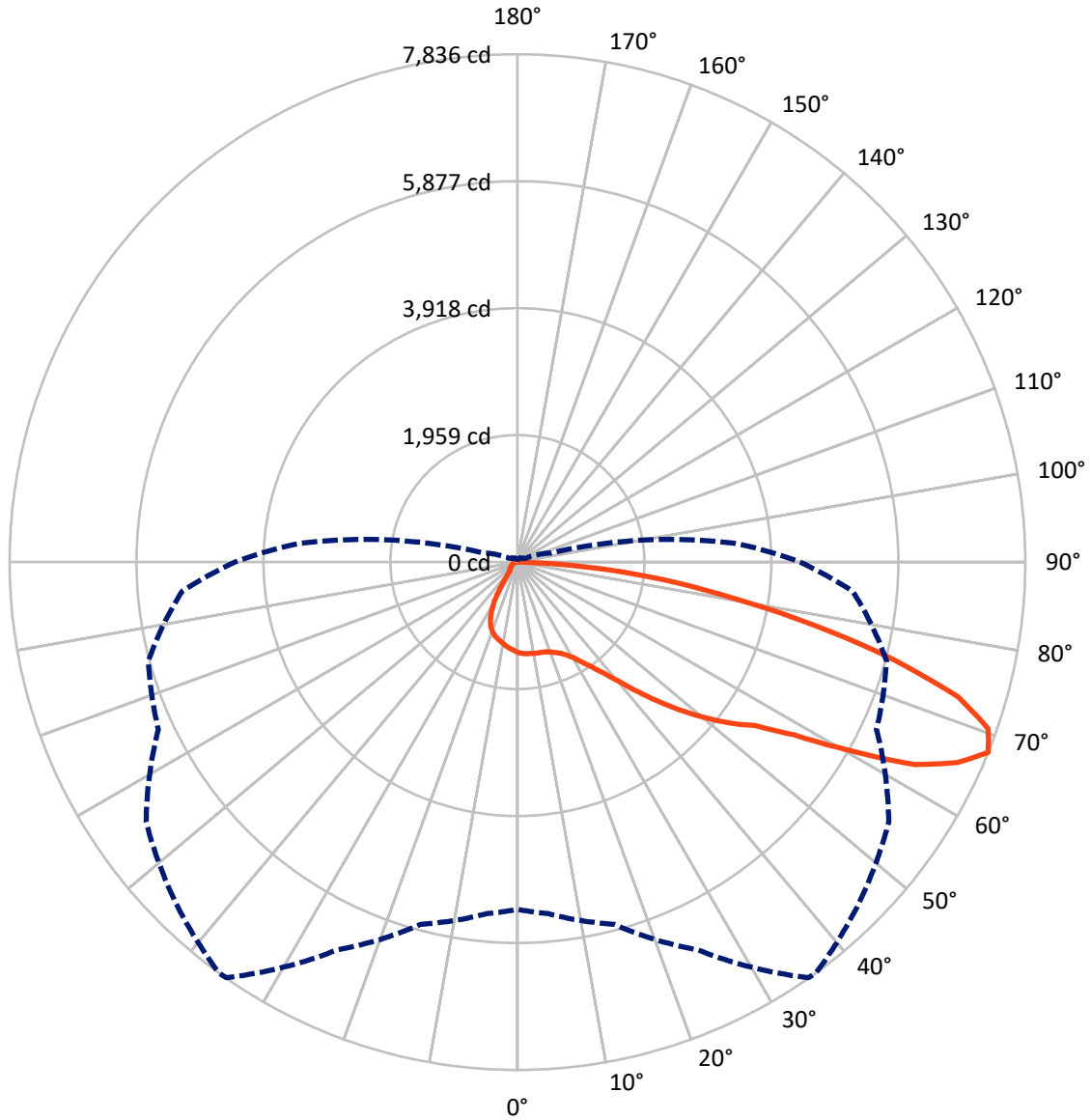
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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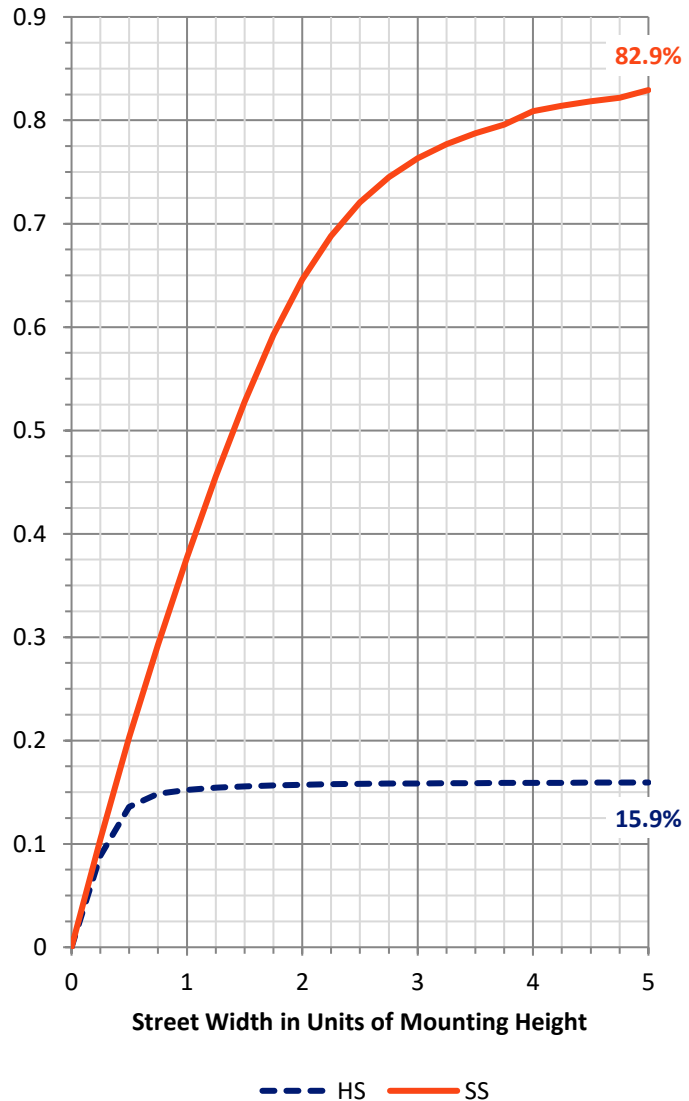
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2038.1	0.0	2038.1
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	10599.9	0.0	10599.9
	% Fixture	83.9	0.0	83.9
Total	Lumens	12638.0	0.0	12638.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.8	1.0
10°-20°	390.5	3.1
20°-30°	645.8	5.1
30°-40°	1024.4	8.1
40°-50°	1768.2	14.0
50°-60°	2621.0	20.7
60°-70°	3388.6	26.8
70°-80°	2287.4	18.1
80°-90°	380.2	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°	12638.0	100.0
0°-180°	12638.0	100.0



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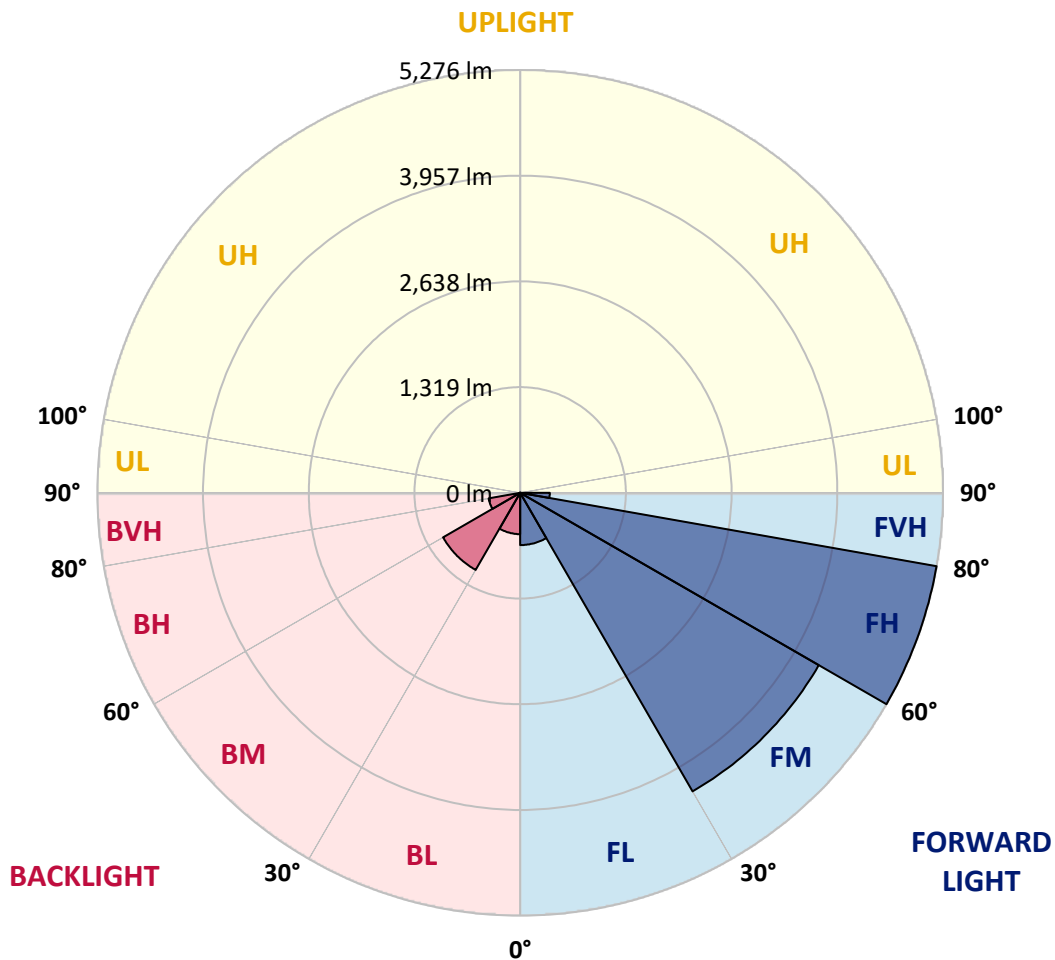
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	652.4	5.2			
FM (30°-60°)	4301.7	34.0			
FH (60°-80°)	5276.4	41.8			G3/7500
FVH (80°-90°)	369.4	2.9			G3/500
BL (0°-30°)	515.8	4.1	B2/1000		
BM (30°-60°)	1111.9	8.8	B2/2500		
BH (60°-80°)	399.6	3.2	B1/500		G1/500
BVH (80°-90°)	10.8	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°	1396.7	1396.7	1396.7	1396.7	1396.7	1396.7	1396.7	1396.7	1396.7	1396.7	1396.7
2.5°	1402.8	1416.4	1414.9	1413.4	1413.4	1411.9	1402.8	1393.7	1398.2	1396.7	1395.2
5°	1408.8	1422.4	1420.9	1419.4	1419.4	1420.9	1407.3	1396.7	1399.8	1402.8	1401.3
7.5°	1411.9	1423.9	1420.9	1419.4	1417.9	1422.4	1411.9	1413.4	1416.4	1416.4	1416.4
10°	1416.4	1425.5	1425.5	1427.0	1428.5	1433.0	1428.5	1433.0	1445.1	1442.1	1449.6
12.5°	1404.3	1414.9	1419.4	1427.0	1434.5	1437.5	1442.1	1454.2	1469.3	1476.8	1484.4
15°	1399.8	1410.3	1417.9	1427.0	1439.1	1442.1	1454.2	1475.3	1493.5	1508.6	1525.2
17.5°	1414.9	1427.0	1437.5	1443.6	1449.6	1454.2	1466.3	1493.5	1525.2	1552.4	1576.6
20°	1443.6	1455.7	1467.8	1473.8	1478.4	1481.4	1490.5	1516.2	1557.0	1599.3	1634.1
22.5°	1476.8	1488.9	1502.5	1507.1	1517.7	1517.7	1519.2	1544.9	1594.8	1652.2	1694.5
25°	1513.1	1520.7	1532.8	1540.3	1555.5	1558.5	1563.0	1585.7	1647.7	1712.7	1779.2
27.5°	1555.5	1570.6	1582.7	1591.7	1622.0	1623.5	1620.5	1649.2	1709.6	1789.8	1883.5
30°	1632.5	1649.2	1661.3	1676.4	1715.7	1714.2	1733.8	1764.1	1798.8	1886.5	2012.0
32.5°	1755.0	1756.5	1762.5	1782.2	1838.1	1844.2	1882.0	1936.4	2005.9	2061.8	2194.9
35°	1978.7	1971.1	1953.0	1950.0	1987.8	1990.8	2064.9	2179.8	2330.9	2516.8	2722.4
37.5°	2240.2	2259.9	2238.7	2173.7	2179.8	2181.3	2268.9	2415.6	2696.7	3162.3	3357.3
40°	2699.7	2710.3	2578.8	2476.0	2439.7	2423.1	2468.5	2690.7	3050.4	3656.6	3794.2
42.5°	3104.9	3104.9	2982.4	2823.7	2731.5	2743.6	2730.0	2950.7	3413.2	4085.9	4135.8
45°	3510.0	3496.4	3384.5	3251.5	3089.7	3079.2	3044.4	3213.7	3747.3	4394.3	4395.8
47.5°	3887.9	3919.6	3751.8	3605.2	3440.4	3432.9	3370.9	3502.4	4067.8	4664.8	4624.0
50°	4285.4	4329.3	4119.2	3954.4	3776.0	3786.6	3735.2	3827.4	4386.7	4917.3	4843.2
52.5°	4850.8	4769.2	4518.2	4290.0	4105.6	4135.8	4082.9	4137.3	4717.8	5118.3	4964.1
55°	5456.9	5311.8	5103.2	4720.8	4453.2	4450.2	4410.9	4475.9	5051.8	5348.1	5101.7
57.5°	5781.9	5825.8	5777.4	5467.5	5035.2	5027.6	4791.8	4799.4	5358.7	5544.6	5293.7
60°	6152.3	6206.7	6312.5	6119.0	5902.9	5908.9	5320.9	5145.5	5682.2	5701.8	5308.8
62.5°	6348.8	6354.8	6598.2	6666.2	6841.6	6880.9	6435.0	5568.8	5896.8	5822.7	5334.5
65°	6001.1	6011.7	6480.3	6823.4	7408.4	7461.3	7269.4	6388.1	6057.0	5886.2	5310.3
67.5°	5358.7	5444.8	5786.5	6605.8	7828.7	7836.2	7449.2	6994.3	6113.0	5895.3	5193.9
70°	4491.0	4460.8	4893.1	5877.2	7763.7	7707.7	7370.6	7063.8	6072.2	5771.4	4663.3
72.5°	3330.1	3284.7	3730.7	4725.3	7003.3	7109.1	7018.4	6657.2	5918.0	5308.8	3785.1
75°	2279.5	2332.4	2733.0	3562.9	5816.7	5976.9	6377.5	6342.7	5265.0	4400.3	2590.9
77.5°	1560.0	1582.7	1925.8	2651.4	4610.4	4672.4	5336.0	5124.4	3871.3	2704.3	864.6
80°	1015.8	1008.2	1316.6	1888.0	3380.0	3372.4	3810.8	3242.4	2086.0	922.1	119.4
82.5°	566.9	600.1	789.1	1241.0	2284.1	2308.2	2379.3	1773.1	802.7	107.3	75.6
85°	319.0	332.6	453.5	702.9	1197.2	1257.7	1061.2	651.5	143.6	59.0	43.8
87.5°	75.6	72.6	145.1	269.1	199.5	216.2	102.8	30.2	15.1	10.6	10.6
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°	1396.7	1396.7	1396.7	1396.7	1396.7	1396.7	1396.7	1396.7	1396.7	1396.7	1396.7
2.5°	1395.2	1392.2	1389.2	1383.1	1378.6	1365.0	1366.5	1375.6	1366.5	1381.6	1372.5
5°	1398.2	1393.7	1386.2	1368.0	1354.4	1343.8	1340.8	1339.3	1327.2	1340.8	1334.8
7.5°	1410.3	1405.8	1389.2	1369.5	1349.9	1318.1	1313.6	1307.5	1284.9	1293.9	1286.4
10°	1439.1	1433.0	1404.3	1377.1	1346.9	1304.5	1280.3	1262.2	1236.5	1239.5	1232.0
12.5°	1475.3	1469.3	1436.0	1390.7	1348.4	1289.4	1247.1	1212.3	1174.5	1174.5	1167.0
15°	1517.7	1511.6	1473.8	1420.9	1354.4	1277.3	1213.8	1157.9	1097.4	1089.9	1080.8
17.5°	1575.1	1566.0	1522.2	1454.2	1371.0	1266.7	1180.6	1097.4	1005.2	976.5	961.4
20°	1634.1	1623.5	1585.7	1501.0	1393.7	1256.2	1132.2	1018.8	899.4	840.5	829.9
22.5°	1709.6	1706.6	1659.8	1541.8	1401.3	1233.5	1071.7	931.2	770.9	689.3	672.7
25°	1798.8	1794.3	1721.7	1573.6	1392.2	1188.1	985.6	805.7	625.8	544.2	526.0
27.5°	1904.6	1892.5	1774.6	1581.2	1366.5	1117.1	875.2	643.9	462.6	393.0	379.4
30°	2016.5	1998.4	1830.6	1582.7	1315.1	1029.4	730.1	473.1	328.0	278.1	278.1
32.5°	2203.9	2142.0	1885.0	1561.5	1241.0	903.9	556.3	319.0	229.8	210.1	210.1
35°	2606.0	2457.9	1971.1	1534.3	1144.3	748.3	377.9	216.2	192.0	192.0	190.5
37.5°	3209.2	2934.0	2117.8	1488.9	1012.8	556.3	249.4	178.4	182.9	182.9	182.9
40°	3594.6	3305.9	2317.3	1417.9	861.6	377.9	178.4	169.3	172.3	175.3	175.3
42.5°	3954.4	3629.4	2516.8	1319.6	695.3	241.9	166.3	158.7	160.2	160.2	161.7
45°	4182.6	3869.7	2665.0	1215.3	512.4	172.3	163.3	149.7	145.1	145.1	148.1
47.5°	4394.3	4026.9	2730.0	1077.8	331.0	161.7	155.7	139.1	133.0	131.5	131.5
50°	4605.9	4188.7	2766.3	914.5	207.1	155.7	143.6	127.0	120.9	119.4	119.4
52.5°	4699.6	4240.1	2684.6	730.1	154.2	149.7	134.5	116.4	107.3	107.3	107.3
55°	4797.9	4335.3	2547.1	523.0	146.6	139.1	124.0	104.3	96.7	99.8	99.8
57.5°	4906.7	4267.3	2400.4	340.1	145.1	125.5	110.3	93.7	87.7	90.7	92.2
60°	4873.5	4283.9	2190.3	228.3	139.1	114.9	99.8	83.1	78.6	78.6	78.6
62.5°	4873.5	4155.4	1845.7	173.8	127.0	105.8	92.2	77.1	69.5	66.5	63.5
65°	4745.0	3851.6	1348.4	151.2	113.4	98.3	83.1	68.0	59.0	54.4	52.9
67.5°	4356.5	3348.2	542.7	137.6	104.3	90.7	77.1	62.0	51.4	45.3	43.8
70°	3703.5	2471.5	155.7	122.4	105.8	84.7	72.6	54.4	45.3	37.8	36.3
72.5°	2745.1	1306.0	127.0	96.7	93.7	72.6	68.0	51.4	39.3	31.7	30.2
75°	1386.2	178.4	108.8	69.5	72.6	75.6	65.0	45.3	36.3	25.7	24.2
77.5°	143.6	105.8	95.2	46.9	51.4	52.9	55.9	42.3	31.7	21.2	19.7
80°	89.2	80.1	93.7	40.8	30.2	36.3	37.8	33.3	25.7	16.6	16.6
82.5°	63.5	68.0	69.5	25.7	22.7	21.2	19.7	19.7	22.7	15.1	15.1
85°	43.8	45.3	28.7	16.6	15.1	13.6	12.1	12.1	10.6	12.1	10.6
87.5°	10.6	9.1	9.1	9.1	7.6	7.6	6.0	6.0	6.0	6.0	7.6
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)