

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: P509252

Luminaire Tested: **VERD-CA2-60-727-U-T2-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509252
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-60-727-U-T2-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 850mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7105 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

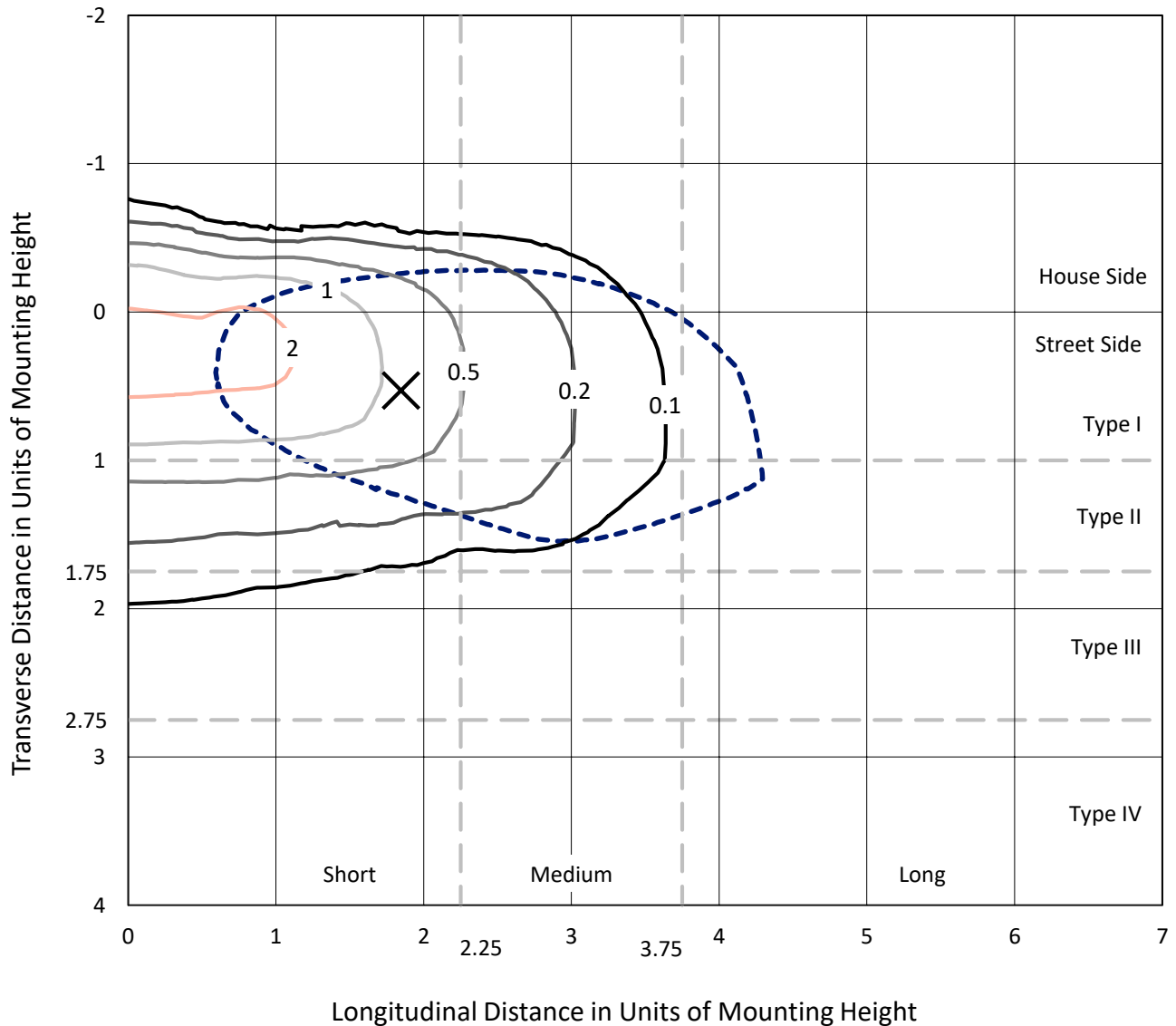
Input Watts (W): 63.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

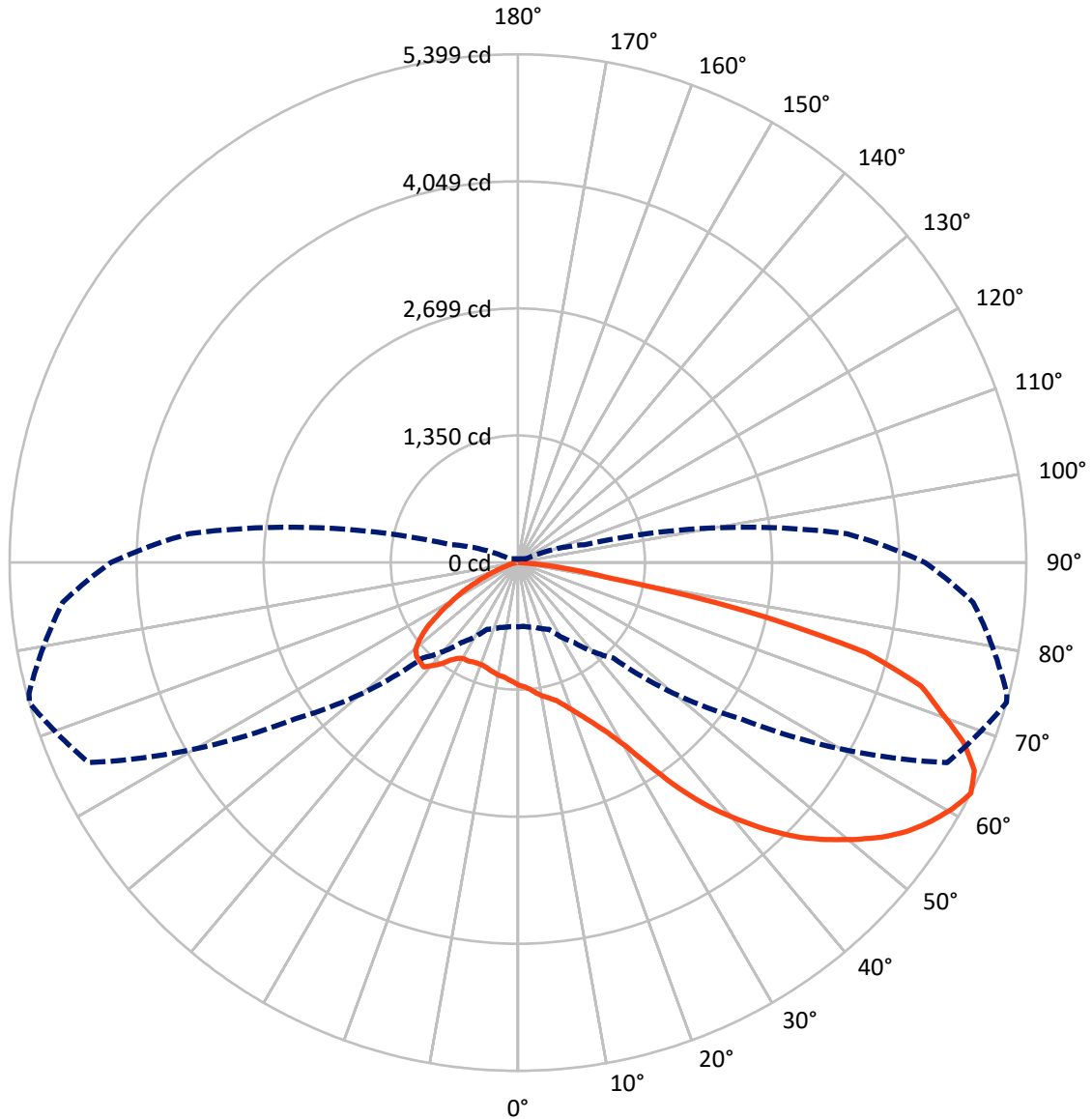
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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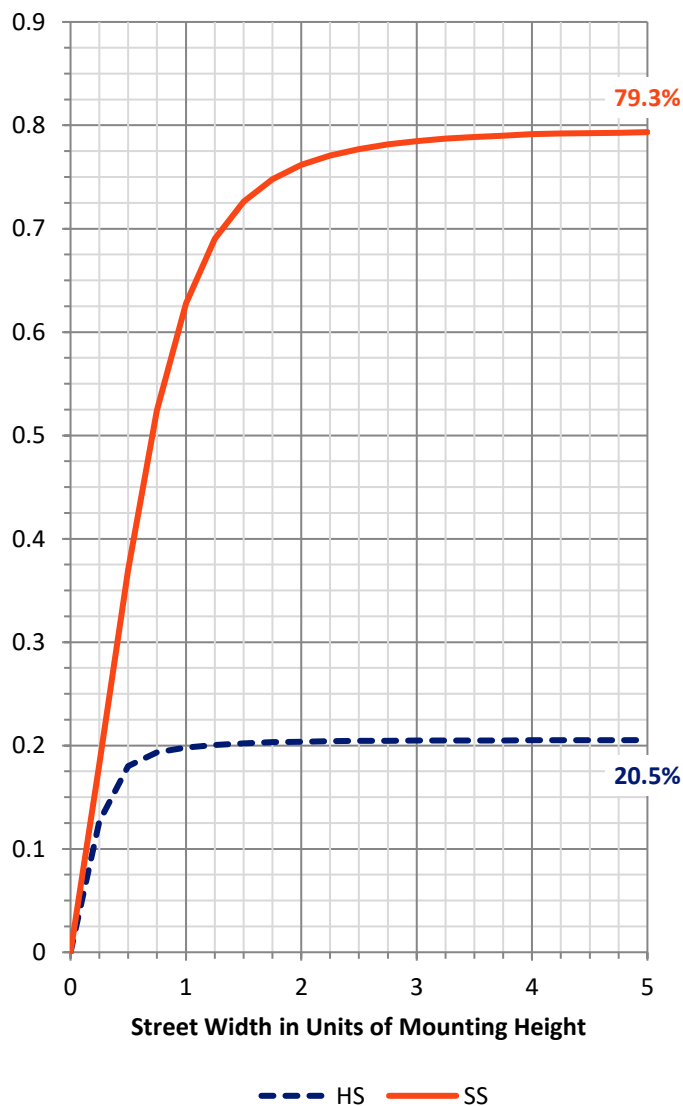
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1475.4	0.0	1475.4
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	5629.6	0.0	5629.6
	% Fixture	79.2	0.0	79.2
Total	Lumens	7105.0	0.0	7105.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.1	1.7
10°-20°	375.0	5.3
20°-30°	633.1	8.9
30°-40°	941.7	13.3
40°-50°	1274.5	17.9
50°-60°	1466.3	20.6
60°-70°	1415.4	19.9
70°-80°	801.3	11.3
80°-90°	73.5	1.0
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°	7105.0	100.0
0°-180°	7105.0	100.0

Coefficient of Utilization



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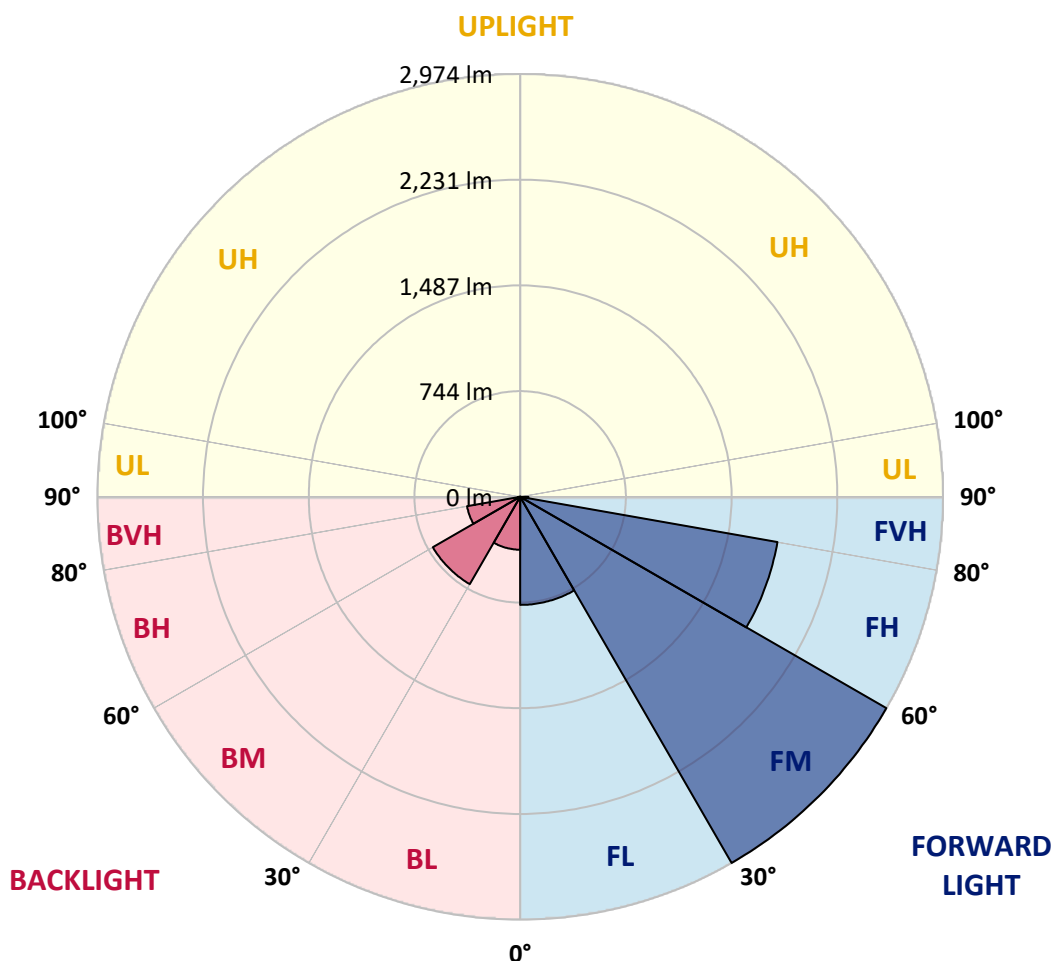
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	760.2	10.7			
FM	(30°-60°)	2974.0	41.9			
FH	(60°-80°)	1837.4	25.9			G2/5000
FVH	(80°-90°)	57.9	0.8			G1/100
BL	(0°-30°)	372.0	5.2	B1/500		
BM	(30°-60°)	708.5	10.0	B1/1000		
BH	(60°-80°)	379.3	5.3	B1/500		G1/500
BVH	(80°-90°)	15.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3
2.5°	1420.0	1410.7	1403.1	1398.8	1387.0	1376.8	1356.5	1335.3	1320.9	1320.1	1306.5
5°	1479.3	1478.4	1461.5	1458.1	1442.0	1436.9	1416.6	1386.1	1350.6	1346.3	1309.9
7.5°	1557.2	1547.9	1529.2	1521.6	1503.0	1489.4	1462.3	1433.6	1398.0	1393.8	1330.3
10°	1632.5	1627.5	1616.5	1617.3	1591.1	1565.7	1525.0	1475.9	1442.0	1436.9	1359.0
12.5°	1719.8	1703.7	1685.0	1674.9	1648.6	1632.5	1593.6	1529.2	1475.9	1470.8	1392.9
15°	1779.9	1771.4	1754.5	1747.7	1722.3	1696.1	1651.2	1601.2	1520.8	1515.7	1427.6
17.5°	1844.2	1840.0	1820.5	1816.3	1791.7	1760.4	1725.7	1660.5	1590.2	1581.7	1469.1
20°	1887.4	1879.8	1877.3	1876.4	1869.6	1850.2	1806.1	1755.3	1677.4	1662.2	1522.5
22.5°	1945.0	1937.4	1940.8	1944.2	1953.5	1945.0	1916.2	1856.1	1779.0	1765.5	1606.3
25°	1950.9	1945.8	1968.7	2016.1	2034.8	2044.1	2022.1	1975.5	1901.0	1883.2	1706.2
27.5°	1967.0	1959.4	1984.0	2033.9	2117.7	2132.1	2136.4	2114.4	2051.7	2041.5	1841.7
30°	1938.2	1933.1	1971.2	2056.8	2150.8	2232.0	2263.4	2293.9	2265.1	2247.3	2030.5
32.5°	1867.9	1871.3	1921.3	2034.8	2208.3	2333.7	2414.9	2522.5	2574.1	2570.8	2365.0
35°	1765.5	1763.8	1847.6	2007.7	2213.4	2429.3	2580.9	2799.4	2944.2	2934.0	2716.4
37.5°	1678.3	1674.0	1768.9	1939.1	2217.7	2505.6	2775.7	3101.7	3285.4	3275.3	3003.4
40°	1571.6	1578.4	1663.0	1859.5	2182.1	2562.3	2945.0	3395.5	3583.5	3583.5	3300.7
42.5°	1464.0	1470.0	1553.8	1748.6	2130.4	2603.8	3104.2	3688.5	3879.8	3884.1	3504.7
45°	1370.1	1372.6	1448.8	1624.1	2037.3	2610.5	3250.7	3982.3	4157.6	4146.6	3737.6
47.5°	1204.9	1232.9	1352.3	1512.3	1910.3	2580.9	3374.3	4243.9	4396.4	4373.5	3959.4
50°	960.2	960.2	1125.3	1405.6	1764.6	2502.2	3471.7	4482.7	4623.3	4602.1	4153.3
52.5°	882.3	884.0	934.8	1255.7	1617.3	2366.7	3527.6	4719.8	4846.0	4831.6	4337.1
55°	840.8	843.4	867.1	1017.8	1483.5	2159.2	3529.3	4903.6	5034.8	5002.6	4492.0
57.5°	778.2	773.9	823.9	906.9	1326.9	1891.7	3446.3	5045.8	5181.3	5156.7	4619.1
60°	734.1	727.4	761.2	835.7	1158.4	1614.8	3225.3	5149.1	5306.6	5321.0	4743.5
62.5°	682.5	679.9	712.1	782.4	1033.9	1433.6	2893.4	5028.9	5398.9	5376.1	4853.6
65°	630.8	625.8	656.2	711.3	913.7	1285.4	2558.9	4851.1	5327.8	5348.1	4875.6
67.5°	563.1	562.2	591.0	631.7	782.4	1119.4	2074.6	4617.4	5107.6	5093.2	4675.8
70°	481.0	481.0	509.7	545.3	653.7	955.1	1592.7	4216.8	4768.9	4852.8	4333.7
72.5°	388.7	390.4	419.1	459.8	539.4	778.2	1174.5	3667.3	4475.1	4340.5	3851.0
75°	207.5	186.3	328.5	370.0	435.2	620.7	803.6	2384.5	3816.3	3723.2	3194.8
77.5°	50.0	52.5	103.3	192.2	232.0	343.8	395.4	1104.2	2460.7	2608.9	2278.6
80°	33.0	36.4	55.9	136.3	155.0	182.9	156.6	481.0	954.3	1017.0	1322.6
82.5°	16.9	18.6	34.7	54.2	55.0	47.4	59.3	242.2	504.7	547.0	635.9
85°	5.9	9.3	17.8	23.7	22.0	17.8	14.4	60.1	119.4	132.9	138.0
87.5°	0.0	0.0	2.5	2.5	1.7	1.7	2.5	2.5	3.4	2.5	2.5
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°	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3
2.5°	1295.5	1286.2	1271.8	1256.6	1240.5	1226.9	1219.3	1223.6	1228.6	1212.6	1206.6
5°	1293.0	1276.9	1249.8	1217.6	1193.1	1168.5	1139.7	1133.0	1126.2	1117.7	1108.4
7.5°	1304.9	1281.1	1226.1	1196.5	1144.8	1099.1	1073.7	1055.1	1038.1	1022.9	1013.6
10°	1326.9	1282.8	1221.0	1160.9	1104.2	1048.3	993.2	982.2	978.9	956.8	940.7
12.5°	1341.3	1287.1	1203.2	1130.4	1049.1	989.0	934.0	902.6	900.1	889.9	878.9
15°	1364.1	1304.0	1191.4	1092.3	993.2	929.7	878.9	838.3	818.0	817.1	808.7
17.5°	1405.6	1323.5	1172.8	1053.4	948.4	877.2	804.4	789.2	755.3	735.8	730.8
20°	1448.0	1352.3	1167.7	1014.4	889.9	801.9	746.0	703.7	676.6	656.2	643.5
22.5°	1503.0	1393.8	1169.4	991.6	842.5	745.1	672.3	609.7	559.7	535.1	523.3
25°	1582.6	1442.0	1182.1	956.8	786.6	684.2	578.3	495.4	425.1	407.3	398.8
27.5°	1684.2	1509.8	1199.9	921.3	735.0	602.0	464.9	371.7	313.3	299.8	291.3
30°	1840.0	1611.4	1202.4	899.3	688.4	495.4	348.0	275.2	229.5	215.1	216.8
32.5°	2133.0	1829.0	1236.3	853.5	605.4	380.2	255.7	200.7	166.0	160.9	169.4
35°	2473.4	2085.6	1301.5	829.8	510.6	275.2	182.9	147.3	125.3	132.1	135.5
37.5°	2692.7	2311.6	1405.6	775.6	399.7	202.4	127.9	115.2	110.9	115.2	122.8
40°	2948.4	2495.4	1494.5	720.6	283.7	138.9	102.5	105.0	99.9	99.1	102.5
42.5°	3155.9	2684.2	1589.4	630.0	197.3	103.3	94.0	95.7	92.3	88.1	88.1
45°	3353.2	2847.6	1588.5	508.1	130.4	91.4	86.4	89.8	88.9	83.0	82.1
47.5°	3525.9	3012.8	1589.4	369.2	99.1	83.8	80.4	83.8	83.8	78.7	77.9
50°	3740.1	3149.9	1564.0	236.2	90.6	77.9	77.1	76.2	79.6	72.8	71.1
52.5°	3871.4	3249.9	1449.6	159.2	83.8	73.7	72.0	70.3	72.0	66.0	66.0
55°	4015.3	3374.3	1300.6	126.2	79.6	68.6	67.7	66.0	66.0	59.3	60.1
57.5°	4172.0	3475.9	1099.9	110.9	76.2	65.2	63.5	61.0	57.6	52.5	51.7
60°	4285.4	3497.1	900.1	100.8	73.7	63.5	56.7	53.3	47.4	44.0	43.2
62.5°	4323.5	3508.1	729.9	90.6	69.4	58.4	50.8	44.9	38.1	35.6	35.6
65°	4292.2	3381.1	547.0	82.1	64.4	54.2	44.9	36.4	29.6	27.1	26.2
67.5°	4090.7	3147.4	398.0	73.7	56.7	49.1	39.0	29.6	23.7	21.2	21.2
70°	3724.0	2872.2	269.3	61.8	49.1	43.2	36.4	23.7	19.5	16.9	16.1
72.5°	3324.4	2435.3	171.9	50.0	38.1	33.9	26.2	20.3	16.1	12.7	12.7
75°	2629.2	1912.8	119.4	36.4	27.1	25.4	20.3	16.9	13.5	10.2	10.2
77.5°	1829.8	1243.0	94.0	27.9	18.6	16.9	15.2	12.7	11.0	8.5	7.6
80°	1061.0	747.7	56.7	18.6	12.7	11.0	10.2	10.2	8.5	5.9	5.9
82.5°	526.7	311.6	24.6	11.9	8.5	7.6	6.8	5.9	5.9	4.2	4.2
85°	103.3	53.3	9.3	5.9	4.2	4.2	3.4	3.4	2.5	1.7	1.7
87.5°	3.4	2.5	2.5	2.5	1.7	1.7	0.8	0.0	0.0	0.0	0.0
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)