

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: P509464

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

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509464
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-7)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-100-740-U-T4-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 930mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13469 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

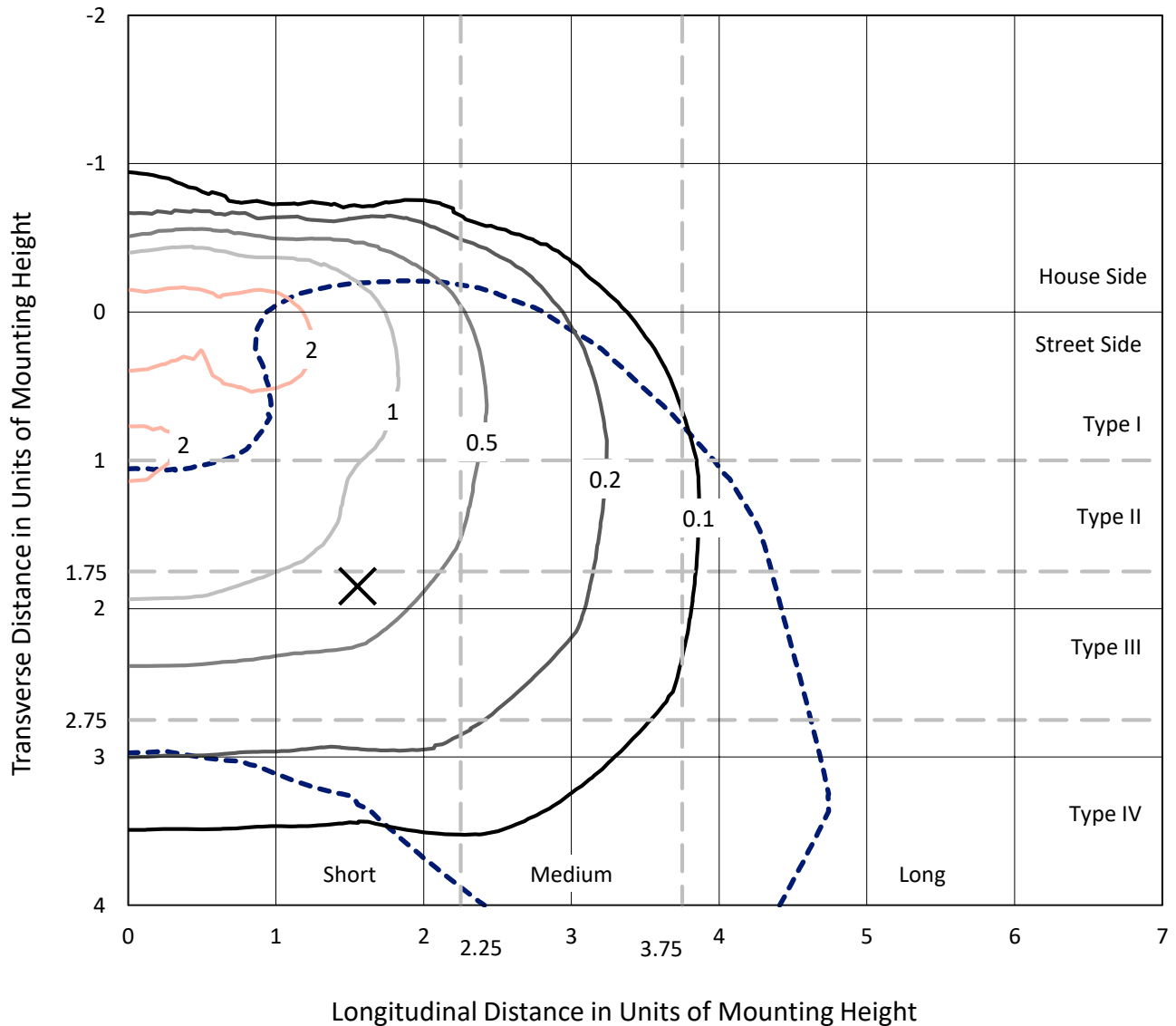
Input Watts (W): 102.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509464
 CATALOG NUMBER: VERD-G-CA2-100-740-U-T4-HSS

Iso-Footcandle Lines of Horizontal Illumination

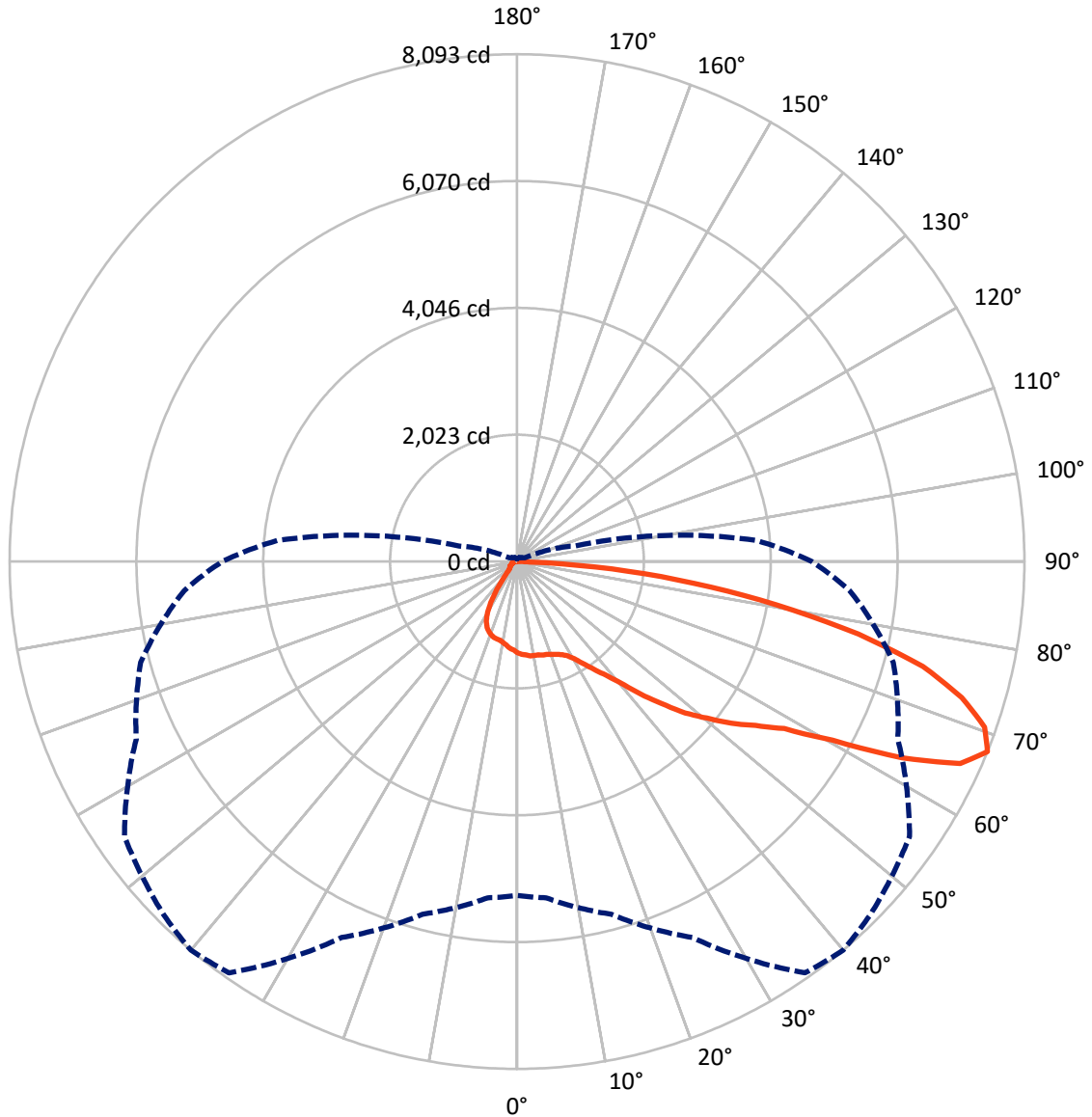
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P509464
CATALOG NUMBER: VERD-G-CA2-100-740-U-T4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P509464

CATALOG NUMBER: VERD-G-CA2-100-740-U-T4-HSS

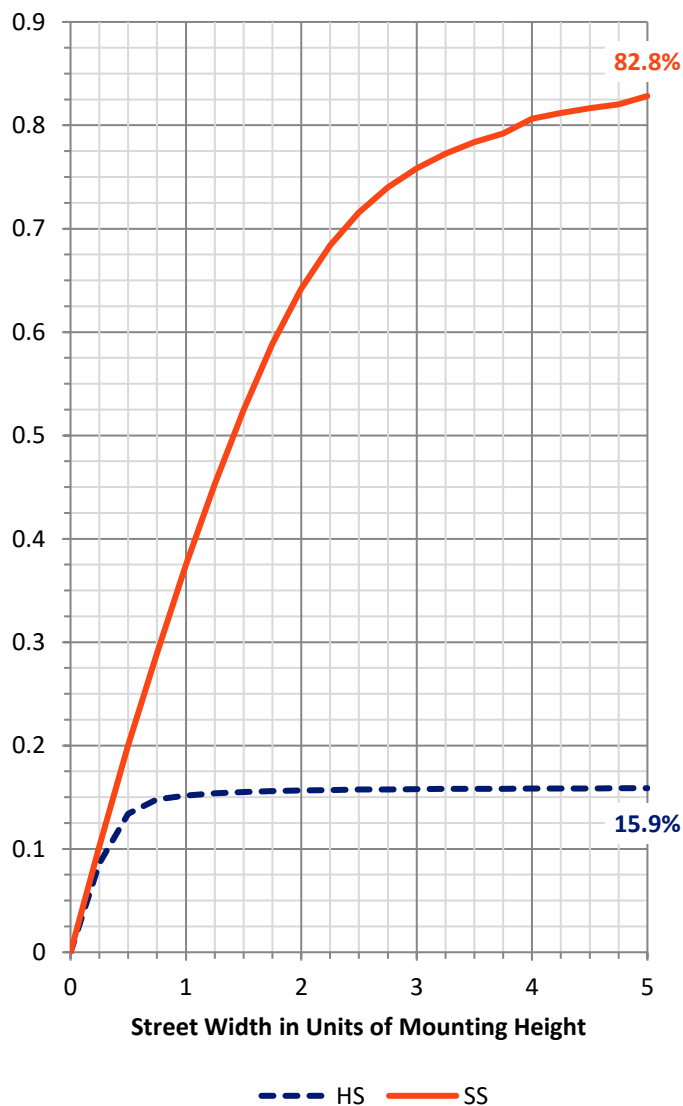
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2161.6	0.0	2161.6
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	11307.5	0.0	11307.5
	% Fixture	84.0	0.0	84.0
Total	Lumens	13469.0	0.0	13469.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.0	1.0
10°-20°	409.2	3.0
20°-30°	680.8	5.1
30°-40°	1070.6	7.9
40°-50°	1853.6	13.8
50°-60°	2740.0	20.3
60°-70°	3562.2	26.4
70°-80°	2549.7	18.9
80°-90°	465.0	3.5
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°	13469.0	100.0
0°-180°	13469.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509464

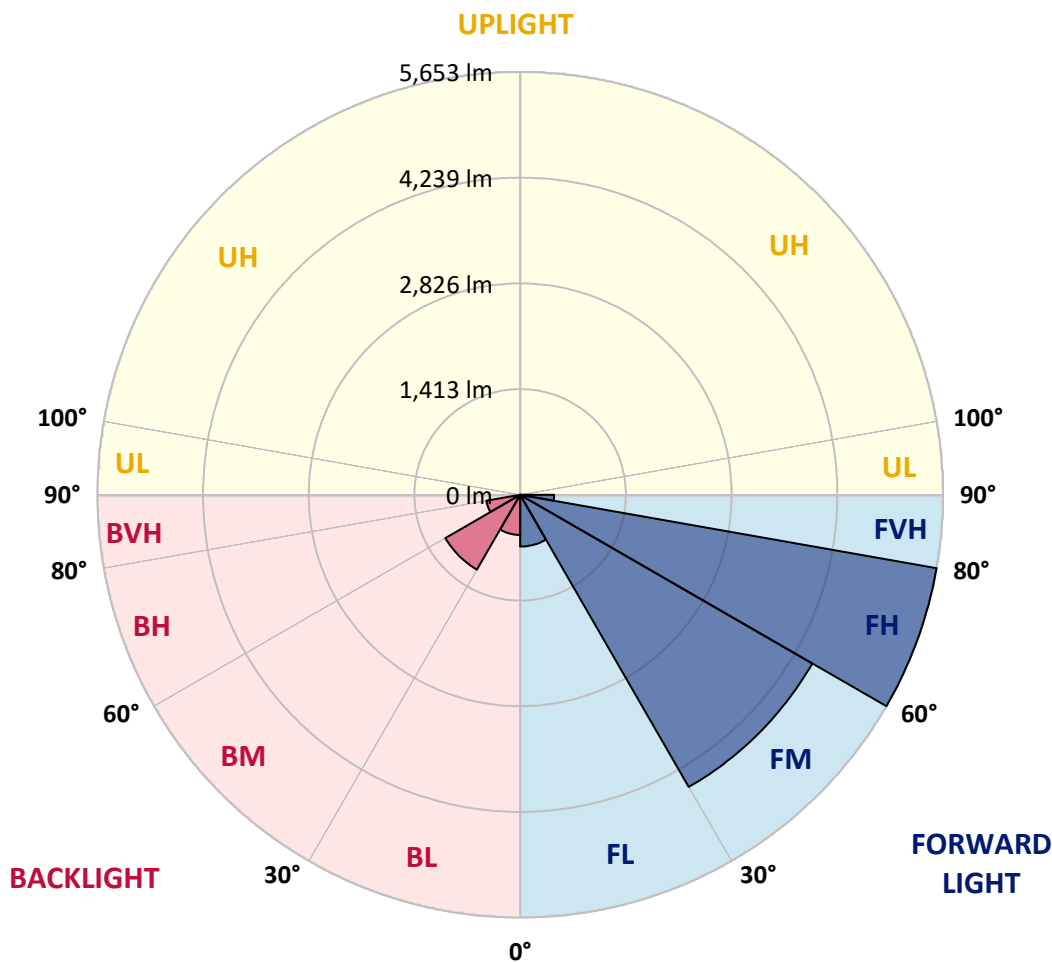
CATALOG NUMBER: VERD-G-CA2-100-740-U-T4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	691.8	5.1			
FM (30°-60°)	4509.5	33.5			
FH (60°-80°)	5652.6	42.0			G3/7500
FVH (80°-90°)	453.5	3.4			G3/500
BL (0°-30°)	536.2	4.0	B2/1000		
BM (30°-60°)	1154.7	8.6	B2/2500		
BH (60°-80°)	459.3	3.4	B1/500		G1/500
BVH (80°-90°)	11.4	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





REPORT NUMBER: P509464

CATALOG NUMBER: VERD-G-CA2-100-740-U-T4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1458.0	1458.0	1458.0	1458.0	1458.0	1458.0	1458.0	1458.0	1458.0	1458.0	1458.0
2.5°	1517.0	1516.0	1506.0	1501.0	1487.0	1482.0	1483.0	1477.0	1463.0	1465.0	1451.0
5°	1519.0	1526.0	1511.0	1507.0	1502.0	1496.0	1503.0	1495.0	1483.0	1487.0	1472.0
7.5°	1528.0	1531.0	1524.0	1520.0	1508.0	1520.0	1519.0	1512.0	1504.0	1497.0	1491.0
10°	1531.0	1528.0	1514.0	1511.0	1511.0	1523.0	1528.0	1531.0	1531.0	1520.0	1516.0
12.5°	1516.0	1514.0	1500.0	1506.0	1519.0	1527.0	1543.0	1553.0	1569.0	1557.0	1551.0
15°	1493.0	1498.0	1504.0	1506.0	1530.0	1548.0	1563.0	1581.0	1608.0	1608.0	1606.0
17.5°	1500.0	1510.0	1517.0	1527.0	1550.0	1556.0	1577.0	1606.0	1651.0	1654.0	1659.0
20°	1535.0	1535.0	1537.0	1544.0	1564.0	1582.0	1600.0	1637.0	1689.0	1706.0	1711.0
22.5°	1573.0	1571.0	1580.0	1579.0	1595.0	1607.0	1630.0	1662.0	1727.0	1759.0	1772.0
25°	1604.0	1610.0	1618.0	1608.0	1639.0	1644.0	1662.0	1701.0	1770.0	1827.0	1855.0
27.5°	1657.0	1661.0	1659.0	1664.0	1695.0	1698.0	1715.0	1771.0	1835.0	1913.0	1974.0
30°	1748.0	1734.0	1736.0	1747.0	1792.0	1798.0	1816.0	1870.0	1921.0	2024.0	2120.0
32.5°	1873.0	1873.0	1851.0	1872.0	1924.0	1940.0	1967.0	2048.0	2098.0	2153.0	2311.0
35°	2112.0	2112.0	2096.0	2041.0	2067.0	2107.0	2157.0	2269.0	2423.0	2603.0	2771.0
37.5°	2508.0	2502.0	2439.0	2340.0	2284.0	2298.0	2347.0	2528.0	2778.0	3216.9	3345.9
40°	2980.9	2963.9	2845.9	2708.0	2565.0	2541.0	2564.0	2791.0	3146.9	3797.9	3846.9
42.5°	3400.9	3399.9	3226.9	3109.9	2926.9	2886.9	2859.9	3056.9	3516.9	4219.9	4236.9
45°	3801.9	3791.9	3623.9	3496.9	3329.9	3227.9	3220.9	3358.9	3905.9	4599.9	4527.9
47.5°	4158.9	4173.9	3985.9	3863.9	3678.9	3608.9	3552.9	3670.9	4263.9	4923.9	4774.9
50°	4569.9	4596.9	4315.9	4181.9	3994.9	3925.9	3956.9	4043.9	4620.9	5188.9	4994.9
52.5°	5088.9	5002.9	4723.9	4493.9	4319.9	4285.9	4292.9	4413.9	5033.9	5405.9	5147.9
55°	5699.9	5572.9	5292.9	4933.9	4649.9	4617.9	4614.9	4737.9	5415.9	5608.9	5265.9
57.5°	5929.9	5995.9	5885.9	5620.9	5118.9	5024.9	4951.9	5065.9	5758.9	5832.9	5389.9
60°	6460.9	6531.9	6450.9	6280.9	6110.9	5783.9	5463.9	5452.9	6078.9	6046.9	5441.9
62.5°	6519.9	6496.9	6856.9	6916.9	7017.9	6890.9	6653.9	5965.9	6367.9	6155.9	5482.9
65°	6189.9	6192.9	6675.9	7005.9	7703.9	7768.9	7621.9	6781.9	6584.9	6198.9	5453.9
67.5°	5325.9	5384.9	5824.9	6615.9	8007.9	8092.9	7968.9	7642.9	6701.9	6213.9	5327.9
70°	4576.9	4578.9	4994.9	5959.9	7847.9	7911.9	7854.9	7698.9	6656.9	6094.9	4985.9
72.5°	3601.9	3590.9	3955.9	4930.9	7282.9	7418.9	7387.9	7494.9	6491.9	5664.9	4241.9
75°	2601.0	2623.0	2992.9	3797.9	6264.9	6686.9	6836.9	7162.9	5903.9	4810.9	3109.9
77.5°	1821.0	1843.0	2198.0	2884.9	5055.9	5564.9	5805.9	6091.9	4784.9	3565.9	1594.0
80°	1191.0	1211.0	1516.0	2167.0	3768.9	4202.9	4383.9	4212.9	2810.0	1498.0	175.0
82.5°	692.0	731.0	963.0	1487.0	2641.0	2846.9	2856.9	2217.0	1050.0	134.0	82.0
85°	337.0	362.0	576.0	882.0	1445.0	1519.0	1409.0	825.0	245.0	64.0	47.0
87.5°	50.0	66.0	227.0	333.0	245.0	201.0	121.0	28.0	16.0	8.0	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P509464

CATALOG NUMBER: VERD-G-CA2-100-740-U-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1458.0	1458.0	1458.0	1458.0	1458.0	1458.0	1458.0	1458.0	1458.0	1458.0	1458.0
2.5°	1443.0	1442.0	1445.0	1432.0	1433.0	1417.0	1411.0	1408.0	1422.0	1420.0	1430.0
5°	1461.0	1451.0	1450.0	1418.0	1415.0	1395.0	1383.0	1365.0	1379.0	1376.0	1376.0
7.5°	1472.0	1462.0	1456.0	1418.0	1392.0	1357.0	1337.0	1323.0	1322.0	1319.0	1320.0
10°	1490.0	1485.0	1453.0	1411.0	1376.0	1331.0	1293.0	1271.0	1261.0	1262.0	1255.0
12.5°	1530.0	1520.0	1477.0	1427.0	1371.0	1309.0	1260.0	1221.0	1201.0	1197.0	1186.0
15°	1587.0	1576.0	1522.0	1465.0	1384.0	1311.0	1238.0	1169.0	1135.0	1121.0	1111.0
17.5°	1654.0	1637.0	1575.0	1510.0	1411.0	1309.0	1217.0	1124.0	1059.0	1022.0	1019.0
20°	1707.0	1699.0	1628.0	1558.0	1428.0	1296.0	1182.0	1059.0	962.0	894.0	880.0
22.5°	1777.0	1778.0	1699.0	1594.0	1442.0	1274.0	1127.0	968.0	836.0	745.0	729.0
25°	1878.0	1863.0	1774.0	1623.0	1445.0	1249.0	1052.0	854.0	682.0	580.0	562.0
27.5°	1999.0	1977.0	1835.0	1638.0	1432.0	1199.0	952.0	705.0	504.0	416.0	402.0
30°	2127.0	2075.0	1885.0	1644.0	1392.0	1118.0	810.0	515.0	357.0	295.0	289.0
32.5°	2291.0	2215.0	1928.0	1624.0	1331.0	995.0	628.0	353.0	247.0	214.0	216.0
35°	2627.0	2441.0	1995.0	1602.0	1245.0	841.0	439.0	234.0	191.0	187.0	188.0
37.5°	3134.9	2839.9	2113.0	1570.0	1117.0	643.0	282.0	181.0	182.0	182.0	182.0
40°	3625.9	3275.9	2294.0	1507.0	960.0	450.0	186.0	171.0	176.0	175.0	176.0
42.5°	3975.9	3599.9	2484.0	1430.0	779.0	285.0	167.0	161.0	164.0	163.0	166.0
45°	4259.9	3877.9	2657.0	1321.0	583.0	186.0	164.0	153.0	150.0	149.0	152.0
47.5°	4469.9	4060.9	2781.0	1185.0	389.0	160.0	157.0	141.0	137.0	137.0	138.0
50°	4673.9	4236.9	2817.9	1030.0	240.0	156.0	148.0	131.0	125.0	123.0	125.0
52.5°	4815.9	4296.9	2825.9	855.0	161.0	152.0	137.0	119.0	112.0	111.0	112.0
55°	4936.9	4419.9	2761.0	637.0	144.0	143.0	127.0	107.0	99.0	103.0	105.0
57.5°	4966.9	4431.9	2631.0	421.0	143.0	131.0	116.0	96.0	90.0	94.0	95.0
60°	5042.9	4382.9	2469.0	259.0	140.0	117.0	103.0	85.0	81.0	82.0	84.0
62.5°	4977.9	4355.9	2192.0	181.0	129.0	107.0	96.0	78.0	71.0	70.0	70.0
65°	4911.9	4196.9	1676.0	150.0	115.0	100.0	87.0	69.0	61.0	57.0	57.0
67.5°	4701.9	3840.9	957.0	139.0	104.0	92.0	79.0	63.0	53.0	48.0	46.0
70°	4172.9	3076.9	295.0	127.0	105.0	86.0	73.0	55.0	46.0	39.0	38.0
72.5°	3267.9	1924.0	138.0	112.0	108.0	80.0	68.0	51.0	41.0	33.0	32.0
75°	1923.0	461.0	113.0	83.0	92.0	85.0	67.0	49.0	36.0	27.0	26.0
77.5°	418.0	112.0	101.0	56.0	69.0	82.0	64.0	43.0	32.0	21.0	20.0
80°	101.0	88.0	92.0	43.0	46.0	57.0	52.0	37.0	29.0	17.0	16.0
82.5°	68.0	66.0	81.0	27.0	23.0	21.0	22.0	23.0	24.0	13.0	12.0
85°	45.0	57.0	43.0	15.0	13.0	11.0	11.0	10.0	14.0	8.0	8.0
87.5°	7.0	6.0	7.0	6.0	6.0	5.0	4.0	4.0	3.0	4.0	4.0
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)