

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: P509456

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

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509456
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-CA2-100-730-U-T4-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 930mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13225 lumens
Efficiency: N/A
Efficacy: 128.9 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

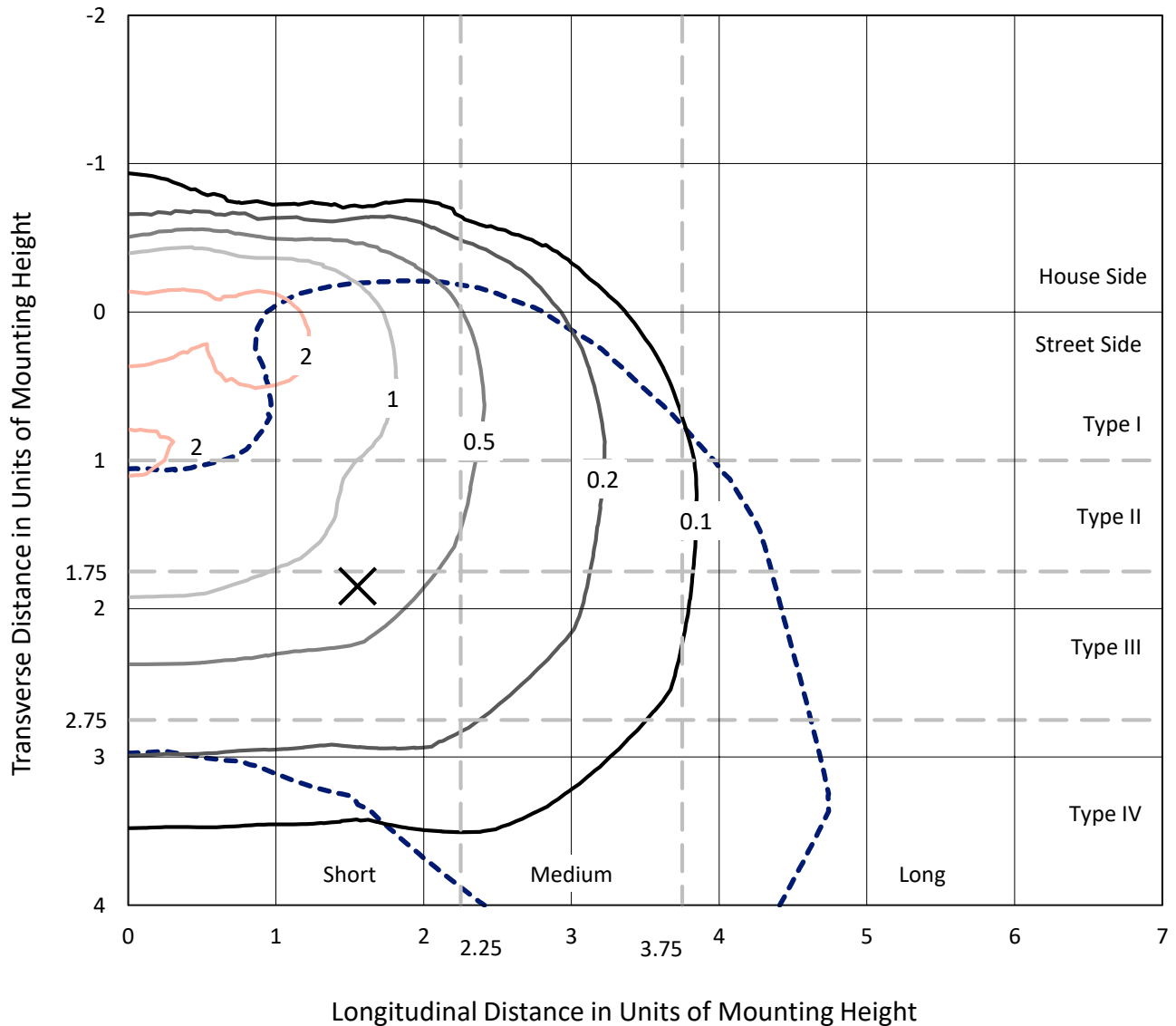
Input Watts (W): 102.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

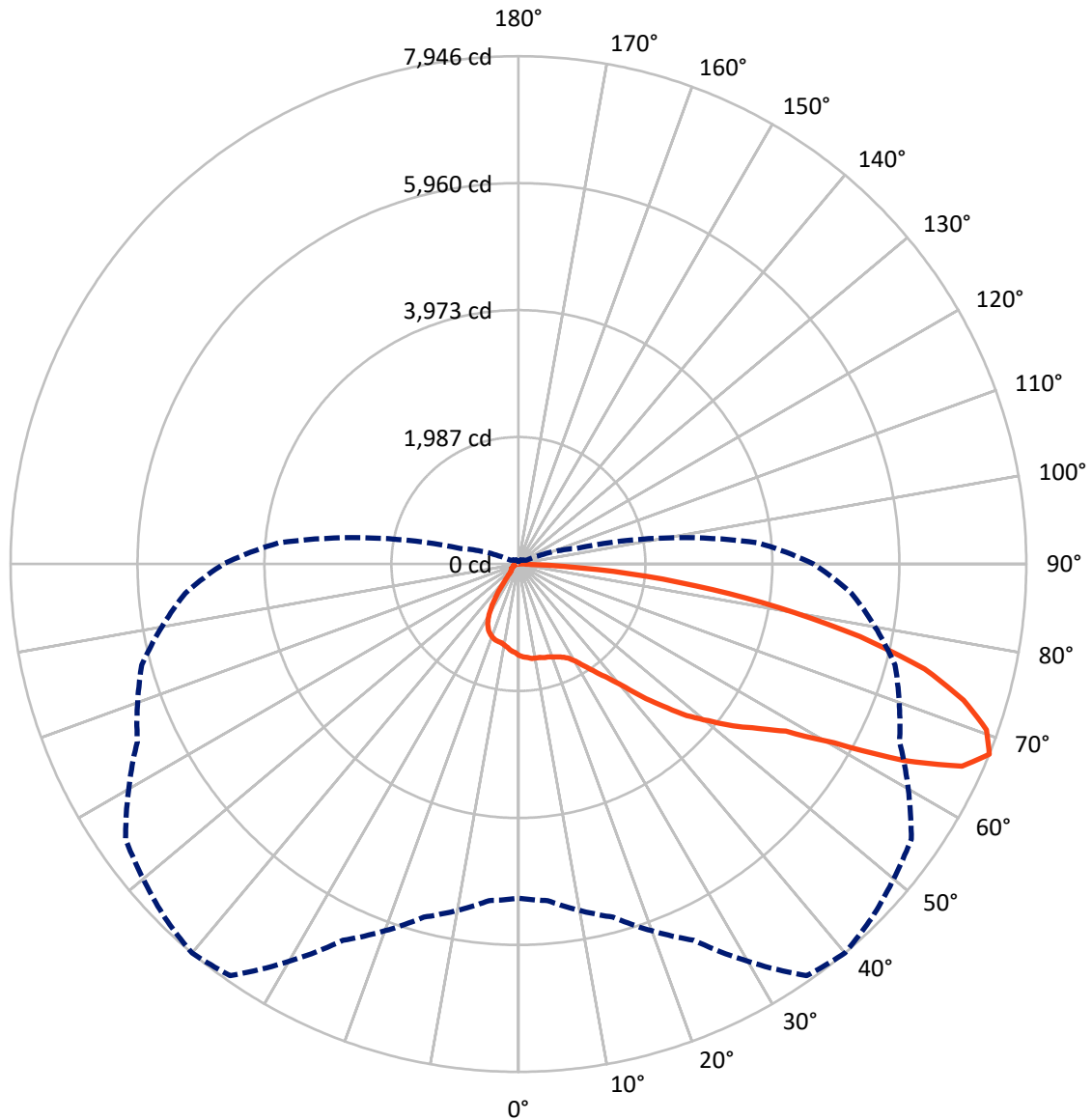
✕ Max cd
 - - - 1/2 Max cd



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

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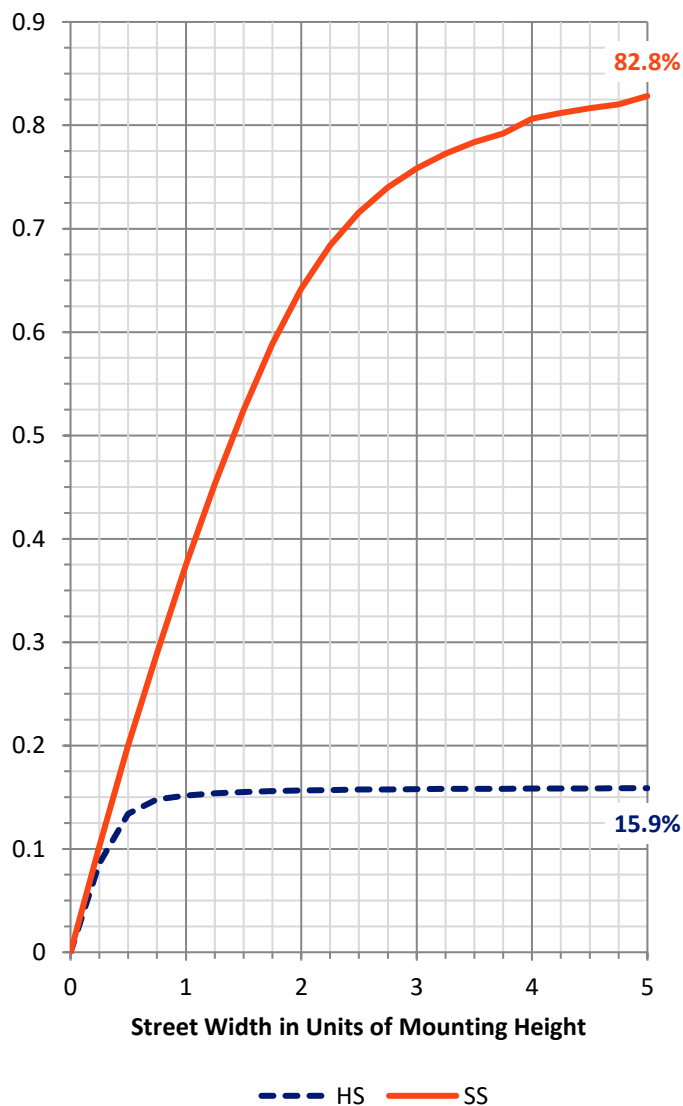
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2122.4	0.0	2122.4
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	11102.6	0.0	11102.6
	% Fixture	84.0	0.0	84.0
Total	Lumens	13225.0	0.0	13225.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.5	1.0
10°-20°	401.8	3.0
20°-30°	668.5	5.1
30°-40°	1051.2	7.9
40°-50°	1820.0	13.8
50°-60°	2690.3	20.3
60°-70°	3497.6	26.4
70°-80°	2503.5	18.9
80°-90°	456.5	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°	13225.0	100.0
0°-180°	13225.0	100.0

Coefficient of Utilization



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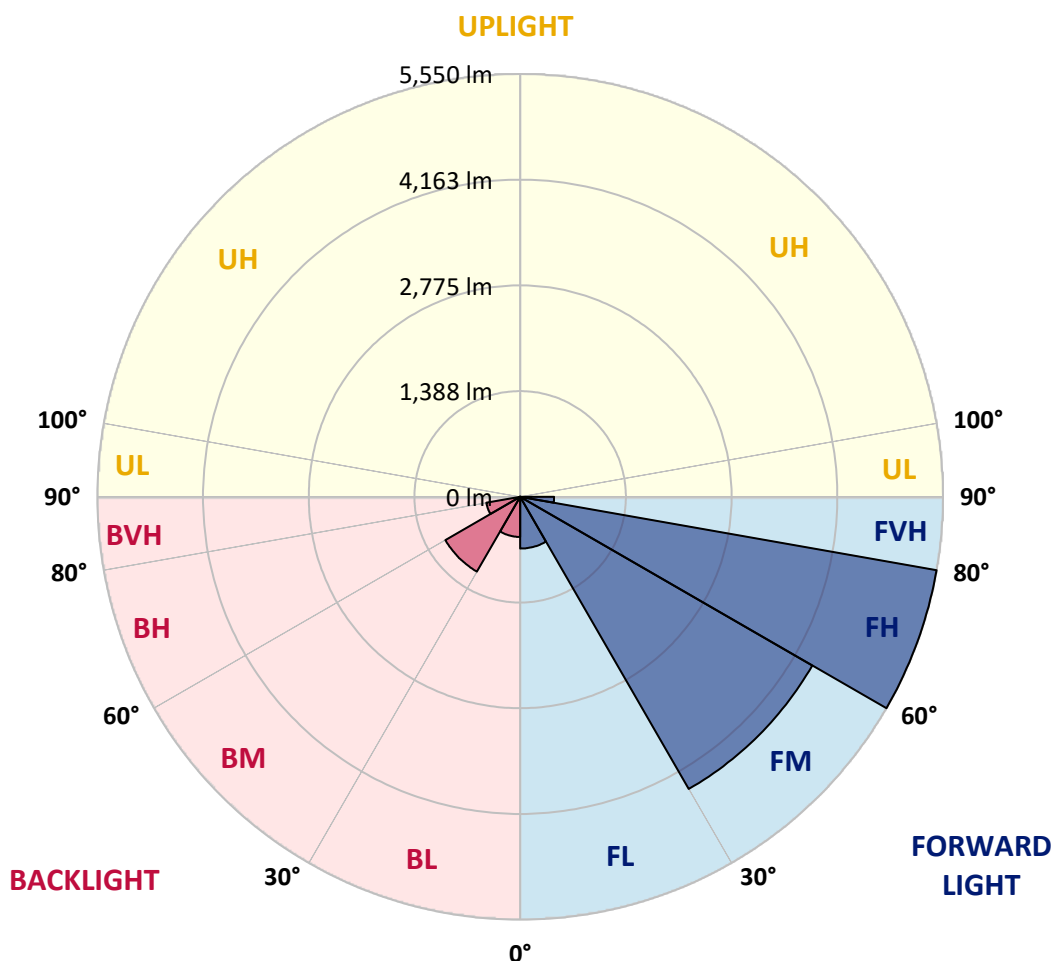
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	679.3	5.1			
FM (30°-60°)	4427.8	33.5			
FH (60°-80°)	5550.2	42.0			G3/7500
FVH (80°-90°)	445.3	3.4			G3/500
BL (0°-30°)	526.5	4.0	B2/1000		
BM (30°-60°)	1133.7	8.6	B2/2500		
BH (60°-80°)	450.9	3.4	B1/500		G1/500
BVH (80°-90°)	11.2	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°	40°	45°	55°	65°	75°	85°
0°	1431.6	1431.6	1431.6	1431.6	1431.6	1431.6	1431.6	1431.6	1431.6	1431.6	1431.6
2.5°	1489.5	1488.5	1478.7	1473.8	1460.0	1455.1	1456.1	1450.2	1436.5	1438.4	1424.7
5°	1491.5	1498.3	1483.6	1479.7	1474.8	1468.9	1475.7	1467.9	1456.1	1460.0	1445.3
7.5°	1500.3	1503.2	1496.4	1492.4	1480.7	1492.4	1491.5	1484.6	1476.7	1469.9	1464.0
10°	1503.2	1500.3	1486.5	1483.6	1483.6	1495.4	1500.3	1503.2	1503.2	1492.4	1488.5
12.5°	1488.5	1486.5	1472.8	1478.7	1491.5	1499.3	1515.0	1524.8	1540.5	1528.8	1522.9
15°	1465.9	1470.8	1476.7	1478.7	1502.3	1519.9	1534.7	1552.3	1578.8	1578.8	1576.9
17.5°	1472.8	1482.6	1489.5	1499.3	1521.9	1527.8	1548.4	1576.9	1621.1	1624.0	1628.9
20°	1507.2	1507.2	1509.1	1516.0	1535.6	1553.3	1571.0	1607.3	1658.4	1675.1	1680.0
22.5°	1544.5	1542.5	1551.3	1550.4	1566.1	1577.9	1600.4	1631.9	1695.7	1727.1	1739.9
25°	1574.9	1580.8	1588.7	1578.8	1609.3	1614.2	1631.9	1670.2	1737.9	1793.9	1821.4
27.5°	1627.0	1630.9	1628.9	1633.8	1664.3	1667.2	1683.9	1738.9	1801.7	1878.3	1938.2
30°	1716.3	1702.6	1704.5	1715.3	1759.5	1765.4	1783.1	1836.1	1886.2	1987.3	2081.6
32.5°	1839.0	1839.0	1817.4	1838.1	1889.1	1904.8	1931.3	2010.9	2060.0	2114.0	2269.1
35°	2073.7	2073.7	2058.0	2004.0	2029.5	2068.8	2117.9	2227.9	2379.1	2555.8	2720.8
37.5°	2462.5	2456.6	2394.8	2297.6	2242.6	2256.3	2304.4	2482.2	2727.6	3158.7	3285.3
40°	2926.9	2910.3	2794.4	2658.9	2518.5	2494.9	2517.5	2740.4	3089.9	3729.1	3777.2
42.5°	3339.3	3338.3	3168.5	3053.6	2873.9	2834.6	2808.1	3001.6	3453.2	4143.5	4160.2
45°	3733.1	3723.2	3558.3	3433.6	3269.6	3169.5	3162.6	3298.1	3835.2	4516.6	4445.9
47.5°	4083.6	4098.3	3913.7	3793.9	3612.3	3543.6	3488.6	3604.4	4186.7	4834.7	4688.4
50°	4487.1	4513.6	4237.7	4106.2	3922.6	3854.8	3885.2	3970.7	4537.2	5094.9	4904.4
52.5°	4996.7	4912.3	4638.3	4412.5	4241.7	4208.3	4215.2	4334.0	4942.7	5308.0	5054.7
55°	5596.6	5471.9	5197.0	4844.5	4565.7	4534.3	4531.3	4652.1	5317.8	5507.3	5170.5
57.5°	5822.5	5887.3	5779.3	5519.1	5026.2	4933.9	4862.2	4974.1	5654.6	5727.2	5292.3
60°	6343.8	6413.6	6334.0	6167.1	6000.2	5679.1	5364.9	5354.1	5968.8	5937.3	5343.3
62.5°	6401.8	6379.2	6732.7	6791.6	6890.7	6766.0	6533.3	5857.8	6252.5	6044.4	5383.6
65°	6077.8	6080.7	6554.9	6879.0	7564.3	7628.1	7483.8	6659.0	6465.6	6086.6	5355.1
67.5°	5229.4	5287.4	5719.4	6496.0	7862.8	7946.2	7824.5	7504.4	6580.5	6101.3	5231.4
70°	4494.0	4496.0	4904.4	5851.9	7705.7	7768.5	7712.6	7559.4	6536.3	5984.5	4895.6
72.5°	3536.7	3525.9	3884.3	4841.6	7150.9	7284.5	7254.0	7359.1	6374.3	5562.3	4165.1
75°	2553.8	2575.4	2938.7	3729.1	6151.4	6565.7	6713.0	7033.1	5796.9	4723.8	3053.6
77.5°	1788.0	1809.6	2158.1	2832.7	4964.3	5464.1	5700.7	5981.5	4698.2	3501.3	1565.1
80°	1169.4	1189.0	1488.5	2127.7	3700.7	4126.8	4304.5	4136.6	2759.0	1470.8	171.8
82.5°	679.5	717.7	945.5	1460.0	2593.1	2795.4	2805.2	2176.8	1031.0	131.6	80.5
85°	330.9	355.4	565.6	866.0	1418.8	1491.5	1383.5	810.0	240.6	62.8	46.1
87.5°	49.1	64.8	222.9	327.0	240.6	197.4	118.8	27.5	15.7	7.9	5.9
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°	1431.6	1431.6	1431.6	1431.6	1431.6	1431.6	1431.6	1431.6	1431.6	1431.6	1431.6
2.5°	1416.8	1415.9	1418.8	1406.0	1407.0	1391.3	1385.4	1382.5	1396.2	1394.3	1404.1
5°	1434.5	1424.7	1423.7	1392.3	1389.3	1369.7	1357.9	1340.2	1354.0	1351.0	1351.0
7.5°	1445.3	1435.5	1429.6	1392.3	1366.8	1332.4	1312.8	1299.0	1298.0	1295.1	1296.1
10°	1463.0	1458.1	1426.7	1385.4	1351.0	1306.9	1269.6	1248.0	1238.1	1239.1	1232.2
12.5°	1502.3	1492.4	1450.2	1401.1	1346.1	1285.3	1237.2	1198.9	1179.2	1175.3	1164.5
15°	1558.2	1547.4	1494.4	1438.4	1358.9	1287.2	1215.6	1147.8	1114.4	1100.7	1090.9
17.5°	1624.0	1607.3	1546.4	1482.6	1385.4	1285.3	1194.9	1103.6	1039.8	1003.5	1000.5
20°	1676.0	1668.2	1598.5	1529.7	1402.1	1272.5	1160.6	1039.8	944.6	877.8	864.0
22.5°	1744.8	1745.8	1668.2	1565.1	1415.9	1250.9	1106.6	950.4	820.8	731.5	715.8
25°	1843.9	1829.2	1741.8	1593.6	1418.8	1226.4	1032.9	838.5	669.6	569.5	551.8
27.5°	1962.8	1941.2	1801.7	1608.3	1406.0	1177.3	934.7	692.2	494.9	408.5	394.7
30°	2088.4	2037.4	1850.8	1614.2	1366.8	1097.7	795.3	505.7	350.5	289.7	283.8
32.5°	2249.5	2174.8	1893.0	1594.6	1306.9	977.0	616.6	346.6	242.5	210.1	212.1
35°	2579.4	2396.7	1958.8	1573.0	1222.4	825.8	431.0	229.8	187.5	183.6	184.6
37.5°	3078.2	2788.5	2074.7	1541.5	1096.7	631.3	276.9	177.7	178.7	178.7	178.7
40°	3560.2	3216.6	2252.4	1479.7	942.6	441.8	182.6	167.9	172.8	171.8	172.8
42.5°	3903.9	3534.7	2439.0	1404.1	764.9	279.8	164.0	158.1	161.0	160.0	163.0
45°	4182.8	3807.7	2608.8	1297.0	572.4	182.6	161.0	150.2	147.3	146.3	149.2
47.5°	4388.9	3987.4	2730.6	1163.5	381.9	157.1	154.2	138.4	134.5	134.5	135.5
50°	4589.2	4160.2	2766.9	1011.3	235.6	153.2	145.3	128.6	122.7	120.8	122.7
52.5°	4728.7	4219.1	2774.8	839.5	158.1	149.2	134.5	116.8	110.0	109.0	110.0
55°	4847.5	4339.9	2710.9	625.4	141.4	140.4	124.7	105.1	97.2	101.1	103.1
57.5°	4876.9	4351.6	2583.3	413.4	140.4	128.6	113.9	94.3	88.4	92.3	93.3
60°	4951.6	4303.5	2424.2	254.3	137.5	114.9	101.1	83.5	79.5	80.5	82.5
62.5°	4887.7	4277.0	2152.3	177.7	126.7	105.1	94.3	76.6	69.7	68.7	68.7
65°	4822.9	4120.9	1645.6	147.3	112.9	98.2	85.4	67.7	59.9	56.0	56.0
67.5°	4616.7	3771.4	939.6	136.5	102.1	90.3	77.6	61.9	52.0	47.1	45.2
70°	4097.3	3021.2	289.7	124.7	103.1	84.4	71.7	54.0	45.2	38.3	37.3
72.5°	3208.7	1889.1	135.5	110.0	106.0	78.5	66.8	50.1	40.3	32.4	31.4
75°	1888.1	452.6	111.0	81.5	90.3	83.5	65.8	48.1	35.3	26.5	25.5
77.5°	410.4	110.0	99.2	55.0	67.7	80.5	62.8	42.2	31.4	20.6	19.6
80°	99.2	86.4	90.3	42.2	45.2	56.0	51.1	36.3	28.5	16.7	15.7
82.5°	66.8	64.8	79.5	26.5	22.6	20.6	21.6	22.6	23.6	12.8	11.8
85°	44.2	56.0	42.2	14.7	12.8	10.8	10.8	9.8	13.7	7.9	7.9
87.5°	6.9	5.9	6.9	5.9	5.9	4.9	3.9	3.9	2.9	3.9	3.9
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)