

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: P509310

Luminaire Tested: **VERD-CA2-70-730-U-T3-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-70-730-U-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 980mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9673 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

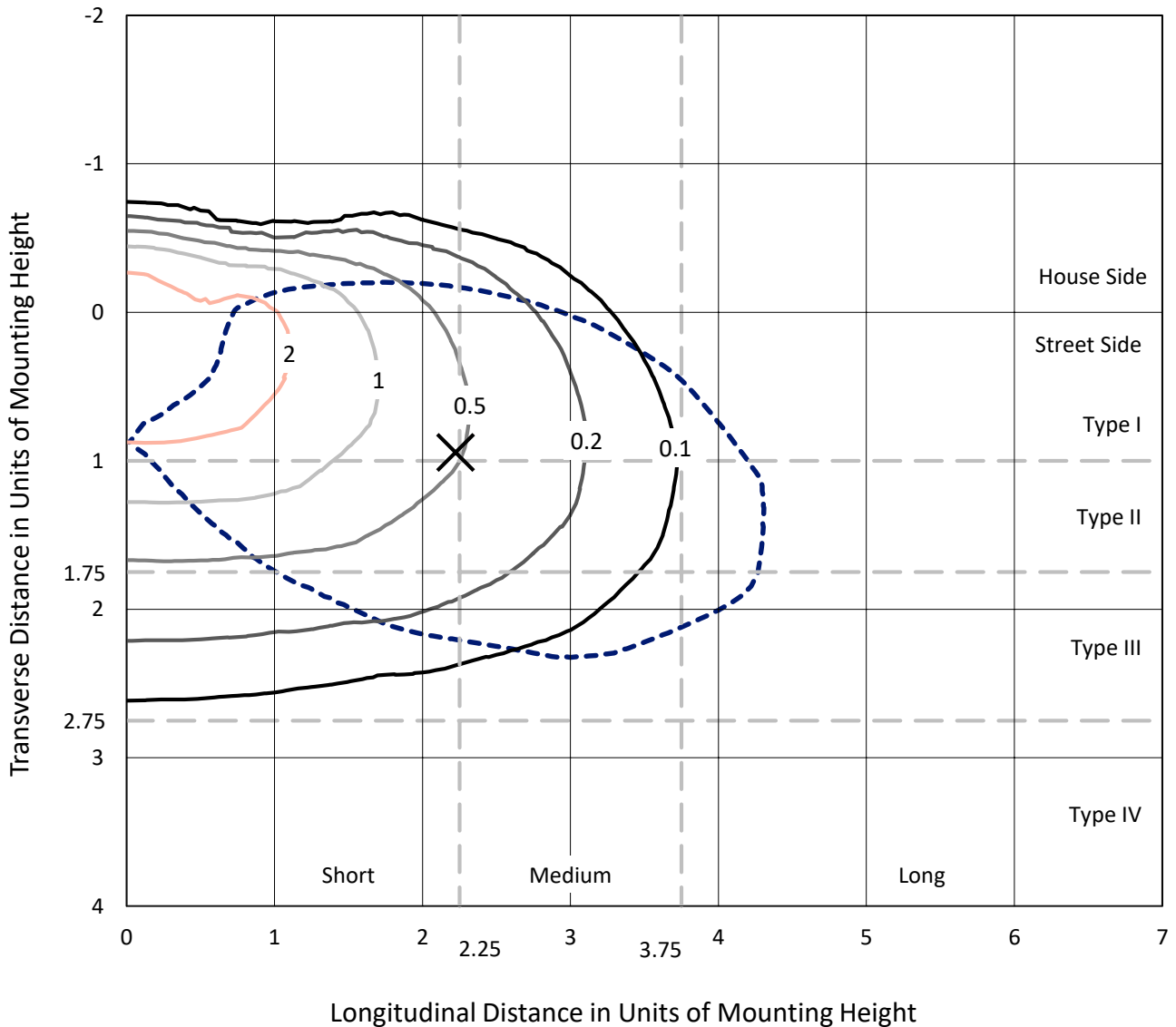
Input Watts (W): 73.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

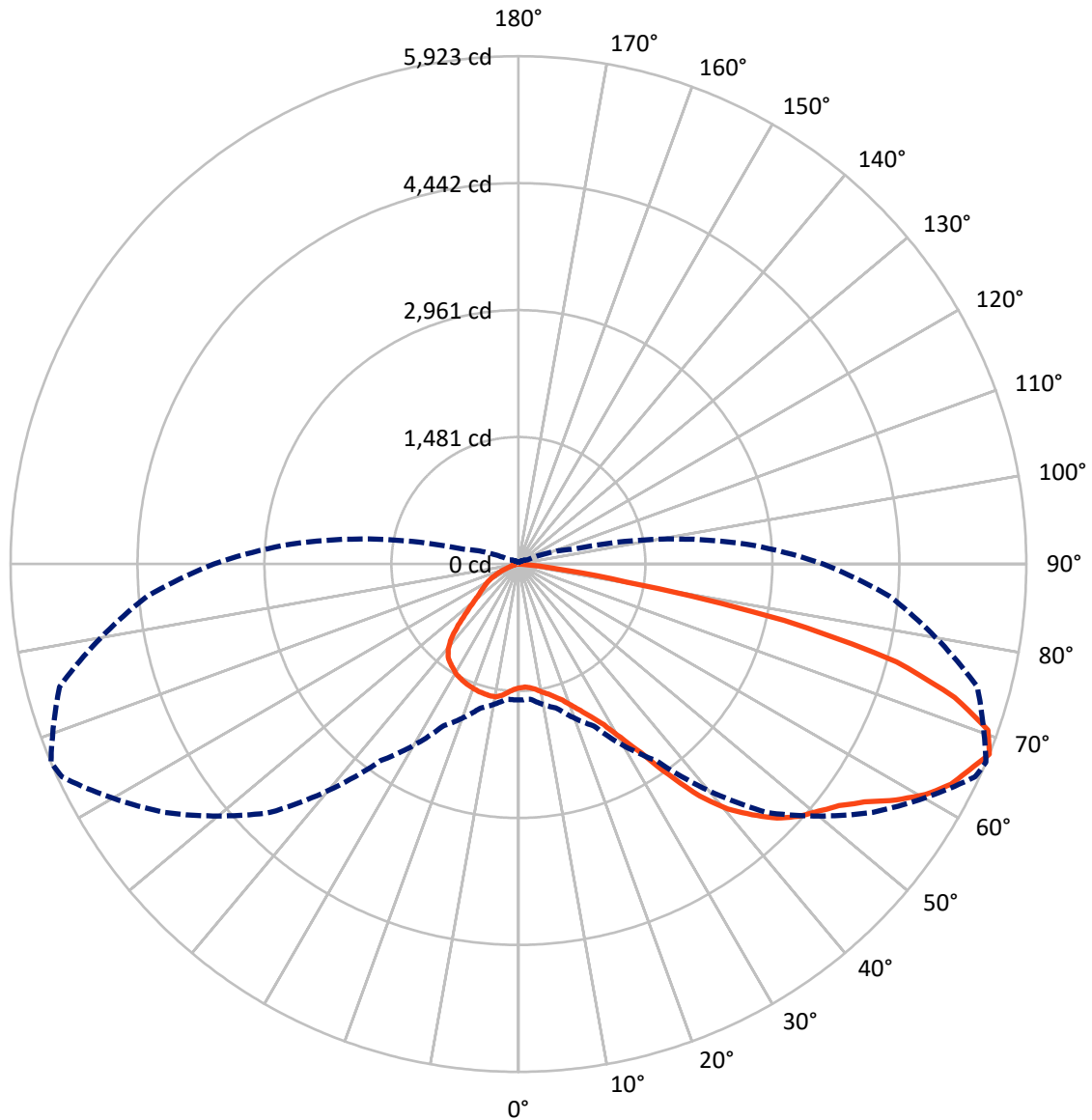
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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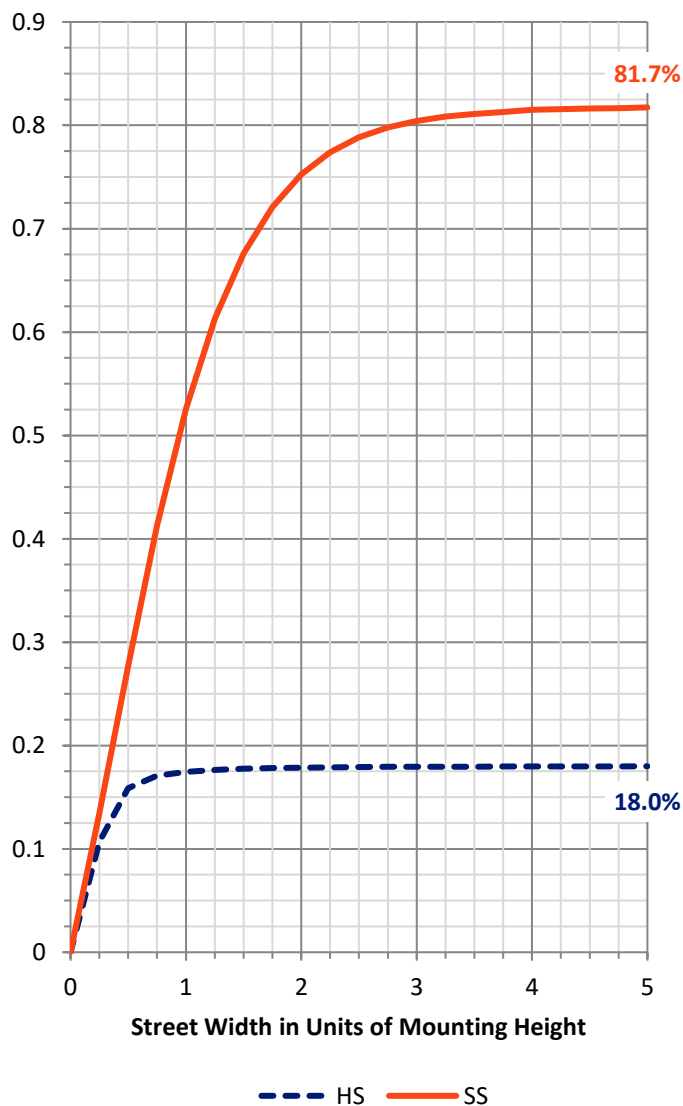
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1762.5	0.0	1762.5
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	7910.5	0.0	7910.5
	% Fixture	81.8	0.0	81.8
Total	Lumens	9673.0	0.0	9673.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.7	1.5
10°-20°	453.2	4.7
20°-30°	773.3	8.0
30°-40°	1203.7	12.4
40°-50°	1699.2	17.6
50°-60°	2046.5	21.2
60°-70°	2114.9	21.9
70°-80°	1165.1	12.0
80°-90°	72.6	0.8
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°	9673.0	100.0
0°-180°	9673.0	100.0

Coefficient of Utilization



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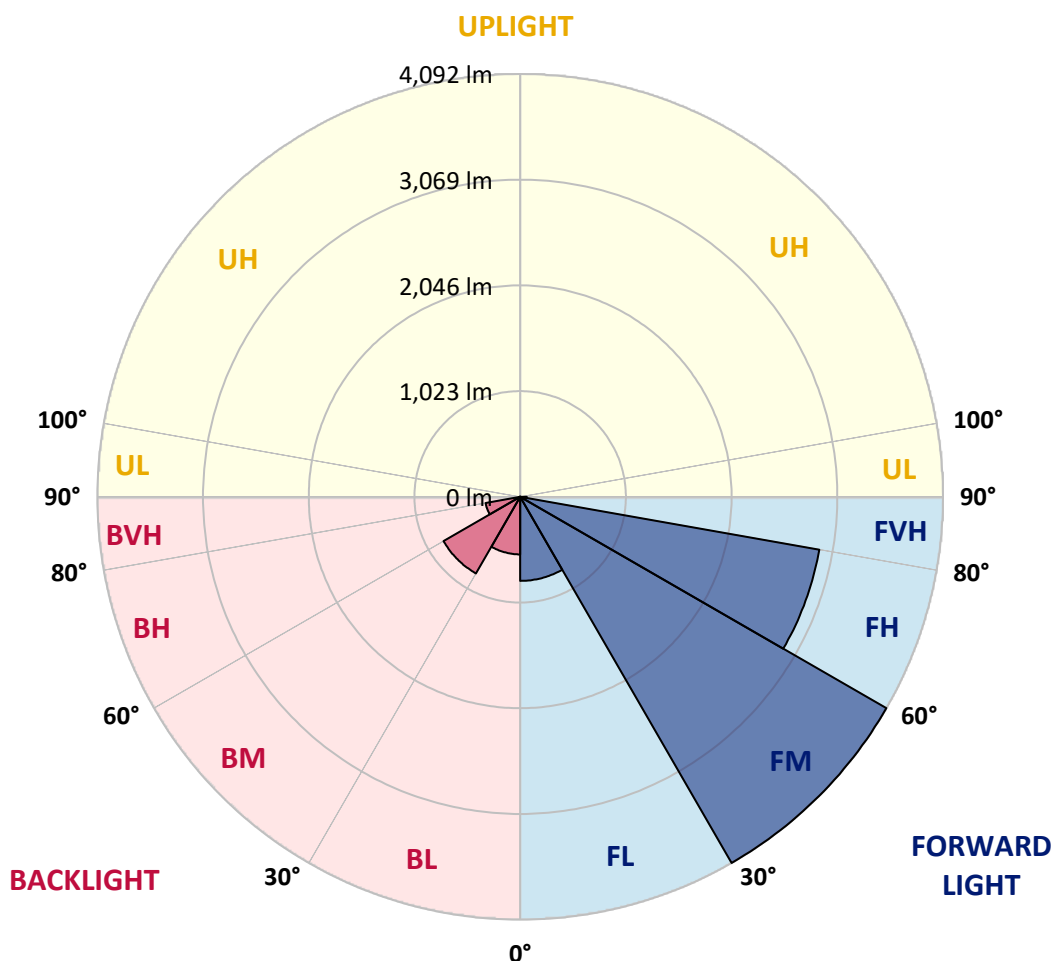
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	813.9	8.4			
FM (30°-60°)	4092.5	42.3			
FH (60°-80°)	2940.2	30.4			G2/5000
FVH (80°-90°)	63.9	0.7			G1/100
BL (0°-30°)	557.3	5.8	B2/1000		
BM (30°-60°)	856.8	8.9	B1/1000		
BH (60°-80°)	339.7	3.5	B1/500		G1/500
BVH (80°-90°)	8.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1444.3	1444.3	1444.3	1444.3	1444.3	1444.3	1444.3	1444.3	1444.3	1444.3	1444.3
2.5°	1430.9	1445.4	1445.4	1440.9	1443.2	1433.1	1426.4	1434.2	1436.5	1443.2	1452.1
5°	1458.8	1475.6	1474.5	1466.7	1460.0	1451.0	1442.0	1448.8	1449.9	1452.1	1463.3
7.5°	1518.2	1533.9	1527.1	1519.3	1515.9	1495.8	1476.8	1475.6	1477.9	1484.6	1496.9
10°	1595.4	1607.8	1605.5	1593.2	1584.2	1554.0	1527.1	1517.1	1518.2	1520.4	1541.7
12.5°	1682.8	1699.6	1687.2	1670.4	1654.8	1611.1	1574.2	1559.6	1557.4	1563.0	1580.9
15°	1769.0	1786.9	1777.9	1767.9	1732.0	1683.9	1636.9	1613.3	1611.1	1611.1	1622.3
17.5°	1882.1	1888.8	1883.2	1868.6	1828.3	1767.9	1711.9	1677.2	1671.6	1674.9	1677.2
20°	2007.4	2019.8	2013.0	1997.4	1939.2	1874.2	1803.7	1762.3	1758.9	1762.3	1741.0
22.5°	2159.7	2164.2	2160.8	2135.1	2082.5	1996.3	1903.3	1856.3	1856.3	1859.7	1816.0
25°	2289.6	2316.5	2308.6	2277.3	2215.7	2140.7	2028.7	1970.5	1973.9	1976.1	1915.6
27.5°	2440.7	2463.1	2457.5	2434.0	2393.7	2298.5	2164.2	2126.1	2122.8	2119.4	2025.4
30°	2585.2	2602.0	2613.2	2607.6	2575.1	2485.5	2365.7	2337.7	2346.7	2340.0	2177.6
32.5°	2702.7	2731.8	2763.2	2769.9	2760.9	2681.5	2594.1	2608.7	2619.9	2699.4	2602.0
35°	2803.5	2834.8	2886.3	2940.1	2950.2	2918.8	2875.1	2981.5	3014.0	3176.3	3073.3
37.5°	2908.7	2935.6	2987.1	3072.2	3128.2	3145.0	3187.5	3355.5	3433.8	3573.8	3382.3
40°	2956.9	2983.7	3073.3	3180.8	3297.2	3391.3	3476.4	3671.2	3758.5	3801.1	3552.5
42.5°	2908.7	2934.5	3078.9	3281.6	3439.4	3647.7	3744.0	3938.8	3997.0	3992.5	3761.9
45°	2861.7	2886.3	3037.5	3307.3	3568.2	3883.9	3965.6	4184.0	4226.5	4172.8	3882.8
47.5°	2801.2	2834.8	2991.6	3291.6	3683.5	4097.7	4172.8	4358.6	4396.7	4317.2	4021.6
50°	2727.4	2756.5	2939.0	3267.0	3759.6	4257.9	4337.3	4522.1	4532.2	4458.3	4147.0
52.5°	2642.3	2657.9	2856.1	3217.7	3825.7	4375.4	4466.1	4659.8	4683.3	4663.1	4295.9
55°	2515.7	2543.7	2756.5	3140.5	3830.2	4437.0	4565.7	4854.6	4897.1	4850.1	4386.6
57.5°	2382.5	2412.7	2633.3	3033.0	3764.1	4476.2	4747.1	5107.6	5191.6	5040.5	4460.5
60°	2235.8	2262.7	2479.9	2874.0	3646.5	4532.2	4934.1	5404.3	5456.9	5202.8	4509.8
62.5°	2065.7	2086.9	2294.1	2681.5	3466.3	4517.6	5095.3	5642.8	5659.6	5348.3	4505.3
65°	1858.5	1857.4	2050.0	2412.7	3170.7	4401.2	5124.4	5762.6	5782.8	5442.4	4465.0
67.5°	1585.4	1582.0	1743.2	2084.7	2797.9	4097.7	5047.2	5874.6	5922.7	5540.9	4347.4
70°	1242.8	1247.2	1369.3	1673.8	2270.6	3635.4	4843.4	5799.5	5809.6	5351.7	4042.9
72.5°	878.9	876.6	959.5	1165.5	1678.3	2838.2	4256.7	5287.9	5319.2	4883.7	3522.3
75°	403.1	419.9	627.0	712.1	1013.2	1932.4	3502.1	4493.0	4553.4	4204.1	2746.4
77.5°	75.0	77.3	134.4	270.9	396.3	697.5	2092.5	3043.1	3169.6	2865.1	1547.3
80°	59.3	60.5	79.5	129.9	165.7	313.5	688.6	1254.0	1281.9	1117.4	557.6
82.5°	43.7	44.8	59.3	84.0	77.3	135.5	286.6	365.0	387.4	360.5	221.7
85°	25.8	26.9	34.7	41.4	40.3	53.7	48.1	43.7	39.2	32.5	28.0
87.5°	6.7	9.0	14.6	14.6	11.2	10.1	9.0	7.8	9.0	7.8	7.8
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°	1444.3	1444.3	1444.3	1444.3	1444.3	1444.3	1444.3	1444.3	1444.3	1444.3	1444.3
2.5°	1454.4	1453.2	1456.6	1465.6	1473.4	1474.5	1485.7	1500.3	1493.6	1512.6	1505.9
5°	1470.0	1473.4	1485.7	1500.3	1513.7	1524.9	1541.7	1566.3	1558.5	1576.4	1569.7
7.5°	1505.9	1511.5	1530.5	1545.1	1560.7	1557.4	1571.9	1586.5	1568.6	1587.6	1578.6
10°	1548.4	1555.1	1566.3	1571.9	1567.4	1565.2	1561.8	1559.6	1536.1	1549.5	1543.9
12.5°	1586.5	1587.6	1584.2	1569.7	1559.6	1532.7	1520.4	1514.8	1479.0	1489.1	1482.4
15°	1623.4	1607.8	1591.0	1557.4	1529.4	1488.0	1461.1	1437.6	1404.0	1417.4	1404.0
17.5°	1663.7	1640.2	1596.6	1547.3	1490.2	1429.7	1386.1	1348.0	1297.6	1295.4	1290.9
20°	1715.2	1680.5	1610.0	1529.4	1447.6	1357.0	1287.5	1223.7	1147.6	1137.5	1117.4
22.5°	1780.2	1728.7	1630.1	1505.9	1395.0	1280.8	1163.3	1058.0	961.7	931.5	920.3
25°	1855.2	1791.4	1641.3	1484.6	1344.6	1170.0	1009.9	873.3	760.2	727.7	718.8
27.5°	1949.2	1870.9	1658.1	1453.2	1264.0	1034.5	826.3	675.1	574.4	521.7	513.9
30°	2079.1	1959.3	1681.6	1421.9	1166.6	875.5	640.4	464.6	369.5	338.1	332.5
32.5°	2432.9	2169.8	1707.4	1365.9	1037.9	698.6	425.4	296.7	232.9	207.1	204.9
35°	2881.9	2554.9	1801.4	1302.1	882.2	484.8	264.2	176.9	142.2	132.1	132.1
37.5°	3171.8	2853.9	1958.2	1212.5	677.4	296.7	159.0	115.3	108.6	107.5	107.5
40°	3324.1	2986.0	2071.3	1089.4	453.4	172.4	112.0	99.6	97.4	95.2	95.2
42.5°	3517.8	3099.1	2168.7	922.6	263.1	120.9	98.5	90.7	87.3	85.1	85.1
45°	3625.3	3222.2	2107.1	724.4	150.0	108.6	90.7	81.7	78.4	78.4	78.4
47.5°	3730.5	3339.8	2028.7	520.6	127.6	99.6	85.1	76.1	72.8	75.0	75.0
50°	3850.3	3419.3	1904.4	389.6	120.9	92.9	77.3	69.4	67.2	70.5	70.5
52.5°	3962.3	3427.1	1705.2	311.2	112.0	86.2	71.7	63.8	61.6	63.8	63.8
55°	3994.7	3402.5	1648.1	247.4	106.4	79.5	67.2	59.3	53.7	53.7	52.6
57.5°	3986.9	3354.3	1509.2	209.4	99.6	72.8	61.6	52.6	45.9	43.7	43.7
60°	3960.0	3287.2	1362.6	182.5	92.9	67.2	54.9	44.8	38.1	35.8	35.8
62.5°	3926.5	3160.6	1155.4	159.0	86.2	64.9	45.9	36.9	32.5	30.2	30.2
65°	3785.4	2963.6	924.8	135.5	79.5	57.1	40.3	32.5	28.0	25.8	25.8
67.5°	3551.4	2663.5	668.4	115.3	73.9	48.1	35.8	28.0	23.5	22.4	21.3
70°	3202.1	2249.3	414.3	99.6	63.8	43.7	31.3	24.6	21.3	17.9	17.9
72.5°	2669.1	1761.1	217.2	78.4	50.4	36.9	28.0	22.4	17.9	15.7	14.6
75°	1876.5	1086.0	156.7	60.5	34.7	30.2	23.5	19.0	15.7	13.4	12.3
77.5°	905.8	373.9	109.7	44.8	24.6	22.4	17.9	15.7	12.3	11.2	11.2
80°	331.4	212.7	78.4	32.5	20.2	17.9	13.4	12.3	10.1	9.0	9.0
82.5°	148.9	100.8	44.8	21.3	14.6	13.4	10.1	7.8	7.8	7.8	7.8
85°	24.6	21.3	14.6	10.1	7.8	6.7	6.7	5.6	5.6	5.6	5.6
87.5°	6.7	6.7	5.6	5.6	4.5	3.4	2.2	2.2	2.2	3.4	3.4
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)