

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: P509388

Luminaire Tested: **VERD-CA2-90-722-U-T2-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509388
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-CA2-90-722-U-T2-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1250mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9603 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

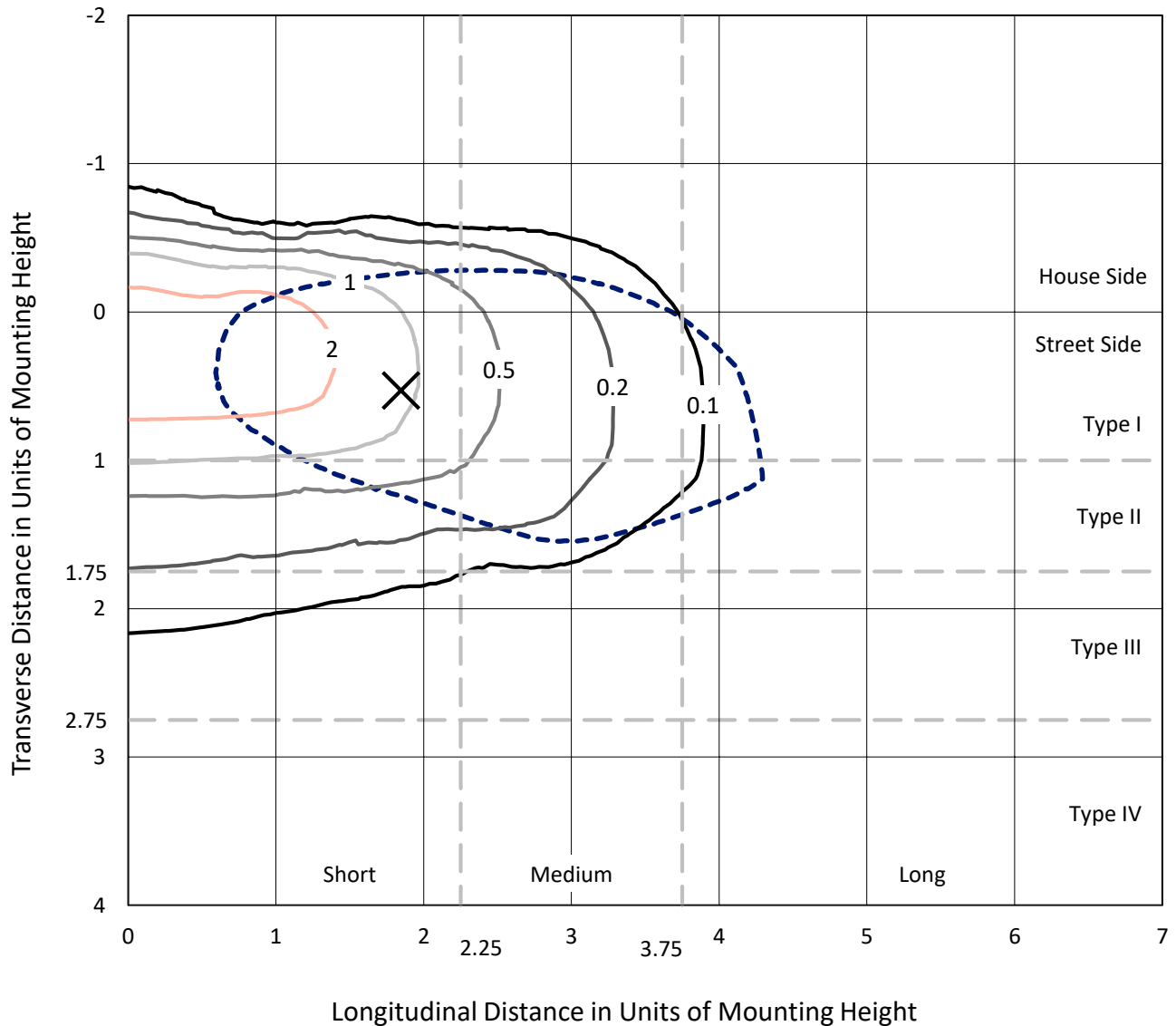
Input Watts (W): 94.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

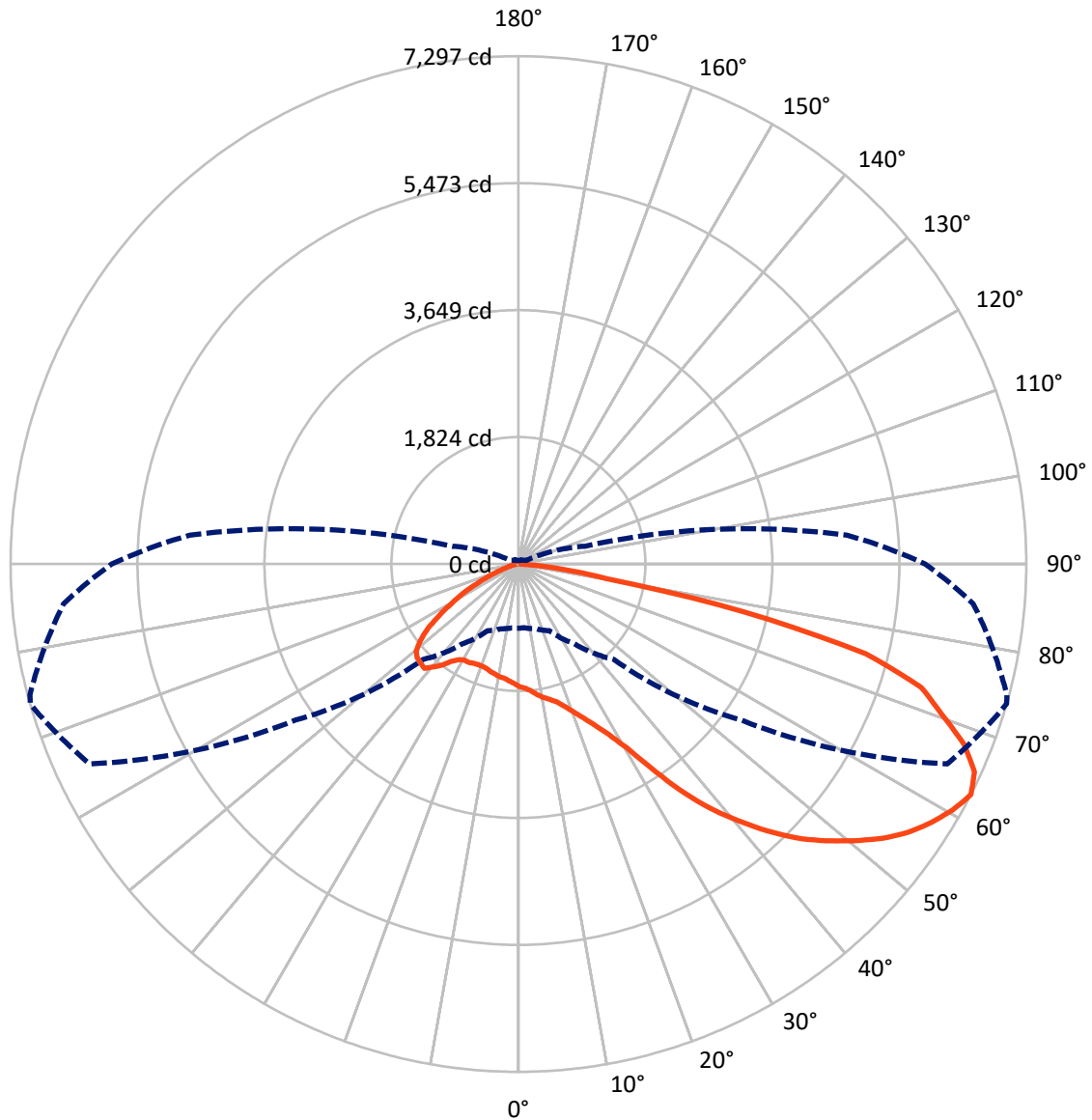
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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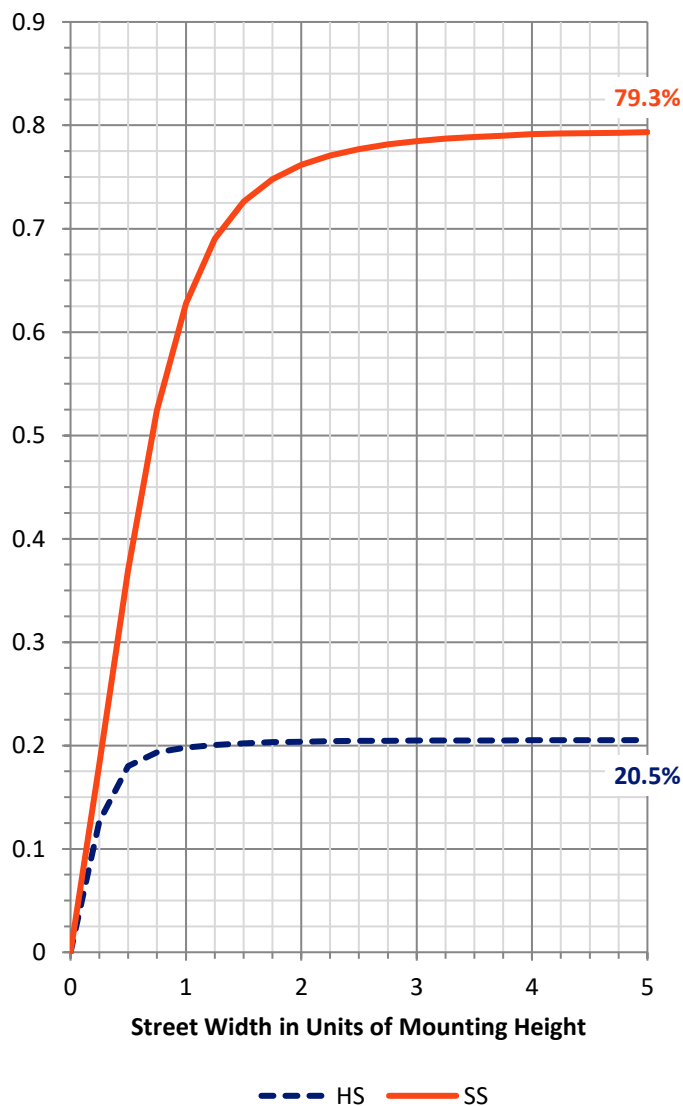
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1994.1	0.0	1994.1
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	7608.9	0.0	7608.9
	% Fixture	79.2	0.0	79.2
Total	Lumens	9603.0	0.0	9603.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.8	1.7
10°-20°	506.8	5.3
20°-30°	855.7	8.9
30°-40°	1272.8	13.3
40°-50°	1722.6	17.9
50°-60°	1981.9	20.6
60°-70°	1913.0	19.9
70°-80°	1083.1	11.3
80°-90°	99.3	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°	9603.0	100.0
0°-180°	9603.0	100.0

Coefficient of Utilization



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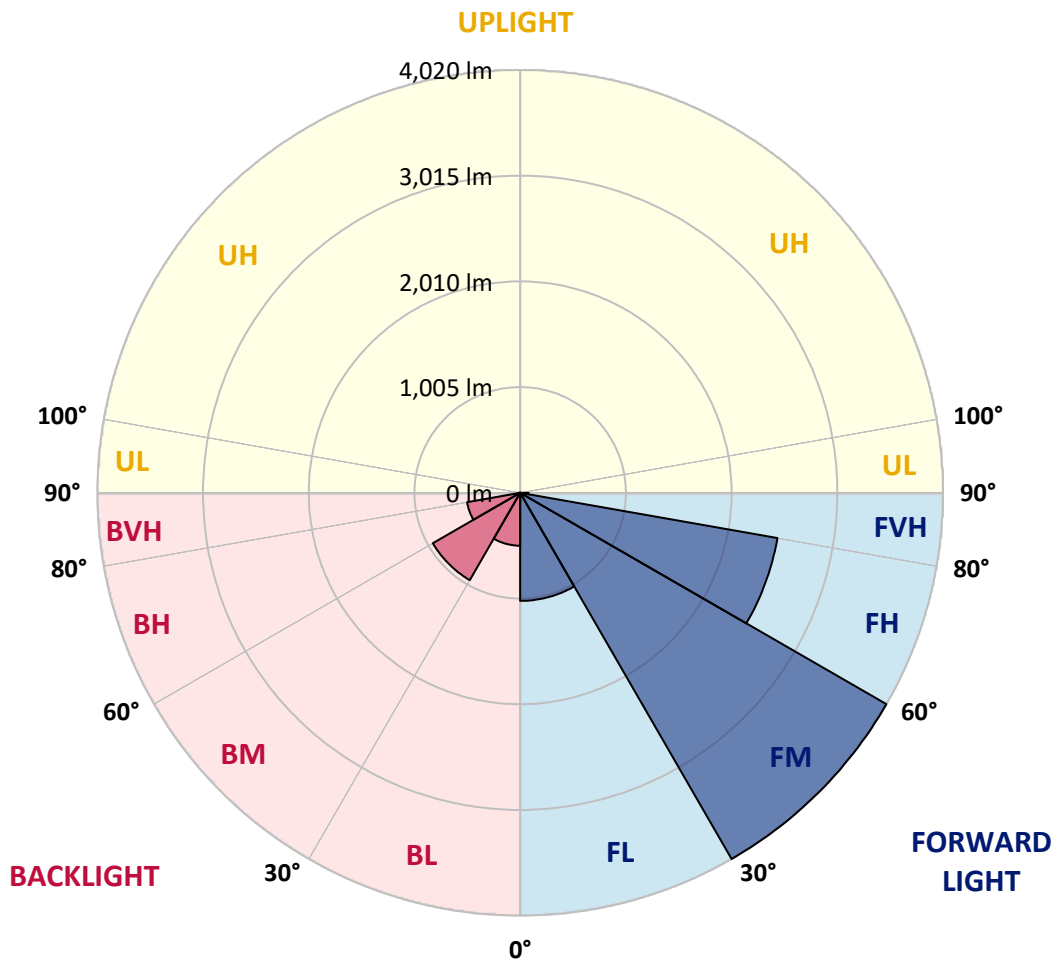
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1027.5	10.7			
FM (30°-60°)	4019.6	41.9			
FH (60°-80°)	2483.5	25.9			G2/5000
FVH (80°-90°)	78.3	0.8			G1/100
BL (0°-30°)	502.8	5.2	B2/1000		
BM (30°-60°)	957.6	10.0	B1/1000		
BH (60°-80°)	512.6	5.3	B2/1000		G2/1000
BVH (80°-90°)	21.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1760.2	1760.2	1760.2	1760.2	1760.2	1760.2	1760.2	1760.2	1760.2	1760.2	1760.2
2.5°	1919.3	1906.7	1896.4	1890.7	1874.6	1860.9	1833.4	1804.8	1785.4	1784.2	1765.9
5°	1999.4	1998.2	1975.3	1970.8	1949.0	1942.2	1914.7	1873.5	1825.4	1819.7	1770.5
7.5°	2104.7	2092.1	2066.9	2056.6	2031.4	2013.1	1976.5	1937.6	1889.5	1883.8	1797.9
10°	2206.5	2199.7	2184.8	2185.9	2150.4	2116.1	2061.2	1994.8	1949.0	1942.2	1836.9
12.5°	2324.4	2302.7	2277.5	2263.7	2228.3	2206.5	2153.9	2066.9	1994.8	1987.9	1882.6
15°	2405.7	2394.2	2371.3	2362.2	2327.8	2292.4	2231.7	2164.2	2055.5	2048.6	1929.6
17.5°	2492.6	2486.9	2460.6	2454.9	2421.7	2379.3	2332.4	2244.3	2149.3	2137.9	1985.6
20°	2551.0	2540.7	2537.3	2536.1	2527.0	2500.6	2441.1	2372.5	2267.2	2246.6	2057.7
22.5°	2628.8	2618.5	2623.1	2627.7	2640.3	2628.8	2589.9	2508.7	2404.5	2386.2	2171.0
25°	2636.8	2630.0	2660.9	2725.0	2750.1	2762.7	2733.0	2670.0	2569.3	2545.3	2306.1
27.5°	2658.6	2648.3	2681.5	2749.0	2862.3	2881.8	2887.5	2857.7	2773.0	2759.3	2489.2
30°	2619.7	2612.8	2664.3	2779.9	2906.9	3016.8	3059.1	3100.3	3061.4	3037.4	2744.4
32.5°	2524.7	2529.3	2596.8	2750.1	2984.8	3154.1	3264.0	3409.4	3479.2	3474.6	3196.5
35°	2386.2	2383.9	2497.2	2713.5	2991.6	3283.5	3488.3	3783.6	3979.3	3965.6	3671.4
37.5°	2268.3	2262.6	2390.8	2620.8	2997.3	3386.5	3751.5	4192.2	4440.5	4426.8	4059.4
40°	2124.1	2133.3	2247.7	2513.2	2949.3	3463.1	3980.4	4589.3	4843.4	4843.4	4461.1
42.5°	1978.8	1986.8	2100.1	2363.3	2879.5	3519.2	4195.6	4985.3	5243.9	5249.6	4736.9
45°	1851.7	1855.2	1958.2	2195.1	2753.6	3528.4	4393.6	5382.4	5619.3	5604.4	5051.7
47.5°	1628.6	1666.3	1827.7	2044.0	2581.9	3488.3	4560.7	5736.0	5942.0	5911.1	5351.5
50°	1297.8	1297.8	1521.0	1899.8	2385.1	3381.9	4692.3	6058.8	6248.8	6220.1	5613.6
52.5°	1192.5	1194.8	1263.5	1697.2	2185.9	3198.8	4767.8	6379.2	6549.8	6530.3	5861.9
55°	1136.5	1139.9	1171.9	1375.6	2005.1	2918.4	4770.1	6627.6	6805.0	6761.5	6071.4
57.5°	1051.8	1046.0	1113.6	1225.7	1793.4	2556.7	4658.0	6819.8	7003.0	6969.8	6243.0
60°	992.2	983.1	1028.9	1129.6	1565.6	2182.5	4359.3	6959.5	7172.3	7191.8	6411.3
62.5°	922.4	919.0	962.5	1057.5	1397.4	1937.6	3910.6	6797.0	7297.1	7266.2	6560.1
65°	852.6	845.8	887.0	961.3	1234.9	1737.3	3458.6	6556.6	7201.0	7228.4	6589.8
67.5°	761.1	759.9	798.8	853.8	1057.5	1513.0	2803.9	6240.7	6903.4	6883.9	6319.7
70°	650.1	650.1	689.0	737.0	883.5	1291.0	2152.7	5699.4	6445.6	6558.9	5857.4
72.5°	525.3	527.6	566.5	621.4	729.0	1051.8	1587.4	4956.7	6048.5	5866.5	5205.0
75°	280.4	251.8	444.1	500.1	588.3	838.9	1086.1	3222.8	5158.1	5032.2	4318.1
77.5°	67.5	71.0	139.6	259.8	313.6	464.7	534.5	1492.4	3325.8	3526.1	3079.7
80°	44.6	49.2	75.5	184.3	209.4	247.2	211.7	650.1	1289.8	1374.5	1787.6
82.5°	22.9	25.2	46.9	73.2	74.4	64.1	80.1	327.3	682.1	739.3	859.5
85°	8.0	12.6	24.0	32.0	29.8	24.0	19.5	81.3	161.4	179.7	186.5
87.5°	0.0	0.0	3.4	3.4	2.3	2.3	3.4	3.4	4.6	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1760.2	1760.2	1760.2	1760.2	1760.2	1760.2	1760.2	1760.2	1760.2	1760.2	1760.2
2.5°	1751.0	1738.4	1719.0	1698.4	1676.6	1658.3	1648.0	1653.7	1660.6	1638.9	1630.9
5°	1747.6	1725.8	1689.2	1645.7	1612.5	1579.4	1540.4	1531.3	1522.1	1510.7	1498.1
7.5°	1763.6	1731.6	1657.2	1617.1	1547.3	1485.5	1451.2	1426.0	1403.1	1382.5	1369.9
10°	1793.4	1733.9	1650.3	1569.1	1492.4	1416.8	1342.5	1327.6	1323.0	1293.2	1271.5
12.5°	1812.8	1739.6	1626.3	1527.9	1418.0	1336.7	1262.3	1220.0	1216.6	1202.8	1188.0
15°	1843.7	1762.5	1610.3	1476.4	1342.5	1256.6	1188.0	1133.0	1105.6	1104.4	1093.0
17.5°	1899.8	1788.8	1585.1	1423.7	1281.8	1185.7	1087.2	1066.6	1020.9	994.5	987.7
20°	1957.0	1827.7	1578.2	1371.1	1202.8	1083.8	1008.3	951.0	914.4	887.0	869.8
22.5°	2031.4	1883.8	1580.5	1340.2	1138.7	1007.1	908.7	824.0	756.5	723.3	707.3
25°	2139.0	1949.0	1597.7	1293.2	1063.2	924.7	781.7	669.5	574.5	550.5	539.0
27.5°	2276.3	2040.6	1621.7	1245.2	993.4	813.7	628.3	502.4	423.5	405.1	393.7
30°	2486.9	2177.9	1625.1	1215.4	930.4	669.5	470.4	372.0	310.1	290.7	293.0
32.5°	2882.9	2472.0	1670.9	1153.6	818.3	513.9	345.6	271.2	224.3	217.4	228.9
35°	3343.0	2818.8	1759.0	1121.6	690.1	372.0	247.2	199.1	169.4	178.5	183.1
37.5°	3639.4	3124.4	1899.8	1048.3	540.2	273.5	172.8	155.6	149.9	155.6	165.9
40°	3985.0	3372.7	2020.0	973.9	383.4	187.7	138.5	141.9	135.0	133.9	138.5
42.5°	4265.4	3627.9	2148.2	851.5	266.7	139.6	127.0	129.3	124.7	119.0	119.0
45°	4532.1	3848.8	2147.0	686.7	176.2	123.6	116.7	121.3	120.2	112.2	111.0
47.5°	4765.5	4072.0	2148.2	499.0	133.9	113.3	108.7	113.3	113.3	106.4	105.3
50°	5055.1	4257.4	2113.8	319.3	122.5	105.3	104.1	103.0	107.6	98.4	96.1
52.5°	5232.5	4392.4	1959.3	215.2	113.3	99.6	97.3	95.0	97.3	89.3	89.3
55°	5427.0	4560.7	1757.9	170.5	107.6	92.7	91.6	89.3	89.3	80.1	81.3
57.5°	5638.8	4698.0	1486.7	149.9	103.0	88.1	85.8	82.4	77.8	71.0	69.8
60°	5792.1	4726.6	1216.6	136.2	99.6	85.8	76.7	72.1	64.1	59.5	58.4
62.5°	5843.6	4741.5	986.5	122.5	93.8	79.0	68.7	60.7	51.5	48.1	48.1
65°	5801.3	4569.8	739.3	111.0	87.0	73.2	60.7	49.2	40.1	36.6	35.5
67.5°	5528.9	4254.0	537.9	99.6	76.7	66.4	52.6	40.1	32.0	28.6	28.6
70°	5033.3	3882.0	363.9	83.5	66.4	58.4	49.2	32.0	26.3	22.9	21.7
72.5°	4493.2	3291.5	232.3	67.5	51.5	45.8	35.5	27.5	21.7	17.2	17.2
75°	3553.6	2585.3	161.4	49.2	36.6	34.3	27.5	22.9	18.3	13.7	13.7
77.5°	2473.2	1680.1	127.0	37.8	25.2	22.9	20.6	17.2	14.9	11.4	10.3
80°	1434.0	1010.6	76.7	25.2	17.2	14.9	13.7	13.7	11.4	8.0	8.0
82.5°	711.9	421.2	33.2	16.0	11.4	10.3	9.2	8.0	8.0	5.7	5.7
85°	139.6	72.1	12.6	8.0	5.7	5.7	4.6	4.6	3.4	2.3	2.3
87.5°	4.6	3.4	3.4	3.4	2.3	2.3	1.1	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)