

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: P509396

Luminaire Tested: **VERD-CA2-90-727-U-T2-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509396
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-CA2-90-727-U-T2-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1250mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9978 lumens
Efficiency: N/A
Efficacy: 105.9 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

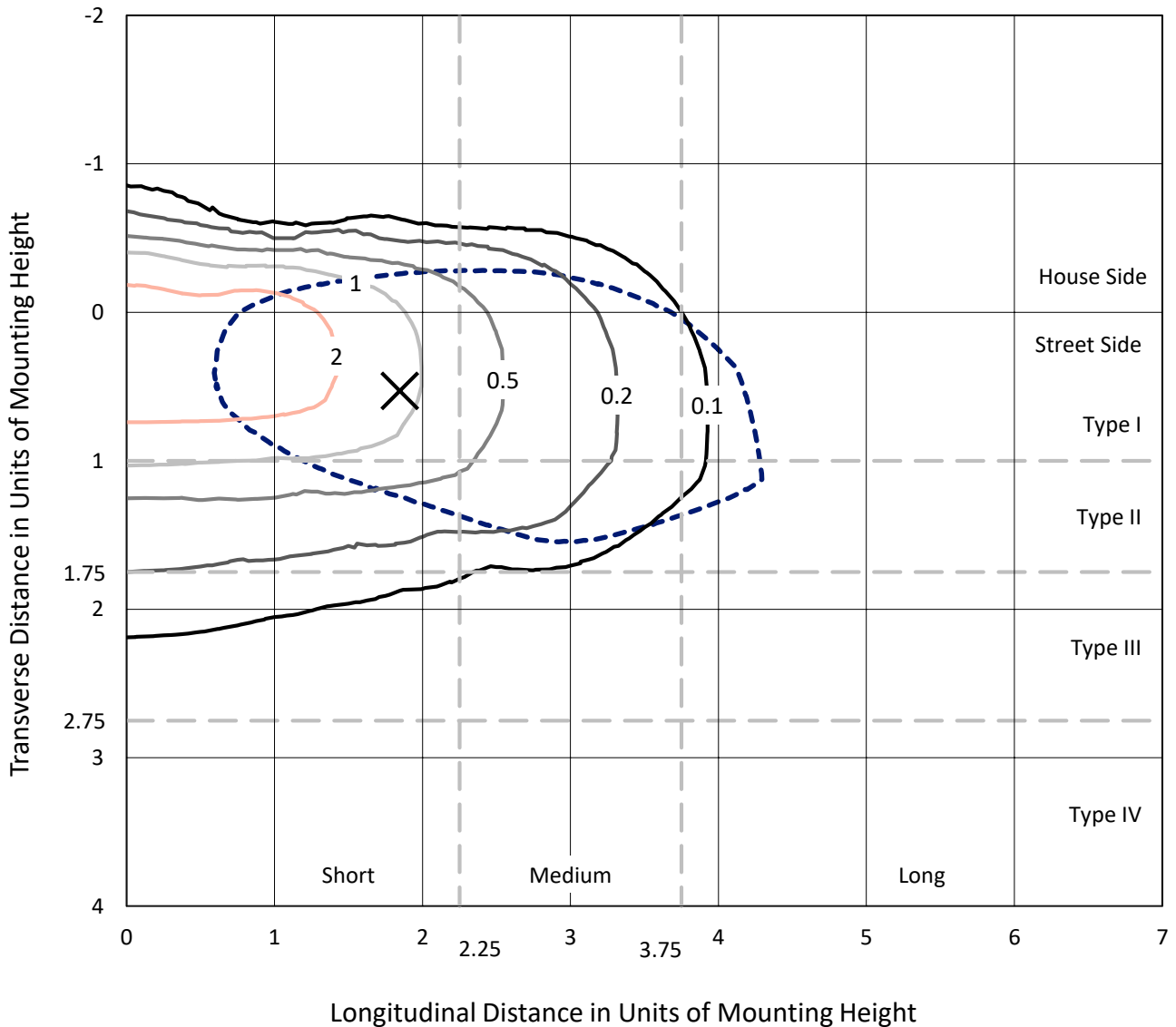
Input Watts (W): 94.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

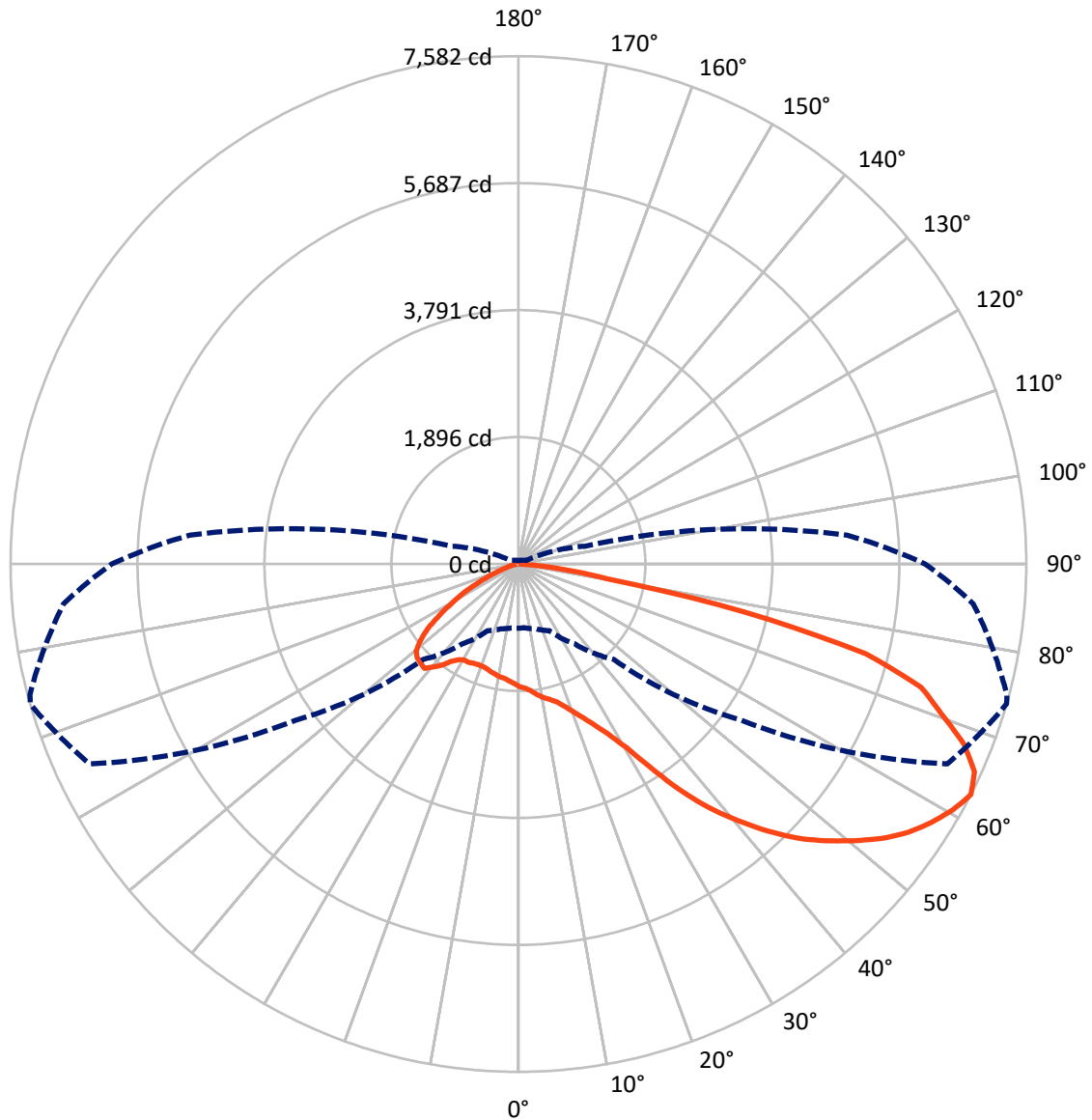
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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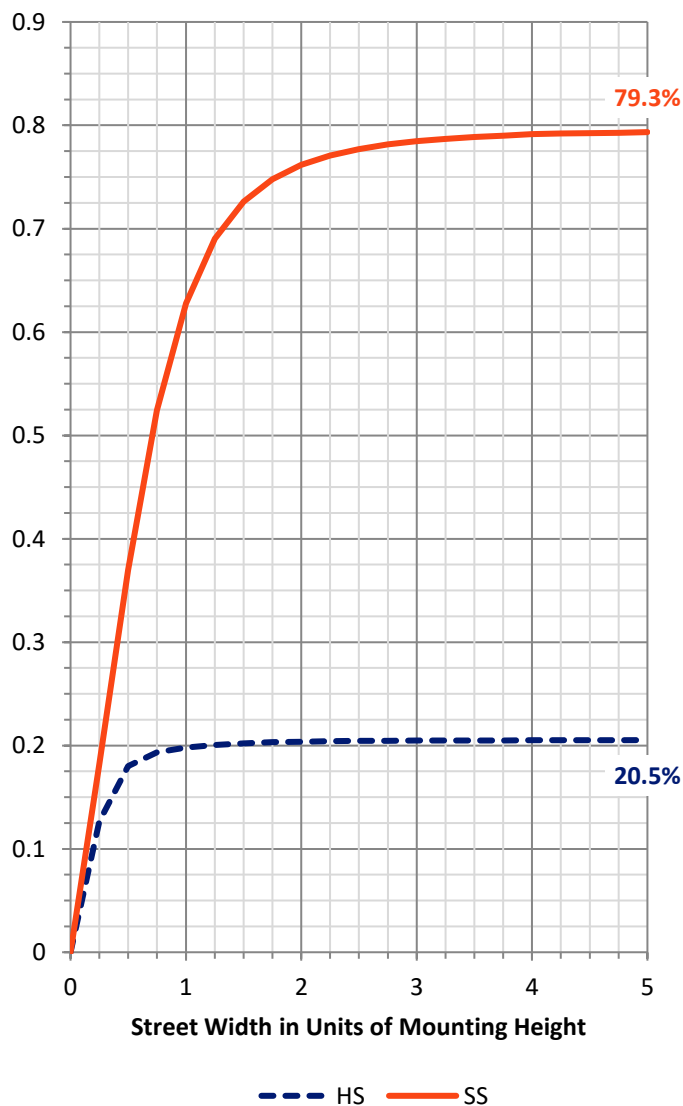
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2072.0	0.0	2072.0
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	7906.0	0.0	7906.0
	% Fixture	79.2	0.0	79.2
Total	Lumens	9978.0	0.0	9978.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.3	1.7
10°-20°	526.6	5.3
20°-30°	889.1	8.9
30°-40°	1322.5	13.3
40°-50°	1789.9	17.9
50°-60°	2059.2	20.6
60°-70°	1987.7	19.9
70°-80°	1125.4	11.3
80°-90°	103.2	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°	9978.0	100.0
0°-180°	9978.0	100.0

Coefficient of Utilization



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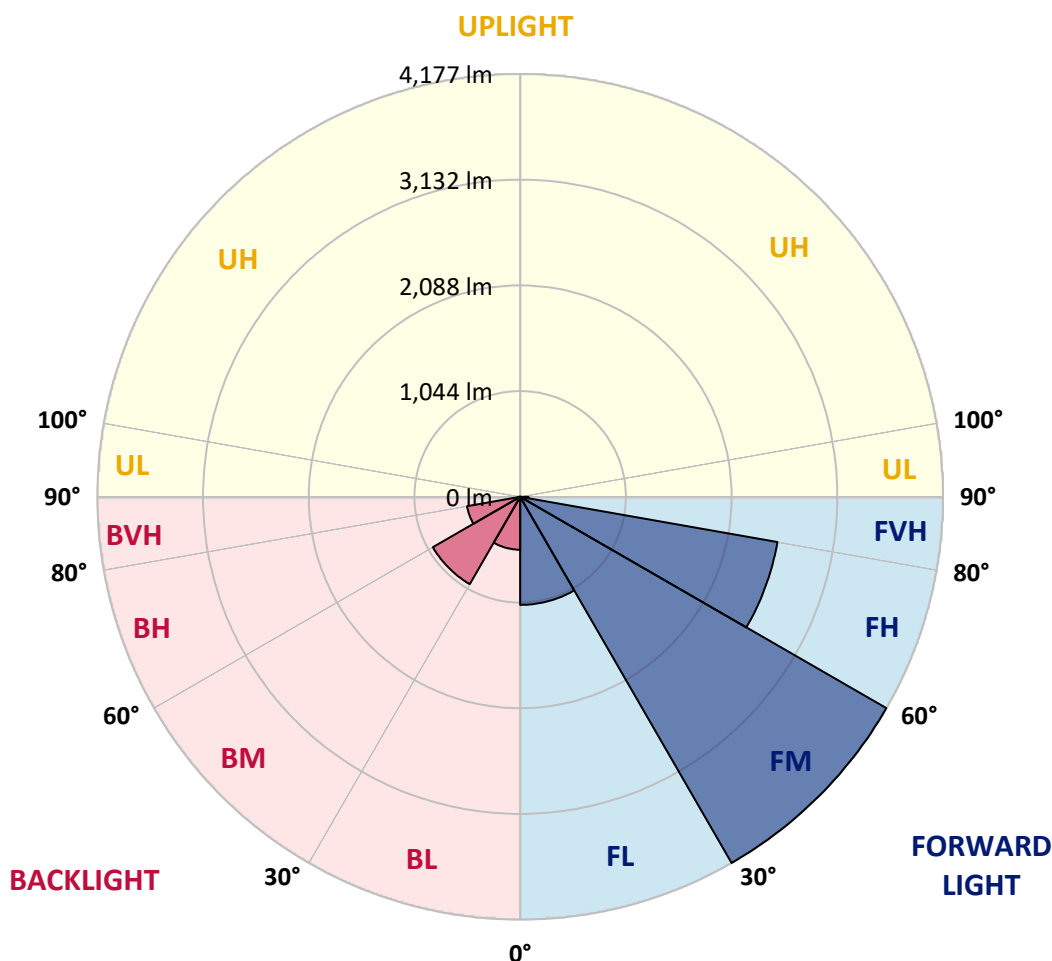
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1067.6	10.7			
FM (30°-60°)	4176.6	41.9			
FH (60°-80°)	2580.4	25.9			G2/5000
FVH (80°-90°)	81.4	0.8			G1/100
BL (0°-30°)	522.4	5.2	B2/1000		
BM (30°-60°)	995.0	10.0	B1/1000		
BH (60°-80°)	532.7	5.3	B2/1000		G2/1000
BVH (80°-90°)	21.9	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°	1828.9	1828.9	1828.9	1828.9	1828.9	1828.9	1828.9	1828.9	1828.9	1828.9	1828.9
2.5°	1994.2	1981.1	1970.4	1964.5	1947.8	1933.6	1905.0	1875.3	1855.1	1853.9	1834.9
5°	2077.5	2076.3	2052.5	2047.7	2025.1	2018.0	1989.5	1946.6	1896.7	1890.8	1839.6
7.5°	2186.9	2173.8	2147.6	2136.9	2110.7	2091.7	2053.7	2013.2	1963.3	1957.3	1868.2
10°	2292.7	2285.6	2270.1	2271.3	2234.4	2198.7	2141.7	2072.7	2025.1	2018.0	1908.6
12.5°	2415.2	2392.6	2366.4	2352.1	2315.3	2292.7	2238.0	2147.6	2072.7	2065.6	1956.2
15°	2499.6	2487.7	2463.9	2454.4	2418.7	2381.9	2318.8	2248.7	2135.7	2128.6	2004.9
17.5°	2590.0	2584.0	2556.7	2550.7	2516.2	2472.2	2423.5	2331.9	2233.2	2221.3	2063.2
20°	2650.6	2639.9	2636.4	2635.2	2625.7	2598.3	2536.5	2465.1	2355.7	2334.3	2138.1
22.5°	2731.5	2720.8	2725.5	2730.3	2743.4	2731.5	2691.1	2606.6	2498.4	2479.4	2255.8
25°	2739.8	2732.7	2764.8	2831.4	2857.5	2870.6	2839.7	2774.3	2669.6	2644.7	2396.1
27.5°	2762.4	2751.7	2786.2	2856.3	2974.1	2994.3	3000.2	2969.3	2881.3	2867.0	2586.4
30°	2722.0	2714.8	2768.3	2888.5	3020.4	3134.6	3178.6	3221.4	3181.0	3156.0	2851.6
32.5°	2623.3	2628.0	2698.2	2857.5	3101.3	3277.3	3391.5	3542.5	3615.0	3610.3	3321.3
35°	2479.4	2477.0	2594.7	2819.5	3108.4	3411.7	3624.5	3931.3	4134.7	4120.4	3814.8
37.5°	2356.9	2351.0	2484.1	2723.2	3114.4	3518.7	3898.0	4355.9	4613.9	4599.6	4217.9
40°	2207.1	2216.6	2335.5	2611.4	3064.4	3598.4	4135.9	4768.5	5032.5	5032.5	4635.3
42.5°	2056.0	2064.4	2182.1	2455.6	2991.9	3656.6	4359.4	5180.0	5448.7	5454.6	4921.9
45°	1924.1	1927.6	2034.6	2280.8	2861.1	3666.2	4565.2	5592.6	5838.7	5823.3	5248.9
47.5°	1692.2	1731.4	1899.1	2123.8	2682.7	3624.5	4738.8	5960.0	6174.1	6142.0	5560.5
50°	1348.5	1348.5	1580.4	1974.0	2478.2	3513.9	4875.5	6295.4	6492.8	6463.0	5832.8
52.5°	1239.1	1241.5	1312.8	1763.5	2271.3	3323.7	4954.0	6628.3	6805.5	6785.3	6090.8
55°	1180.8	1184.4	1217.7	1429.4	2083.4	3032.3	4956.4	6886.4	7070.7	7025.5	6308.5
57.5°	1092.8	1086.9	1157.0	1273.6	1863.4	2656.6	4839.9	7086.2	7276.4	7241.9	6486.8
60°	1031.0	1021.5	1069.0	1173.7	1626.8	2267.7	4529.5	7231.2	7452.4	7472.6	6661.6
62.5°	958.5	954.9	1000.1	1098.8	1452.0	2013.2	4063.3	7062.4	7582.0	7549.9	6816.2
65°	885.9	878.8	921.6	998.9	1283.1	1805.1	3593.6	6812.7	7482.2	7510.7	6847.1
67.5°	790.8	789.6	830.0	887.1	1098.8	1572.1	2913.4	6484.5	7173.0	7152.8	6566.5
70°	675.4	675.4	715.9	765.8	918.0	1341.4	2236.8	5922.0	6697.3	6815.0	6086.1
72.5°	545.8	548.2	588.6	645.7	757.5	1092.8	1649.4	5150.2	6284.7	6095.6	5408.3
75°	291.3	261.6	461.4	519.7	611.2	871.6	1128.5	3348.7	5359.5	5228.7	4486.7
77.5°	70.2	73.7	145.1	269.9	325.8	482.8	555.3	1550.7	3455.7	3663.8	3200.0
80°	46.4	51.1	78.5	191.5	217.6	256.9	220.0	675.4	1340.2	1428.2	1857.5
82.5°	23.8	26.2	48.8	76.1	77.3	66.6	83.2	340.1	708.7	768.2	893.1
85°	8.3	13.1	25.0	33.3	30.9	25.0	20.2	84.4	167.7	186.7	193.8
87.5°	0.0	0.0	3.6	3.6	2.4	2.4	3.6	3.6	4.8	3.6	3.6
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°	1828.9	1828.9	1828.9	1828.9	1828.9	1828.9	1828.9	1828.9	1828.9	1828.9	1828.9
2.5°	1819.4	1806.3	1786.1	1764.7	1742.1	1723.1	1712.4	1718.3	1725.5	1702.9	1694.5
5°	1815.8	1793.2	1755.2	1710.0	1675.5	1641.0	1600.6	1591.1	1581.6	1569.7	1556.6
7.5°	1832.5	1799.2	1721.9	1680.3	1607.7	1543.5	1507.8	1481.7	1457.9	1436.5	1423.4
10°	1863.4	1801.6	1714.8	1630.3	1550.7	1472.2	1394.9	1379.4	1374.7	1343.7	1321.1
12.5°	1883.6	1807.5	1689.8	1587.5	1473.4	1388.9	1311.6	1267.6	1264.1	1249.8	1234.3
15°	1915.7	1831.3	1673.1	1534.0	1394.9	1305.7	1234.3	1177.3	1148.7	1147.5	1135.6
17.5°	1974.0	1858.6	1647.0	1479.3	1331.9	1232.0	1129.7	1108.3	1060.7	1033.4	1026.2
20°	2033.5	1899.1	1639.8	1424.6	1249.8	1126.1	1047.6	988.2	950.1	921.6	903.8
22.5°	2110.7	1957.3	1642.2	1392.5	1183.2	1046.5	944.2	856.2	786.0	751.5	734.9
25°	2222.5	2025.1	1660.1	1343.7	1104.7	960.8	812.2	695.7	597.0	572.0	560.1
27.5°	2365.2	2120.3	1685.0	1293.8	1032.2	845.5	652.8	522.0	440.0	421.0	409.1
30°	2584.0	2263.0	1688.6	1262.9	966.8	695.7	488.7	386.5	322.3	302.0	304.4
32.5°	2995.5	2568.6	1736.2	1198.7	850.2	533.9	359.1	281.8	233.1	225.9	237.8
35°	3473.5	2928.9	1827.7	1165.4	717.1	386.5	256.9	206.9	176.0	185.5	190.3
37.5°	3781.5	3246.4	1974.0	1089.3	561.3	284.2	179.6	161.7	155.8	161.7	172.4
40°	4140.6	3504.4	2098.9	1012.0	398.4	195.0	143.9	147.5	140.3	139.1	143.9
42.5°	4432.0	3769.6	2232.0	884.7	277.1	145.1	132.0	134.4	129.6	123.7	123.7
45°	4709.0	3999.1	2230.9	713.5	183.1	128.4	121.3	126.1	124.9	116.5	115.3
47.5°	4951.6	4231.0	2232.0	518.5	139.1	117.7	113.0	117.7	117.7	110.6	109.4
50°	5252.5	4423.7	2196.4	331.8	127.2	109.4	108.2	107.0	111.8	102.3	99.9
52.5°	5436.8	4564.0	2035.8	223.6	117.7	103.5	101.1	98.7	101.1	92.8	92.8
55°	5639.0	4738.8	1826.5	177.2	111.8	96.3	95.1	92.8	92.8	83.2	84.4
57.5°	5859.0	4881.5	1544.7	155.8	107.0	91.6	89.2	85.6	80.9	73.7	72.5
60°	6018.3	4911.2	1264.1	141.5	103.5	89.2	79.7	74.9	66.6	61.8	60.6
62.5°	6071.8	4926.7	1025.1	127.2	97.5	82.1	71.3	63.0	53.5	49.9	49.9
65°	6027.8	4748.3	768.2	115.3	90.4	76.1	63.0	51.1	41.6	38.1	36.9
67.5°	5744.8	4420.1	558.9	103.5	79.7	69.0	54.7	41.6	33.3	29.7	29.7
70°	5229.9	4033.6	378.2	86.8	69.0	60.6	51.1	33.3	27.4	23.8	22.6
72.5°	4668.6	3420.0	241.4	70.2	53.5	47.6	36.9	28.5	22.6	17.8	17.8
75°	3692.3	2686.3	167.7	51.1	38.1	35.7	28.5	23.8	19.0	14.3	14.3
77.5°	2569.8	1745.7	132.0	39.2	26.2	23.8	21.4	17.8	15.5	11.9	10.7
80°	1490.0	1050.0	79.7	26.2	17.8	15.5	14.3	14.3	11.9	8.3	8.3
82.5°	739.7	437.6	34.5	16.6	11.9	10.7	9.5	8.3	8.3	5.9	5.9
85°	145.1	74.9	13.1	8.3	5.9	5.9	4.8	4.8	3.6	2.4	2.4
87.5°	4.8	3.6	3.6	3.6	2.4	2.4	1.2	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)