

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: P507633

Luminaire Tested: **VERD-S-CA1-60-730-U-T2**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-60-730-U-T2
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1150mA LED AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8574 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 63.3
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

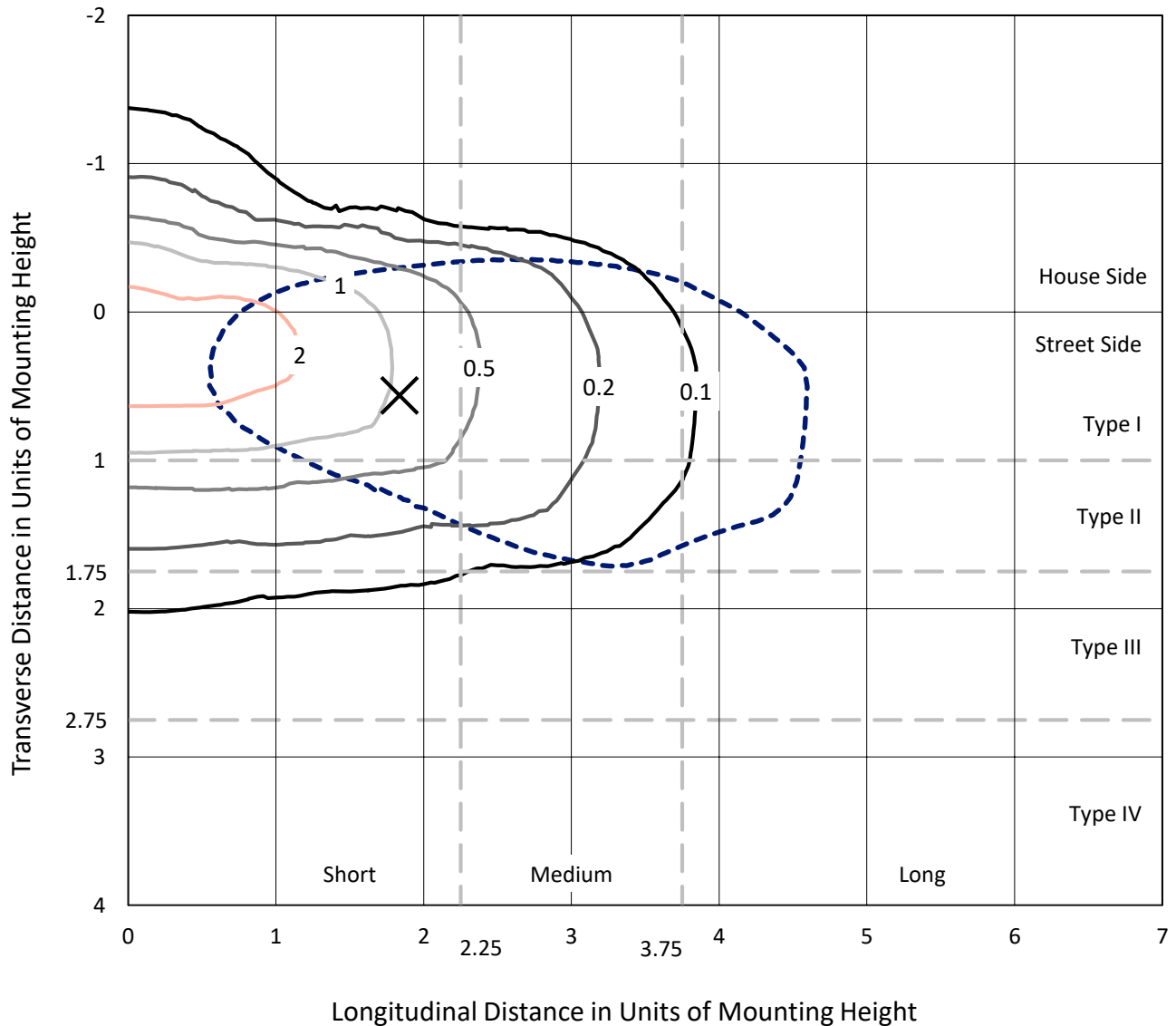


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Iso-Footcandle Lines of Horizontal Illumination

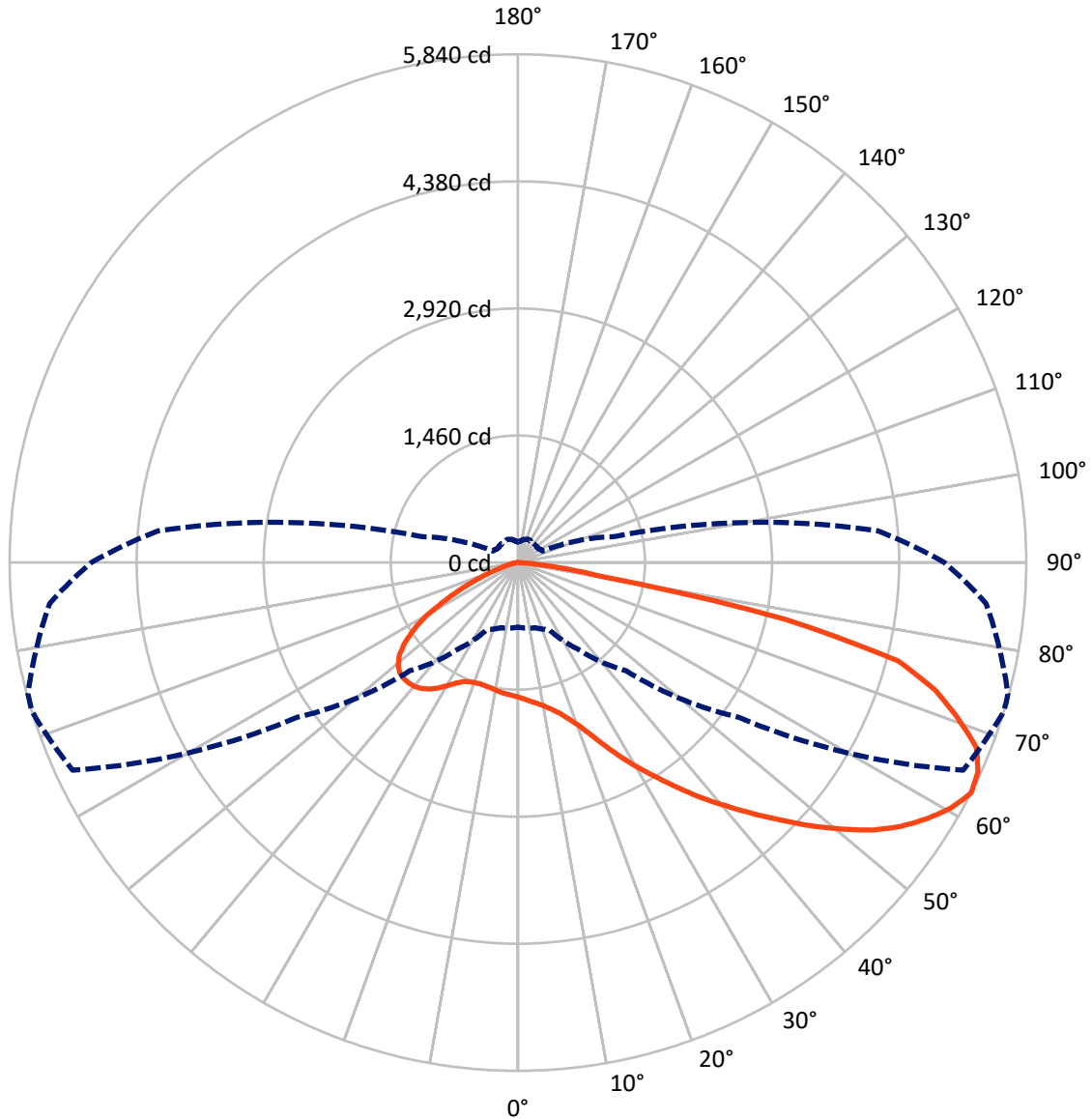
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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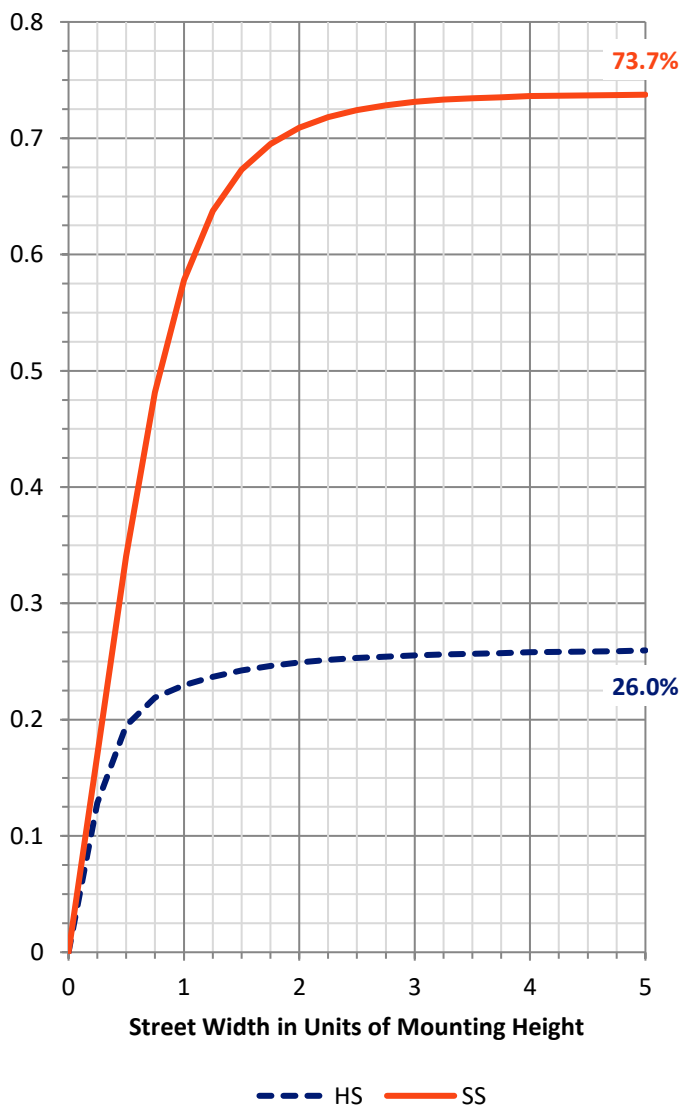
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2258.5	0.0	2258.5
	% Fixture	26.3	0.0	26.3
Street Side	Lumens	6315.5	0.0	6315.5
	% Fixture	73.7	0.0	73.7
Total	Lumens	8574.0	0.0	8574.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.7	1.7
10°-20°	457.5	5.3
20°-30°	791.9	9.2
30°-40°	1146.9	13.4
40°-50°	1469.0	17.1
50°-60°	1700.7	19.8
60°-70°	1712.6	20.0
70°-80°	1047.1	12.2
80°-90°	98.6	1.1
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°	8574.0	100.0
0°-180°	8574.0	100.0

Coefficient of Utilization



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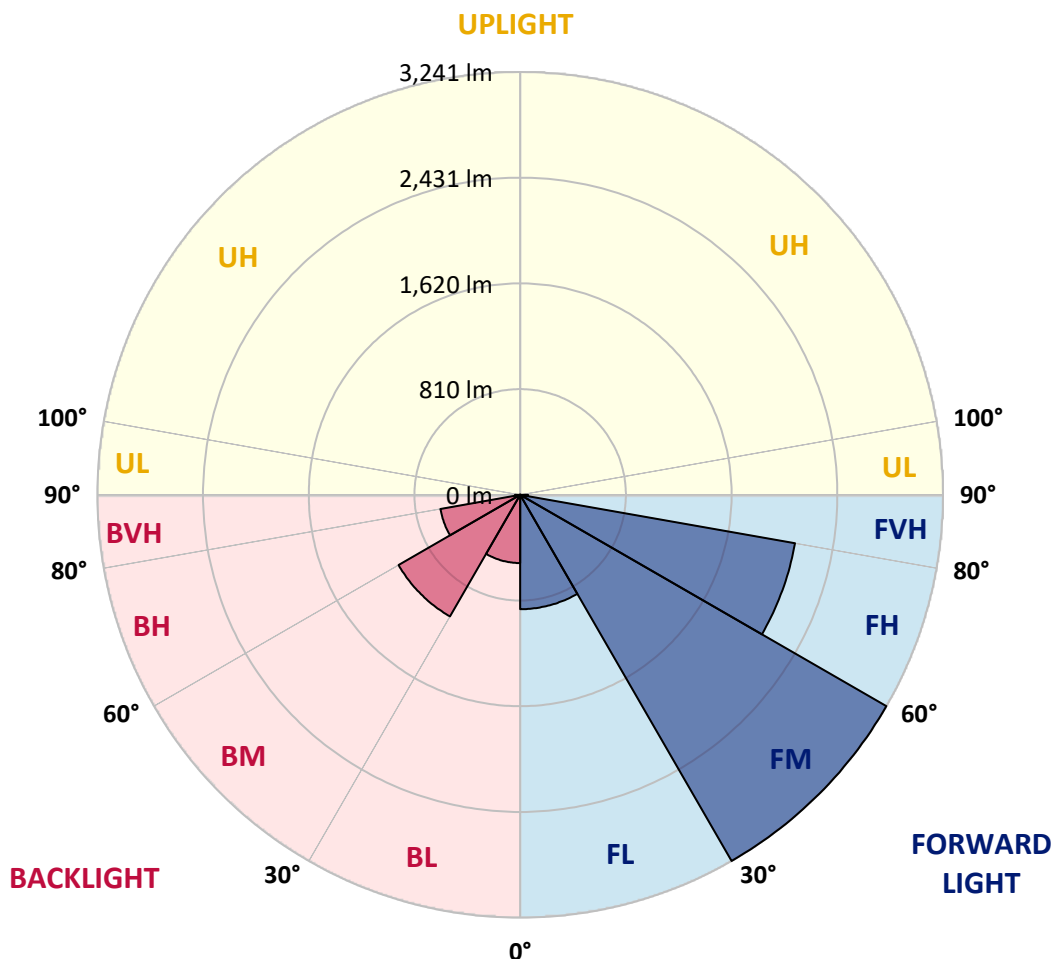
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	876.3	10.2			
FM	(30°-60°)	3240.7	37.8			
FH	(60°-80°)	2138.9	24.9			G2/5000
FVH	(80°-90°)	59.6	0.7			G1/100
BL	(0°-30°)	522.8	6.1	B2/1000		
BM	(30°-60°)	1075.9	12.5	B2/2500		
BH	(60°-80°)	620.8	7.2	B2/1000		G2/1000
BVH	(80°-90°)	39.0	0.5			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°	73°	75°	85°
0°	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7
2.5°	1628.4	1626.0	1621.2	1618.8	1613.9	1601.9	1594.6	1582.5	1572.9	1570.5	1556.0
5°	1708.2	1710.6	1708.2	1700.9	1691.3	1674.3	1650.2	1618.8	1604.3	1599.4	1575.3
7.5°	1783.1	1783.1	1780.7	1771.0	1761.3	1739.6	1705.8	1669.5	1635.7	1626.0	1594.6
10°	1855.6	1855.6	1848.3	1838.6	1824.1	1797.6	1763.7	1717.8	1676.8	1662.3	1609.1
12.5°	1932.9	1930.5	1920.8	1906.3	1887.0	1865.2	1829.0	1778.2	1732.3	1715.4	1640.5
15°	1993.3	1993.3	1986.0	1976.4	1959.4	1932.9	1899.0	1855.6	1795.2	1780.7	1684.0
17.5°	2046.4	2048.8	2044.0	2044.0	2029.5	2010.2	1981.2	1944.9	1887.0	1865.2	1749.2
20°	2089.9	2087.5	2097.2	2104.4	2109.2	2097.2	2080.2	2056.1	1998.1	1976.4	1833.8
22.5°	2109.2	2114.1	2143.1	2179.3	2201.1	2203.5	2201.1	2198.6	2147.9	2118.9	1949.8
25°	2118.9	2126.2	2169.6	2232.5	2280.8	2317.0	2355.7	2379.8	2333.9	2312.2	2123.7
27.5°	2128.6	2135.8	2186.6	2263.9	2355.7	2442.7	2520.0	2565.9	2532.1	2505.5	2302.5
30°	2111.7	2118.9	2176.9	2285.6	2416.1	2568.3	2677.0	2742.3	2737.4	2720.5	2507.9
32.5°	2075.4	2082.7	2147.9	2283.2	2478.9	2696.4	2817.2	2925.9	2947.6	2930.7	2713.3
35°	2010.2	2019.8	2094.7	2254.2	2507.9	2802.7	2964.5	3124.0	3179.6	3182.0	2938.0
37.5°	1920.8	1925.6	2017.4	2198.6	2517.6	2877.6	3087.8	3314.9	3428.4	3430.8	3167.5
40°	1800.0	1812.1	1925.6	2128.6	2495.8	2930.7	3211.0	3522.7	3672.5	3655.5	3416.3
42.5°	1662.3	1671.9	1783.1	2017.4	2445.1	2962.1	3324.5	3740.1	3938.2	3928.6	3650.7
45°	1539.0	1553.5	1638.1	1862.8	2348.4	2969.4	3423.6	3957.5	4213.7	4201.6	3889.9
47.5°	1374.8	1411.0	1524.6	1725.1	2203.5	2938.0	3513.0	4252.3	4518.1	4501.2	4141.2
50°	1058.2	1070.3	1309.5	1609.1	2039.2	2860.6	3590.3	4525.3	4812.8	4800.8	4404.5
52.5°	954.4	964.0	1041.3	1476.2	1874.9	2722.9	3636.2	4875.7	5107.6	5073.8	4641.3
55°	896.4	906.0	949.5	1179.0	1732.3	2515.1	3645.9	5172.8	5346.8	5315.4	4863.6
57.5°	843.2	850.5	891.5	1009.9	1568.0	2227.6	3595.1	5412.0	5549.7	5518.3	5064.1
60°	787.6	794.9	838.4	918.1	1365.1	1964.3	3428.4	5598.1	5721.3	5689.9	5245.3
62.5°	741.7	753.8	775.6	850.5	1220.1	1758.9	3102.3	5644.0	5839.7	5827.6	5400.0
65°	686.2	691.0	724.8	785.2	1077.6	1616.4	2751.9	5511.1	5808.3	5830.0	5491.8
67.5°	623.4	625.8	657.2	700.7	901.2	1476.2	2440.2	5332.3	5682.6	5718.9	5424.1
70°	538.8	541.2	570.2	616.1	746.6	1280.5	2118.9	5068.9	5361.3	5395.1	5163.2
72.5°	449.4	449.4	473.6	524.3	616.1	1060.7	1696.1	4491.5	5015.8	5071.4	4737.9
75°	195.7	203.0	244.0	292.3	398.7	780.4	1157.3	3476.7	4508.4	4547.1	4153.3
77.5°	53.2	53.2	62.8	82.1	116.0	347.9	367.2	1529.4	3140.9	3240.0	3070.8
80°	43.5	43.5	48.3	62.8	79.7	171.5	123.2	492.9	971.3	1280.5	1592.2
82.5°	24.2	24.2	29.0	36.2	43.5	43.5	43.5	251.3	478.4	509.8	666.8
85°	12.1	14.5	14.5	16.9	16.9	14.5	14.5	50.7	91.8	103.9	159.5
87.5°	4.8	4.8	4.8	4.8	2.4	2.4	4.8	7.2	7.2	9.7	12.1
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°	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7
2.5°	1551.1	1543.9	1534.2	1527.0	1512.5	1498.0	1488.3	1481.1	1478.6	1476.2	1476.2
5°	1560.8	1548.7	1522.1	1495.6	1473.8	1454.5	1437.6	1425.5	1420.7	1418.2	1418.2
7.5°	1575.3	1558.4	1514.9	1476.2	1437.6	1408.6	1382.0	1365.1	1355.4	1357.8	1365.1
10°	1582.5	1556.0	1498.0	1459.3	1408.6	1362.7	1331.3	1311.9	1304.7	1304.7	1302.3
12.5°	1601.9	1563.2	1485.9	1425.5	1382.0	1319.2	1282.9	1266.0	1256.4	1241.9	1237.0
15°	1630.9	1582.5	1481.1	1401.3	1333.7	1278.1	1229.8	1205.6	1198.4	1179.0	1179.0
17.5°	1684.0	1616.4	1481.1	1374.8	1287.8	1234.6	1171.8	1138.0	1133.1	1121.1	1118.6
20°	1746.8	1662.3	1493.1	1348.2	1239.5	1169.4	1099.3	1065.5	1053.4	1041.3	1041.3
22.5°	1845.9	1732.3	1514.9	1328.8	1188.7	1101.7	1024.4	976.1	956.8	954.4	949.5
25°	1998.1	1843.5	1548.7	1309.5	1138.0	1026.8	949.5	886.7	855.3	850.5	848.0
27.5°	2164.8	1995.7	1616.4	1292.6	1082.4	942.3	850.5	782.8	744.2	739.3	736.9
30°	2343.6	2152.7	1705.8	1278.1	1012.3	845.6	741.7	676.5	640.3	630.6	633.0
32.5°	2539.3	2321.9	1802.4	1266.0	937.4	720.0	623.4	579.9	541.2	524.3	526.7
35°	2730.2	2471.7	1887.0	1256.4	838.4	606.4	531.5	485.6	447.0	425.2	425.2
37.5°	2945.2	2648.0	1957.0	1237.0	732.1	529.1	456.6	410.7	381.7	362.4	362.4
40°	3155.4	2824.4	2012.6	1200.8	613.7	466.3	376.9	350.3	331.0	318.9	314.1
42.5°	3360.8	3000.8	2048.8	1140.4	514.6	391.4	314.1	311.7	314.1	302.0	299.6
45°	3573.4	3174.7	2075.4	1043.7	444.6	323.8	280.3	297.2	314.1	309.3	309.3
47.5°	3805.3	3343.9	2097.2	886.7	376.9	285.1	277.8	294.8	316.5	318.9	318.9
50°	4027.6	3515.4	2089.9	686.2	331.0	282.7	280.3	285.1	314.1	321.3	316.5
52.5°	4235.4	3662.8	2031.9	500.1	309.3	287.5	287.5	282.7	306.8	311.7	314.1
55°	4445.6	3800.5	1901.5	396.2	297.2	287.5	299.6	287.5	294.8	297.2	302.0
57.5°	4636.5	3940.6	1708.2	355.2	294.8	287.5	299.6	292.3	292.3	282.7	280.3
60°	4783.8	4056.6	1473.8	338.3	287.5	289.9	294.8	294.8	287.5	265.8	258.5
62.5°	4899.8	4153.3	1152.5	316.5	282.7	285.1	282.7	292.3	275.4	244.0	236.8
65°	4965.1	4170.2	881.9	292.3	270.6	280.3	273.0	270.6	256.1	222.3	207.8
67.5°	4892.6	4051.8	616.1	268.2	256.1	273.0	260.9	251.3	234.4	203.0	183.6
70°	4612.3	3708.7	405.9	236.8	236.8	256.1	246.4	231.9	210.2	186.0	164.3
72.5°	4085.6	3196.5	244.0	195.7	210.2	234.4	229.5	210.2	147.4	113.6	99.1
75°	3455.0	2626.3	157.0	147.4	171.5	210.2	212.6	188.5	125.6	101.5	101.5
77.5°	2510.3	1725.1	91.8	82.1	113.6	169.1	181.2	137.7	135.3	188.5	137.7
80°	1287.8	836.0	70.1	50.7	60.4	125.6	101.5	103.9	205.4	152.2	96.6
82.5°	558.1	331.0	43.5	36.2	38.7	62.8	65.2	171.5	159.5	89.4	60.4
85°	118.4	62.8	24.2	24.2	24.2	29.0	36.2	186.0	99.1	45.9	19.3
87.5°	12.1	12.1	12.1	12.1	12.1	12.1	9.7	9.7	9.7	7.2	7.2
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)