

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: P509348

Luminaire Tested: **VERD-CA2-80-727-U-T2-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509348  
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-CA2-80-727-U-T2-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 1100mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8949 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

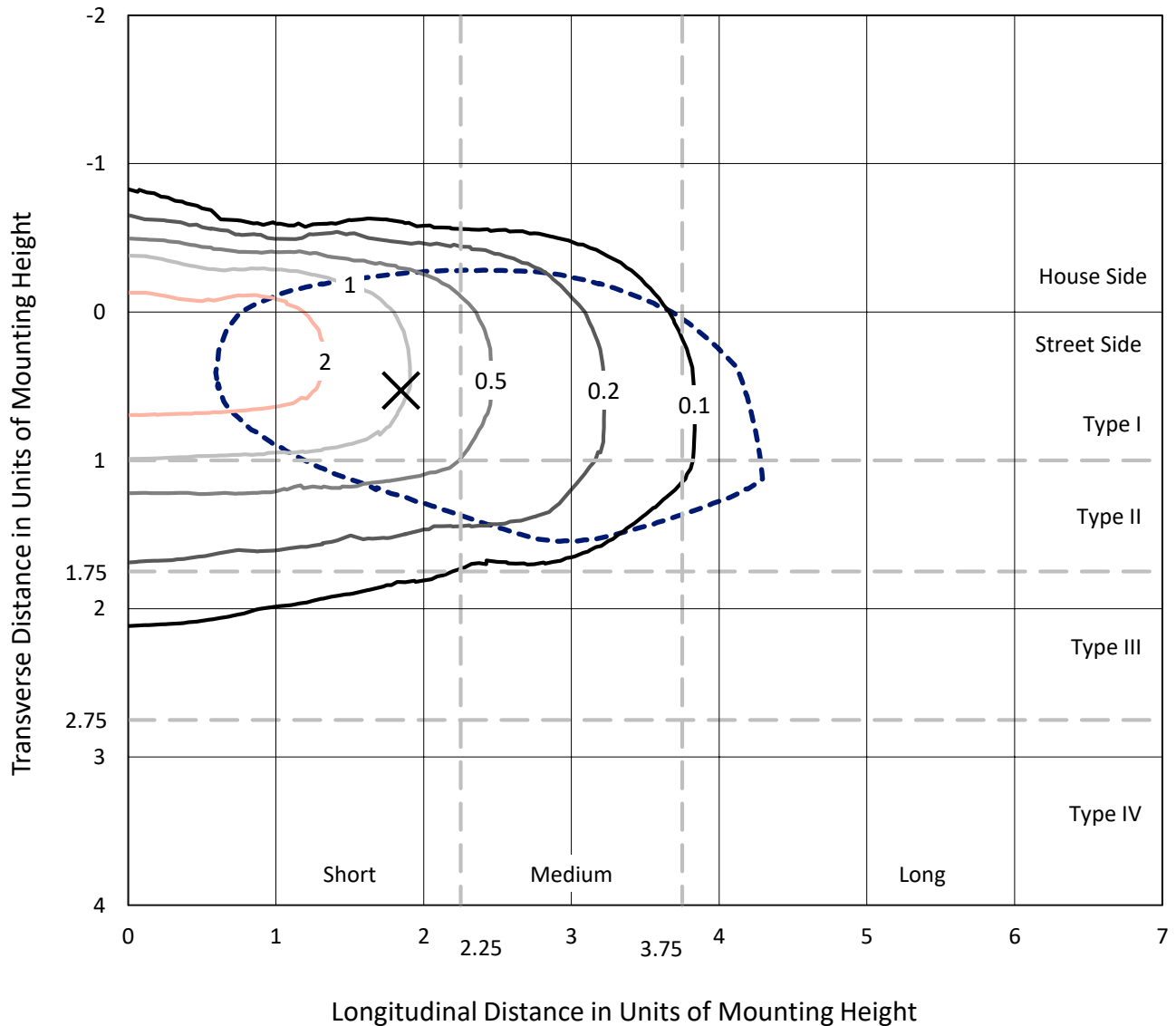
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

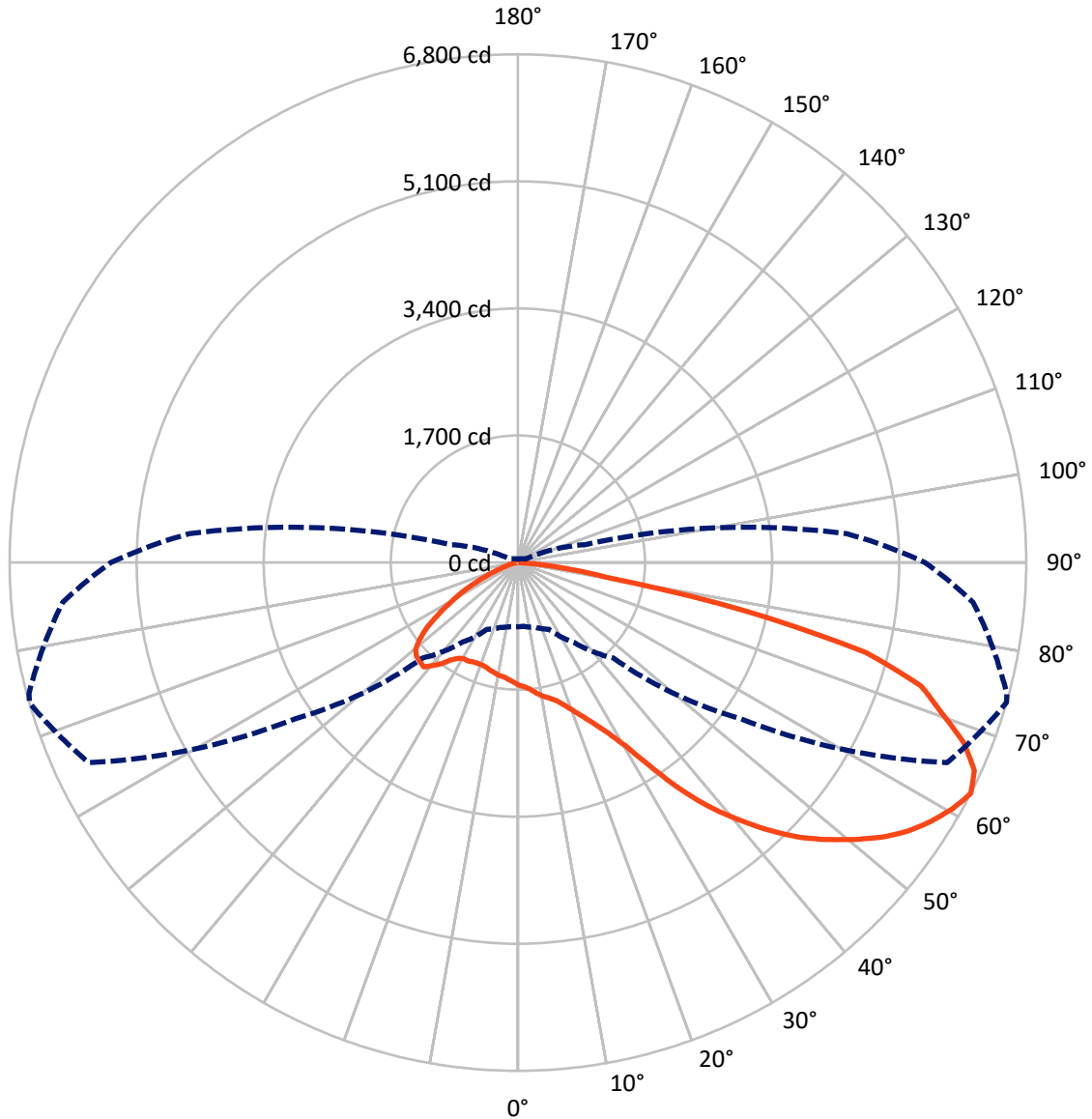
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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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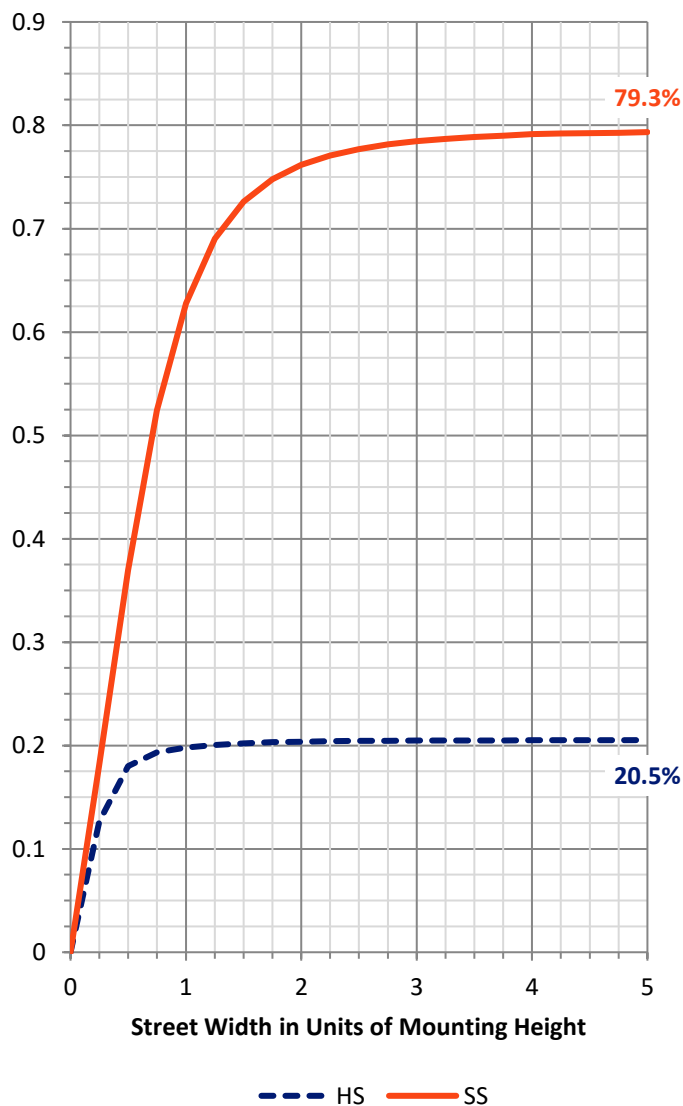
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1858.3	0.0	1858.3
	% Fixture	20.8	0.0	20.8
<b>Street Side</b>	Lumens	7090.7	0.0	7090.7
	% Fixture	79.2	0.0	79.2
<b>Total</b>	Lumens	8949.0	0.0	8949.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.4	1.7
10°-20°	472.3	5.3
20°-30°	797.4	8.9
30°-40°	1186.1	13.3
40°-50°	1605.3	17.9
50°-60°	1846.9	20.6
60°-70°	1782.7	19.9
70°-80°	1009.3	11.3
80°-90°	92.6	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°	8949.0	100.0
0°-180°	8949.0	100.0

**Coefficient of Utilization**



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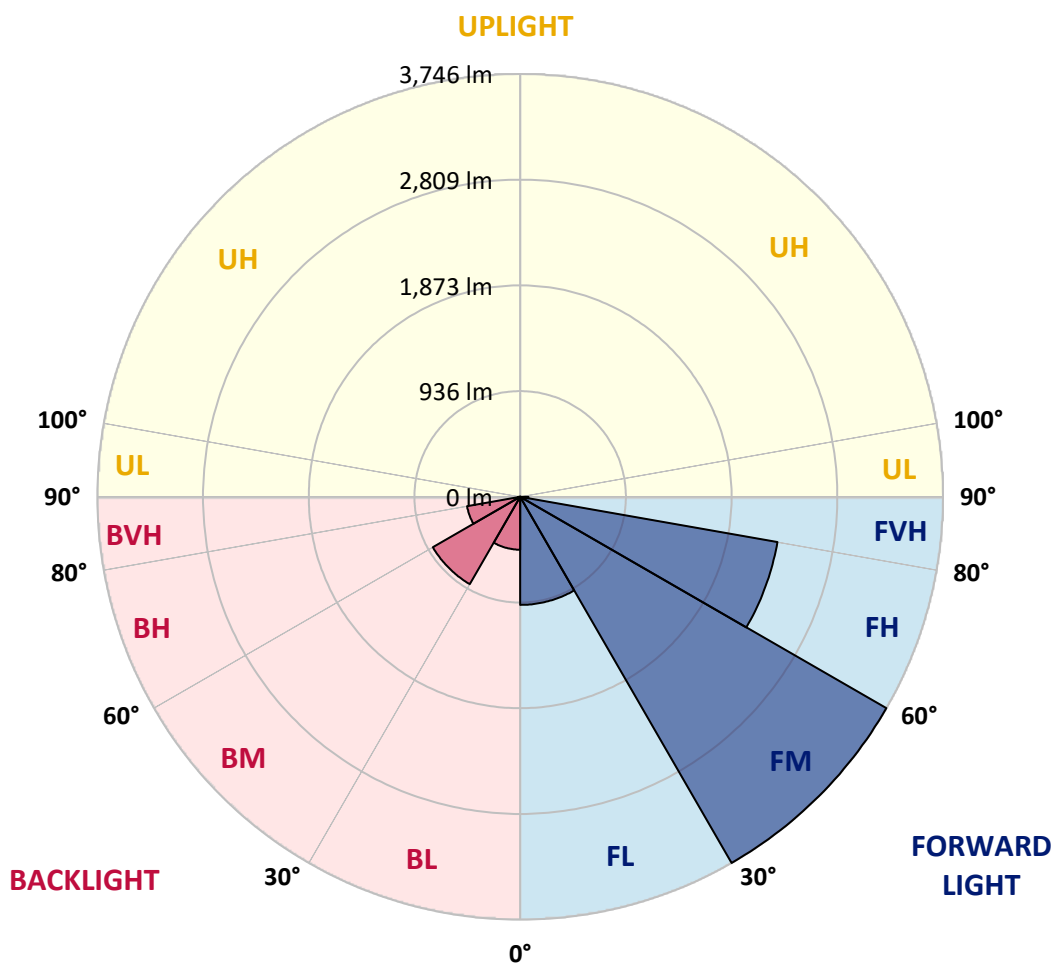
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	957.5	10.7			
FM (30°-60°)	3745.9	41.9			
FH (60°-80°)	2314.3	25.9			G2/5000
FVH (80°-90°)	73.0	0.8			G1/100
BL (0°-30°)	468.6	5.2	B1/500		
BM (30°-60°)	892.4	10.0	B1/1000		
BH (60°-80°)	477.7	5.3	B1/500		G1/500
BVH (80°-90°)	19.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1640.3	1640.3	1640.3	1640.3	1640.3	1640.3	1640.3	1640.3	1640.3	1640.3	1640.3
2.5°	1788.6	1776.8	1767.2	1761.9	1747.0	1734.2	1708.6	1681.9	1663.8	1662.7	1645.6
5°	1863.2	1862.1	1840.8	1836.5	1816.3	1809.9	1784.3	1745.9	1701.1	1695.8	1649.9
7.5°	1961.3	1949.6	1926.1	1916.5	1893.1	1876.0	1841.9	1805.6	1760.8	1755.5	1675.5
10°	2056.2	2049.9	2036.0	2037.1	2004.0	1972.0	1920.8	1858.9	1816.3	1809.9	1711.8
12.5°	2166.1	2145.8	2122.4	2109.6	2076.5	2056.2	2007.2	1926.1	1858.9	1852.5	1754.4
15°	2241.8	2231.2	2209.8	2201.3	2169.3	2136.2	2079.7	2016.8	1915.5	1909.1	1798.2
17.5°	2322.9	2317.5	2293.0	2287.7	2256.8	2217.3	2173.6	2091.4	2002.9	1992.3	1850.4
20°	2377.3	2367.7	2364.5	2363.4	2354.9	2330.3	2274.9	2210.9	2112.8	2093.6	1917.6
22.5°	2449.8	2440.2	2444.5	2448.7	2460.5	2449.8	2413.5	2337.8	2240.8	2223.7	2023.2
25°	2457.3	2450.9	2479.7	2539.4	2562.8	2574.6	2546.8	2488.2	2394.3	2371.9	2149.0
27.5°	2477.5	2467.9	2498.9	2561.8	2667.4	2685.5	2690.8	2663.1	2584.2	2571.4	2319.7
30°	2441.3	2434.9	2482.9	2590.6	2709.0	2811.3	2850.8	2889.2	2852.9	2830.5	2557.5
32.5°	2352.7	2357.0	2419.9	2562.8	2781.5	2939.3	3041.7	3177.2	3242.2	3238.0	2978.8
35°	2223.7	2221.6	2327.1	2528.7	2787.9	3059.8	3250.8	3525.9	3708.3	3695.5	3421.4
37.5°	2113.8	2108.5	2228.0	2442.3	2793.2	3155.8	3496.1	3906.7	4138.1	4125.3	3782.9
40°	1979.5	1988.0	2094.6	2342.1	2748.4	3227.3	3709.4	4276.7	4513.5	4513.5	4157.3
42.5°	1844.0	1851.5	1957.1	2202.4	2683.4	3279.5	3909.9	4645.8	4886.8	4892.1	4414.3
45°	1725.6	1728.8	1824.8	2045.6	2566.0	3288.1	4094.4	5015.8	5236.6	5222.7	4707.6
47.5°	1517.7	1552.9	1703.2	1904.8	2406.1	3250.8	4250.1	5345.4	5537.4	5508.6	4987.0
50°	1209.4	1209.4	1417.4	1770.4	2222.6	3151.6	4372.7	5646.2	5823.2	5796.5	5231.3
52.5°	1111.3	1113.4	1177.4	1581.6	2037.1	2980.9	4443.1	5944.8	6103.7	6085.6	5462.7
55°	1059.1	1062.3	1092.1	1282.0	1868.5	2719.6	4445.3	6176.2	6341.5	6301.0	5657.9
57.5°	980.1	974.8	1037.7	1142.2	1671.2	2382.6	4340.7	6355.4	6526.0	6495.1	5817.9
60°	924.7	916.1	958.8	1052.7	1459.0	2033.9	4062.4	6485.5	6683.9	6702.0	5974.6
62.5°	859.6	856.4	896.9	985.5	1302.2	1805.6	3644.3	6334.1	6800.1	6771.3	6113.3
65°	794.6	788.2	826.6	895.9	1150.8	1619.0	3223.0	6110.1	6710.5	6736.1	6141.0
67.5°	709.2	708.2	744.4	795.6	985.5	1409.9	2613.0	5815.7	6433.2	6415.1	5889.3
70°	605.8	605.8	642.0	686.8	823.4	1203.0	2006.1	5311.3	6006.6	6112.2	5458.4
72.5°	489.5	491.7	527.9	579.1	679.4	980.1	1479.3	4619.1	5636.6	5467.0	4850.5
75°	261.3	234.6	413.8	466.1	548.2	781.8	1012.1	3003.3	4806.8	4689.5	4024.0
77.5°	62.9	66.1	130.1	242.1	292.2	433.0	498.1	1390.7	3099.3	3285.9	2870.0
80°	41.6	45.9	70.4	171.7	195.2	230.4	197.3	605.8	1202.0	1280.9	1665.9
82.5°	21.3	23.5	43.7	68.3	69.3	59.7	74.7	305.0	635.6	689.0	801.0
85°	7.5	11.7	22.4	29.9	27.7	22.4	18.1	75.7	150.4	167.4	173.8
87.5°	0.0	0.0	3.2	3.2	2.1	2.1	3.2	3.2	4.3	3.2	3.2
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°	1640.3	1640.3	1640.3	1640.3	1640.3	1640.3	1640.3	1640.3	1640.3	1640.3	1640.3
2.5°	1631.8	1620.0	1601.9	1582.7	1562.5	1545.4	1535.8	1541.1	1547.5	1527.3	1519.8
5°	1628.6	1608.3	1574.2	1533.7	1502.7	1471.8	1435.5	1427.0	1418.5	1407.8	1396.1
7.5°	1643.5	1613.6	1544.3	1507.0	1441.9	1384.3	1352.3	1328.9	1307.6	1288.4	1276.6
10°	1671.2	1615.8	1537.9	1462.2	1390.7	1320.4	1251.0	1237.2	1232.9	1205.2	1184.9
12.5°	1689.4	1621.1	1515.5	1423.8	1321.4	1245.7	1176.4	1136.9	1133.7	1120.9	1107.0
15°	1718.2	1642.4	1500.6	1375.8	1251.0	1171.0	1107.0	1055.9	1030.3	1029.2	1018.5
17.5°	1770.4	1667.0	1477.1	1326.8	1194.5	1104.9	1013.2	994.0	951.3	926.8	920.4
20°	1823.7	1703.2	1470.7	1277.7	1120.9	1010.0	939.6	886.3	852.1	826.6	810.6
22.5°	1893.1	1755.5	1472.9	1248.9	1061.2	938.5	846.8	767.9	705.0	674.0	659.1
25°	1993.3	1816.3	1488.9	1205.2	990.8	861.7	728.4	623.9	535.4	513.0	502.3
27.5°	2121.3	1901.6	1511.3	1160.4	925.7	758.3	585.5	468.2	394.6	377.5	366.9
30°	2317.5	2029.6	1514.5	1132.6	867.1	623.9	438.3	346.6	289.0	270.9	273.0
32.5°	2686.6	2303.7	1557.1	1075.1	762.6	478.9	322.1	252.8	209.0	202.6	213.3
35°	3115.3	2626.8	1639.2	1045.2	643.1	346.6	230.4	185.6	157.8	166.4	170.6
37.5°	3391.5	2911.6	1770.4	976.9	503.4	254.9	161.0	145.0	139.7	145.0	154.6
40°	3713.6	3143.0	1882.4	907.6	357.3	174.9	129.0	132.2	125.8	124.8	129.0
42.5°	3974.9	3380.9	2001.9	793.5	248.5	130.1	118.4	120.5	116.3	110.9	110.9
45°	4223.4	3586.7	2000.8	639.9	164.2	115.2	108.8	113.1	112.0	104.5	103.5
47.5°	4441.0	3794.7	2001.9	465.0	124.8	105.6	101.3	105.6	105.6	99.2	98.1
50°	4710.8	3967.5	1969.9	297.6	114.1	98.1	97.1	96.0	100.3	91.7	89.6
52.5°	4876.1	4093.3	1825.9	200.5	105.6	92.8	90.7	88.5	90.7	83.2	83.2
55°	5057.4	4250.1	1638.2	158.9	100.3	86.4	85.3	83.2	83.2	74.7	75.7
57.5°	5254.7	4378.1	1385.4	139.7	96.0	82.1	80.0	76.8	72.5	66.1	65.1
60°	5397.7	4404.7	1133.7	126.9	92.8	80.0	71.5	67.2	59.7	55.5	54.4
62.5°	5445.6	4418.6	919.3	114.1	87.5	73.6	64.0	56.5	48.0	44.8	44.8
65°	5406.2	4258.6	689.0	103.5	81.1	68.3	56.5	45.9	37.3	34.1	33.1
67.5°	5152.4	3964.3	501.3	92.8	71.5	61.9	49.1	37.3	29.9	26.7	26.7
70°	4690.6	3617.6	339.2	77.9	61.9	54.4	45.9	29.9	24.5	21.3	20.3
72.5°	4187.2	3067.3	216.5	62.9	48.0	42.7	33.1	25.6	20.3	16.0	16.0
75°	3311.5	2409.3	150.4	45.9	34.1	32.0	25.6	21.3	17.1	12.8	12.8
77.5°	2304.7	1565.7	118.4	35.2	23.5	21.3	19.2	16.0	13.9	10.7	9.6
80°	1336.3	941.7	71.5	23.5	16.0	13.9	12.8	12.8	10.7	7.5	7.5
82.5°	663.4	392.5	30.9	14.9	10.7	9.6	8.5	7.5	7.5	5.3	5.3
85°	130.1	67.2	11.7	7.5	5.3	5.3	4.3	4.3	3.2	2.1	2.1
87.5°	4.3	3.2	3.2	3.2	2.1	2.1	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)