

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: P509358

Luminaire Tested: **VERD-CA2-80-730-U-T3-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509358
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-CA2-80-730-U-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1100mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10684 lumens
Efficiency: N/A
Efficacy: 129.7 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

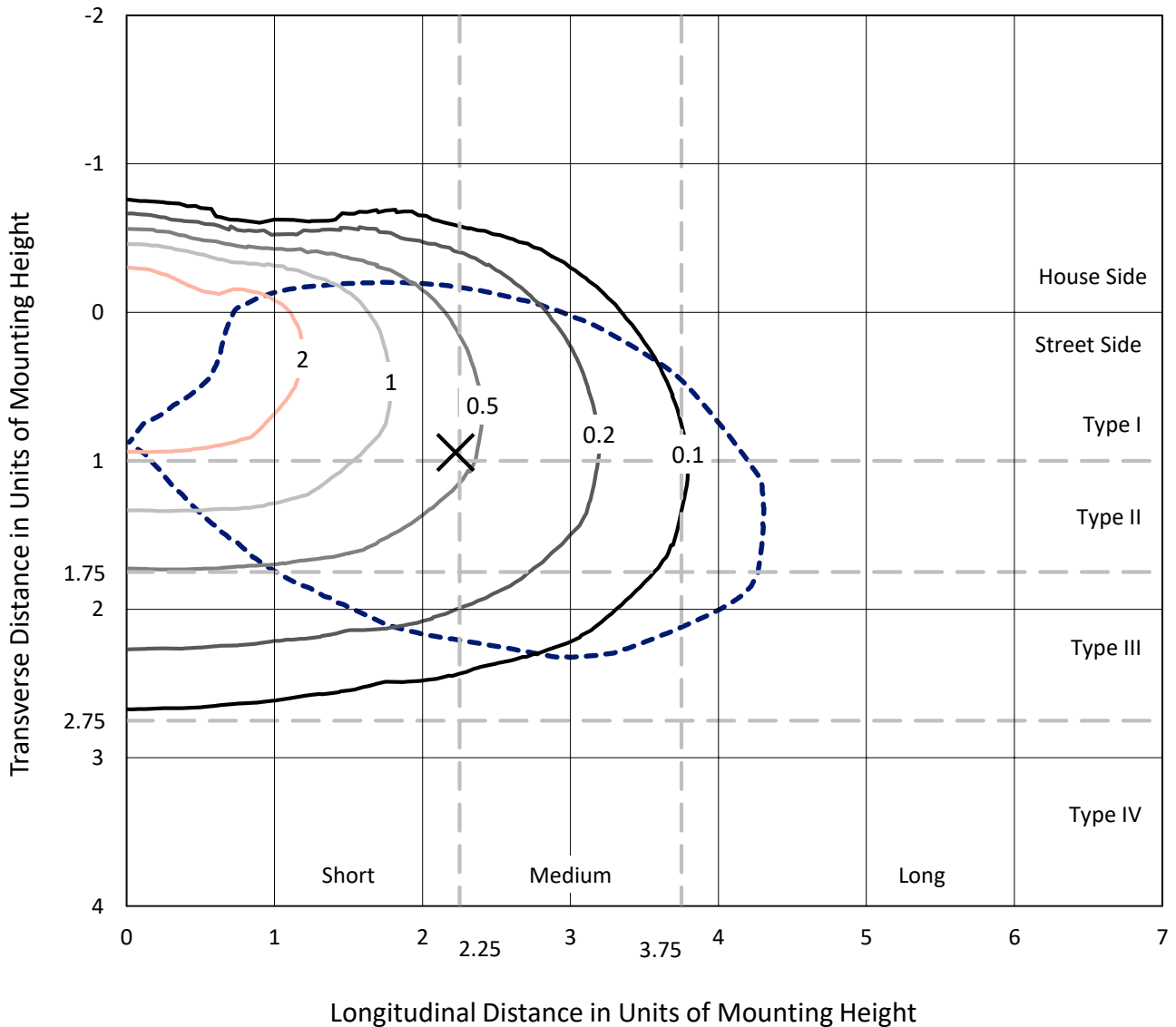
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

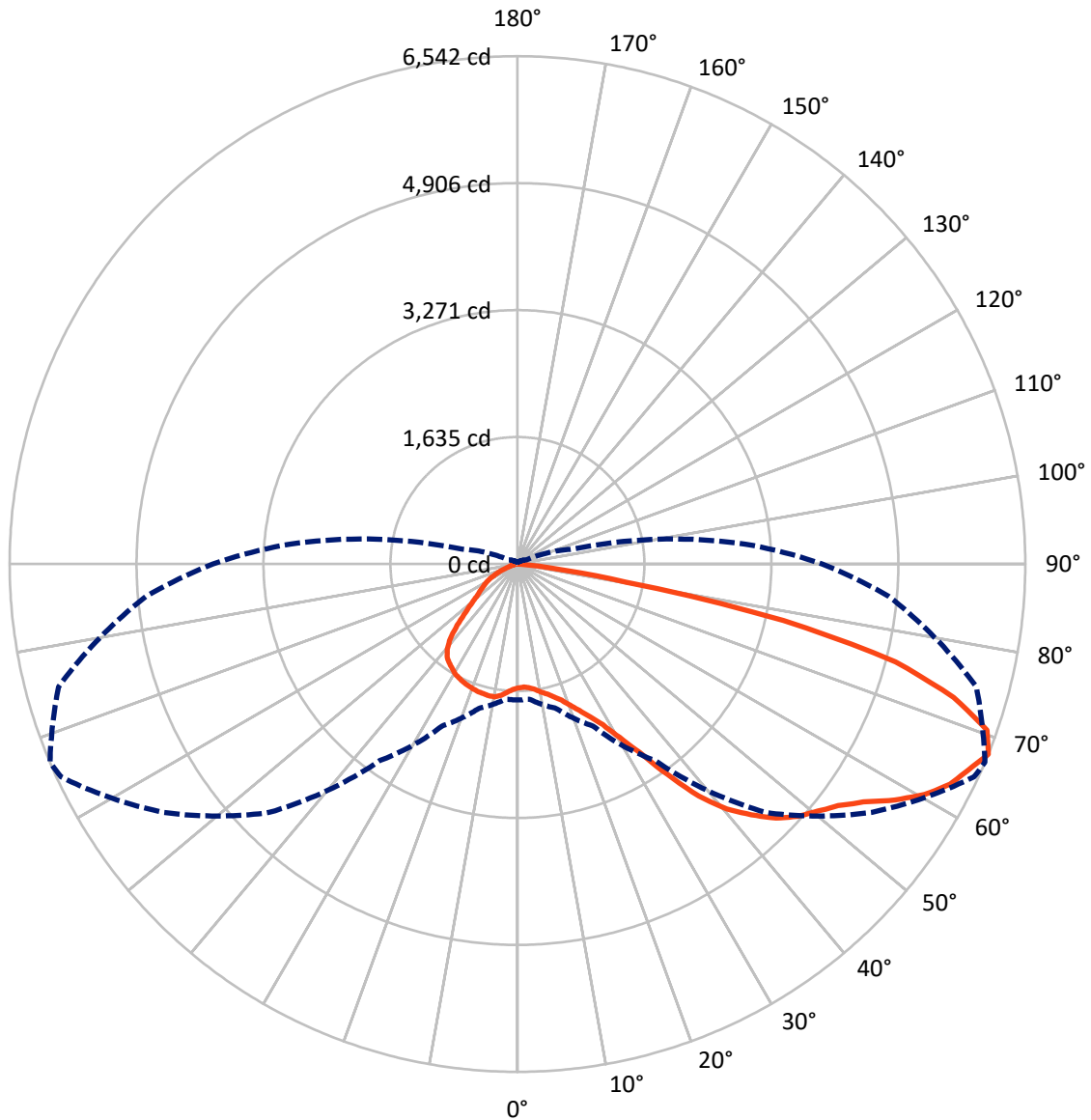
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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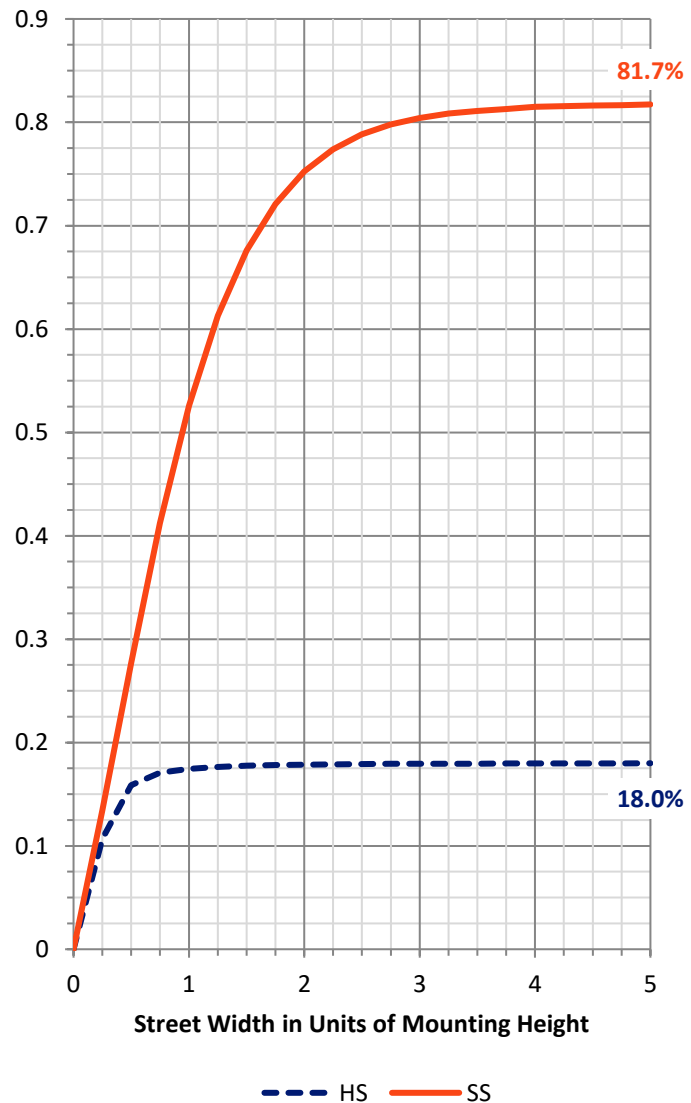
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1946.7	0.0	1946.7
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	8737.3	0.0	8737.3
	% Fixture	81.8	0.0	81.8
Total	Lumens	10684.0	0.0	10684.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.8	1.5
10°-20°	500.5	4.7
20°-30°	854.1	8.0
30°-40°	1329.5	12.4
40°-50°	1876.7	17.6
50°-60°	2260.4	21.2
60°-70°	2335.9	21.9
70°-80°	1286.8	12.0
80°-90°	80.2	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°	10684.0	100.0
0°-180°	10684.0	100.0



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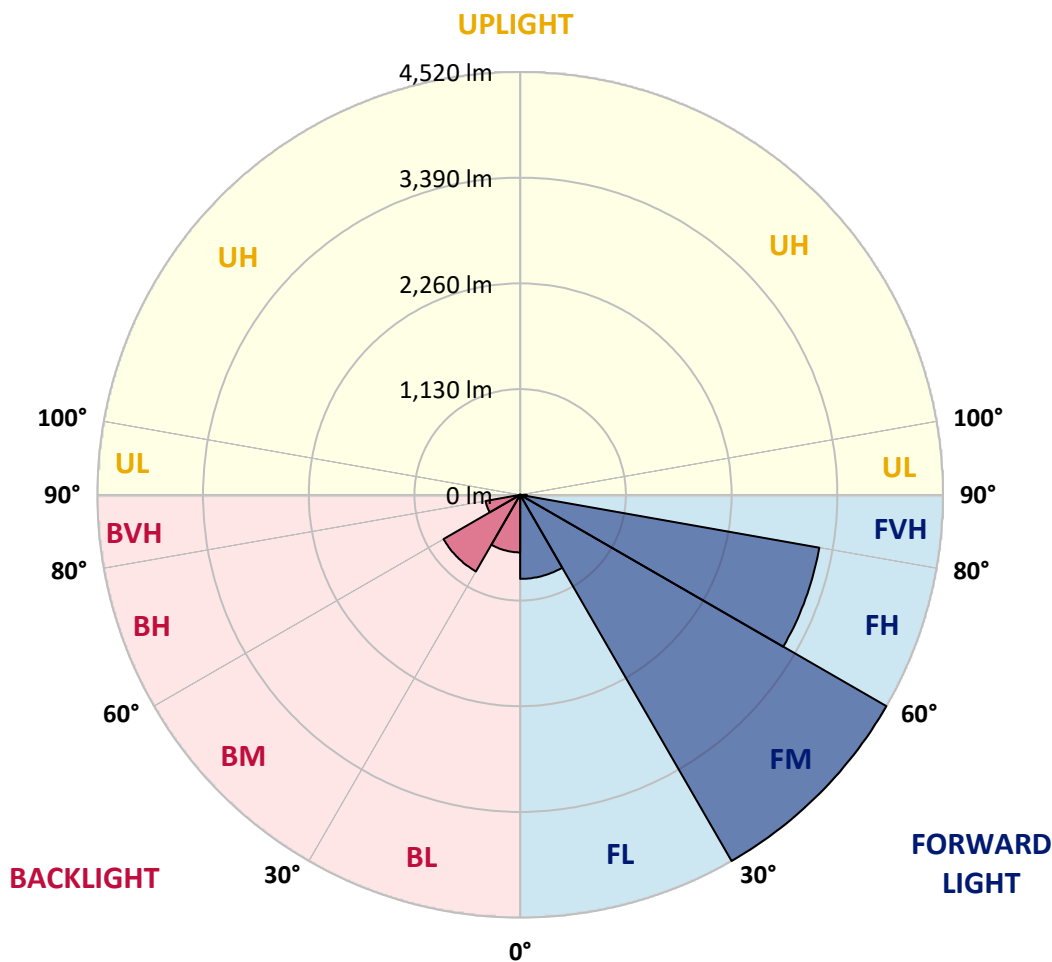
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	899.0	8.4			
FM (30°-60°)	4520.2	42.3			
FH (60°-80°)	3247.5	30.4			G2/5000
FVH (80°-90°)	70.6	0.7			G1/100
BL (0°-30°)	615.5	5.8	B2/1000		
BM (30°-60°)	946.3	8.9	B1/1000		
BH (60°-80°)	375.2	3.5	B1/500		G1/500
BVH (80°-90°)	9.7	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°	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2
2.5°	1580.4	1596.5	1596.5	1591.5	1594.0	1582.9	1575.5	1584.1	1586.6	1594.0	1603.9
5°	1611.3	1629.9	1628.6	1620.0	1612.6	1602.7	1592.8	1600.2	1601.4	1603.9	1616.3
7.5°	1676.9	1694.2	1686.8	1678.1	1674.4	1652.1	1631.1	1629.9	1632.3	1639.8	1653.4
10°	1762.2	1775.8	1773.3	1759.7	1749.8	1716.4	1686.8	1675.6	1676.9	1679.3	1702.8
12.5°	1858.6	1877.2	1863.6	1845.0	1827.7	1779.5	1738.7	1722.6	1720.1	1726.3	1746.1
15°	1953.9	1973.6	1963.8	1952.6	1913.1	1859.9	1807.9	1782.0	1779.5	1779.5	1791.9
17.5°	2078.8	2086.2	2080.0	2063.9	2019.4	1952.6	1890.8	1852.5	1846.3	1850.0	1852.5
20°	2217.3	2230.9	2223.4	2206.1	2141.8	2070.1	1992.2	1946.4	1942.7	1946.4	1922.9
22.5°	2385.4	2390.4	2386.7	2358.2	2300.1	2204.9	2102.3	2050.3	2050.3	2054.0	2005.8
25°	2528.9	2558.6	2549.9	2515.3	2447.3	2364.4	2240.8	2176.5	2180.2	2182.6	2115.9
27.5°	2695.8	2720.6	2714.4	2688.4	2643.9	2538.8	2390.4	2348.3	2344.6	2340.9	2237.0
30°	2855.4	2873.9	2886.3	2880.1	2844.2	2745.3	2613.0	2582.1	2592.0	2584.5	2405.2
32.5°	2985.2	3017.4	3052.0	3059.4	3049.5	2961.7	2865.3	2881.3	2893.7	2981.5	2873.9
35°	3096.5	3131.1	3188.0	3247.4	3258.5	3223.9	3175.6	3293.1	3329.0	3508.3	3394.5
37.5°	3212.7	3242.4	3299.3	3393.3	3455.1	3473.7	3520.7	3706.2	3792.7	3947.3	3735.8
40°	3265.9	3295.6	3394.5	3513.2	3641.9	3745.7	3839.7	4054.9	4151.3	4198.3	3923.8
42.5°	3212.7	3241.2	3400.7	3624.5	3798.9	4028.9	4135.3	4350.4	4414.7	4409.8	4155.1
45°	3160.8	3188.0	3355.0	3653.0	3941.1	4289.8	4380.1	4621.3	4668.2	4608.9	4288.6
47.5°	3094.0	3131.1	3304.3	3635.7	4068.5	4526.0	4608.9	4814.2	4856.2	4768.4	4441.9
50°	3012.4	3044.6	3246.1	3608.5	4152.6	4702.9	4790.7	4994.7	5005.8	4924.2	4580.4
52.5°	2918.4	2935.7	3154.6	3554.1	4225.5	4832.7	4932.9	5146.8	5172.8	5150.5	4744.9
55°	2778.7	2809.6	3044.6	3468.7	4230.5	4900.7	5042.9	5362.0	5409.0	5357.0	4845.1
57.5°	2631.5	2664.9	2908.5	3350.0	4157.5	4944.0	5243.3	5641.5	5734.2	5567.3	4926.7
60°	2469.5	2499.2	2739.1	3174.4	4027.7	5005.8	5449.8	5969.2	6027.3	5746.6	4981.1
62.5°	2281.6	2305.1	2533.8	2961.7	3828.6	4989.8	5627.9	6232.6	6251.1	5907.3	4976.2
65°	2052.8	2051.6	2264.3	2664.9	3502.1	4861.2	5660.0	6364.9	6387.2	6011.2	4931.6
67.5°	1751.1	1747.3	1925.4	2302.6	3090.3	4526.0	5574.7	6488.6	6541.7	6120.0	4801.8
70°	1372.7	1377.6	1512.4	1848.8	2507.9	4015.3	5349.6	6405.7	6416.8	5911.1	4465.4
72.5°	970.7	968.3	1059.8	1287.3	1853.7	3134.8	4701.6	5840.6	5875.2	5394.1	3890.4
75°	445.2	463.7	692.5	786.5	1119.1	2134.4	3868.2	4962.6	5029.3	4643.5	3033.4
77.5°	82.9	85.3	148.4	299.3	437.8	770.4	2311.2	3361.1	3500.9	3164.5	1709.0
80°	65.5	66.8	87.8	143.4	183.0	346.3	760.5	1385.0	1415.9	1234.1	615.8
82.5°	48.2	49.5	65.5	92.7	85.3	149.6	316.6	403.1	427.9	398.2	244.9
85°	28.4	29.7	38.3	45.8	44.5	59.4	53.2	48.2	43.3	35.9	30.9
87.5°	7.4	9.9	16.1	16.1	12.4	11.1	9.9	8.7	9.9	8.7	8.7
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°	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2	1595.2
2.5°	1606.4	1605.1	1608.8	1618.7	1627.4	1628.6	1641.0	1657.1	1649.7	1670.7	1663.3
5°	1623.7	1627.4	1641.0	1657.1	1671.9	1684.3	1702.8	1730.0	1721.4	1741.2	1733.7
7.5°	1663.3	1669.4	1690.5	1706.5	1723.9	1720.1	1736.2	1752.3	1732.5	1753.5	1743.6
10°	1710.2	1717.7	1730.0	1736.2	1731.3	1728.8	1725.1	1722.6	1696.6	1711.5	1705.3
12.5°	1752.3	1753.5	1749.8	1733.7	1722.6	1692.9	1679.3	1673.1	1633.6	1644.7	1637.3
15°	1793.1	1775.8	1757.2	1720.1	1689.2	1643.5	1613.8	1587.8	1550.7	1565.6	1550.7
17.5°	1837.6	1811.7	1763.4	1709.0	1645.9	1579.2	1530.9	1488.9	1433.2	1430.8	1425.8
20°	1894.5	1856.2	1778.3	1689.2	1599.0	1498.8	1422.1	1351.6	1267.5	1256.4	1234.1
22.5°	1966.2	1909.3	1800.5	1663.3	1540.8	1414.7	1284.9	1168.6	1062.3	1028.9	1016.5
25°	2049.1	1978.6	1812.9	1639.8	1485.2	1292.3	1115.4	964.6	839.7	803.8	793.9
27.5°	2153.0	2066.4	1831.4	1605.1	1396.1	1142.6	912.6	745.7	634.4	576.3	567.6
30°	2296.4	2164.1	1857.4	1570.5	1288.6	967.0	707.3	513.2	408.1	373.5	367.3
32.5°	2687.2	2396.6	1885.8	1508.7	1146.3	771.7	469.9	327.7	257.2	228.8	226.3
35°	3183.1	2822.0	1989.7	1438.2	974.5	535.5	291.8	195.4	157.1	145.9	145.9
37.5°	3503.4	3152.1	2162.9	1339.3	748.2	327.7	175.6	127.4	120.0	118.7	118.7
40°	3671.5	3298.1	2287.8	1203.2	500.8	190.4	123.7	110.1	107.6	105.1	105.1
42.5°	3885.5	3423.0	2395.3	1019.0	290.6	133.6	108.8	100.2	96.5	94.0	94.0
45°	4004.2	3559.0	2327.3	800.1	165.7	120.0	100.2	90.3	86.6	86.6	86.6
47.5°	4120.4	3688.8	2240.8	575.0	141.0	110.1	94.0	84.1	80.4	82.9	82.9
50°	4252.7	3776.6	2103.5	430.3	133.6	102.6	85.3	76.7	74.2	77.9	77.9
52.5°	4376.4	3785.3	1883.4	343.8	123.7	95.2	79.1	70.5	68.0	70.5	70.5
55°	4412.3	3758.1	1820.3	273.3	117.5	87.8	74.2	65.5	59.4	59.4	58.1
57.5°	4403.6	3704.9	1667.0	231.2	110.1	80.4	68.0	58.1	50.7	48.2	48.2
60°	4373.9	3630.7	1505.0	201.6	102.6	74.2	60.6	49.5	42.0	39.6	39.6
62.5°	4336.8	3491.0	1276.2	175.6	95.2	71.7	50.7	40.8	35.9	33.4	33.4
65°	4181.0	3273.3	1021.4	149.6	87.8	63.1	44.5	35.9	30.9	28.4	28.4
67.5°	3922.6	2941.9	738.3	127.4	81.6	53.2	39.6	30.9	26.0	24.7	23.5
70°	3536.7	2484.4	457.6	110.1	70.5	48.2	34.6	27.2	23.5	19.8	19.8
72.5°	2948.1	1945.2	239.9	86.6	55.6	40.8	30.9	24.7	19.8	17.3	16.1
75°	2072.6	1199.5	173.1	66.8	38.3	33.4	26.0	21.0	17.3	14.8	13.6
77.5°	1000.4	413.0	121.2	49.5	27.2	24.7	19.8	17.3	13.6	12.4	12.4
80°	366.0	235.0	86.6	35.9	22.3	19.8	14.8	13.6	11.1	9.9	9.9
82.5°	164.5	111.3	49.5	23.5	16.1	14.8	11.1	8.7	8.7	8.7	8.7
85°	27.2	23.5	16.1	11.1	8.7	7.4	7.4	6.2	6.2	6.2	6.2
87.5°	7.4	7.4	6.2	6.2	4.9	3.7	2.5	2.5	2.5	3.7	3.7
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)