

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: P509833

Luminaire Tested: **VERD-M-CA3-150-727-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509833
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-6)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA3-150-727-U-T4
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 940mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18710 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

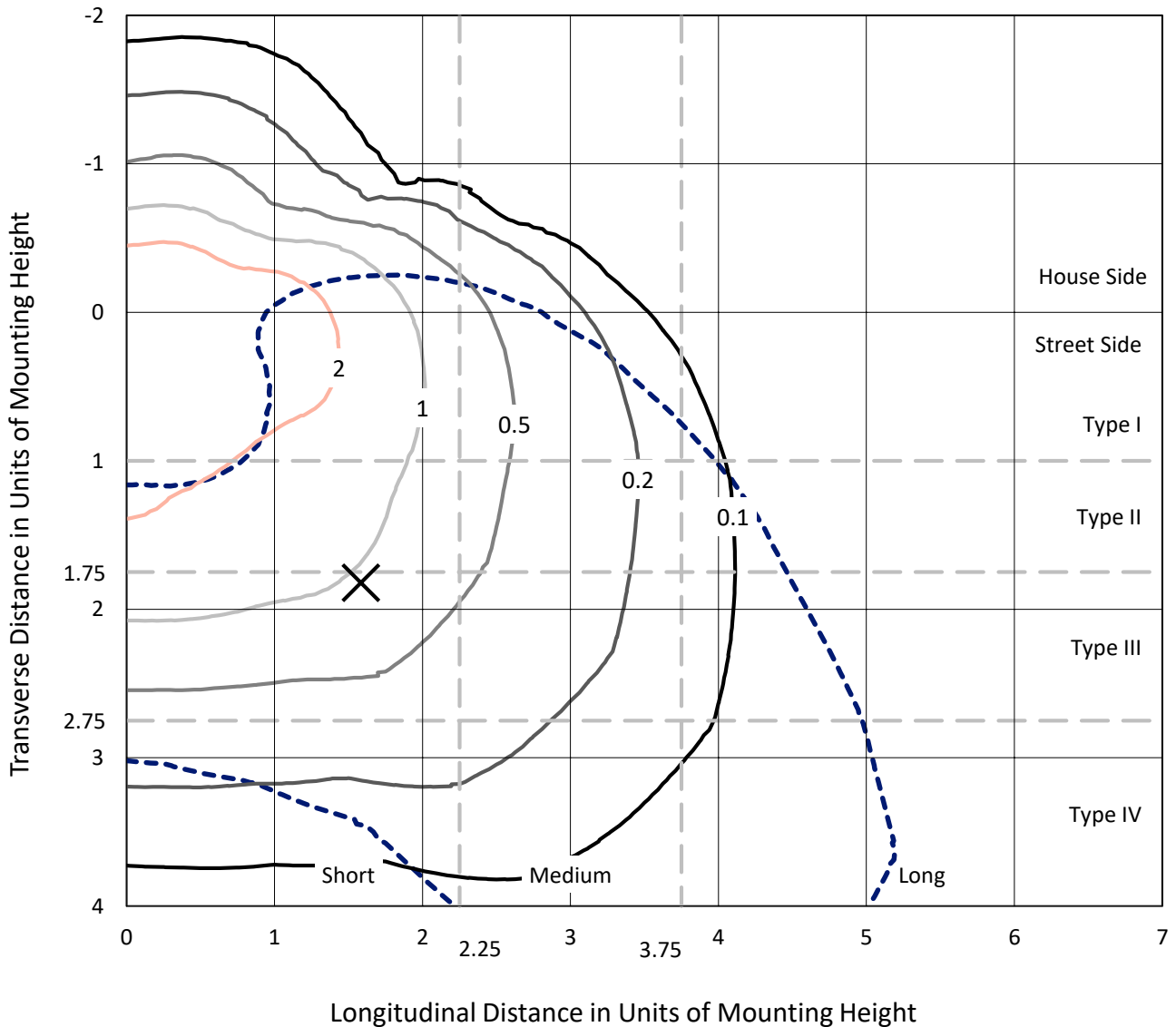
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

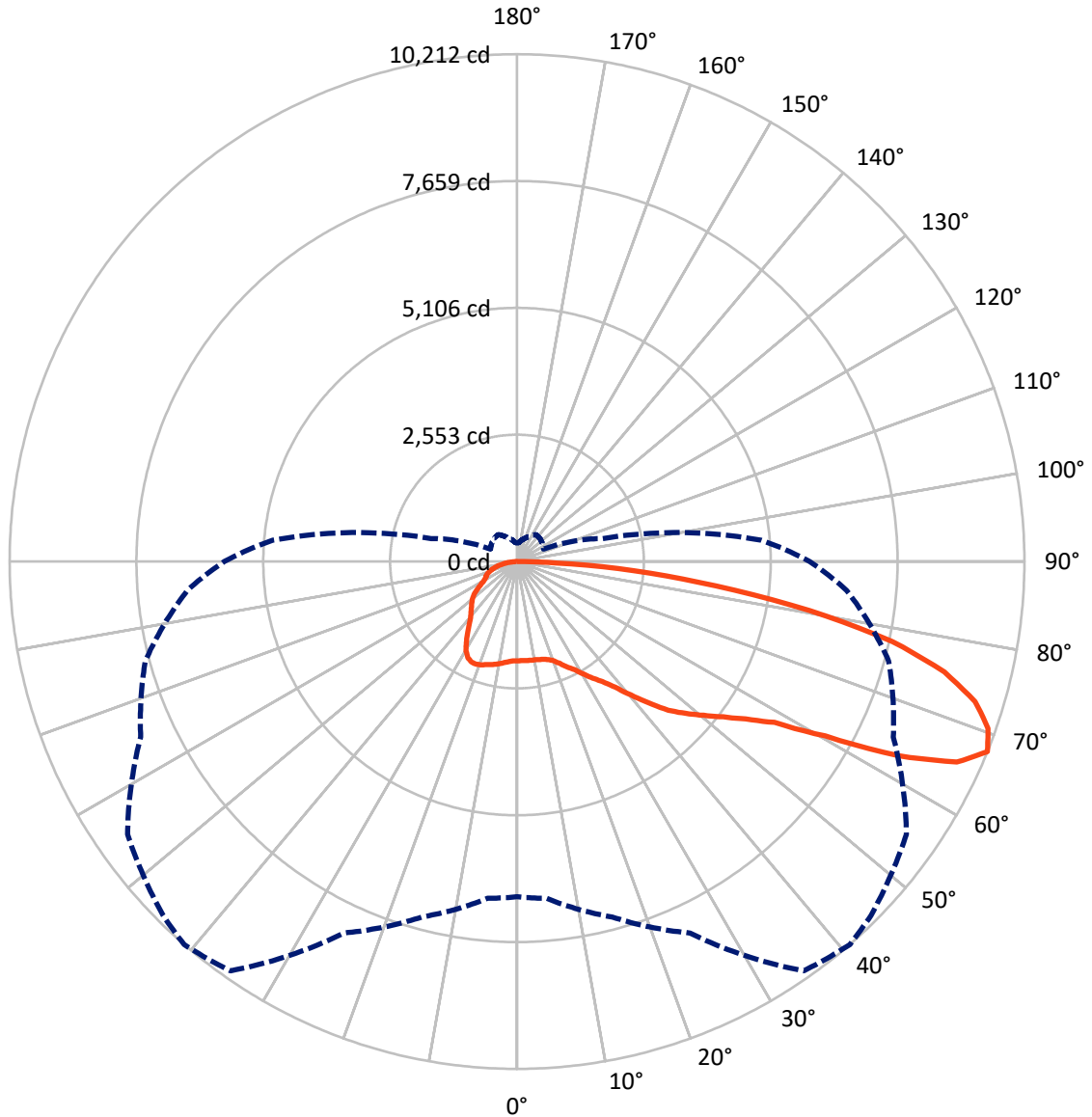
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 41-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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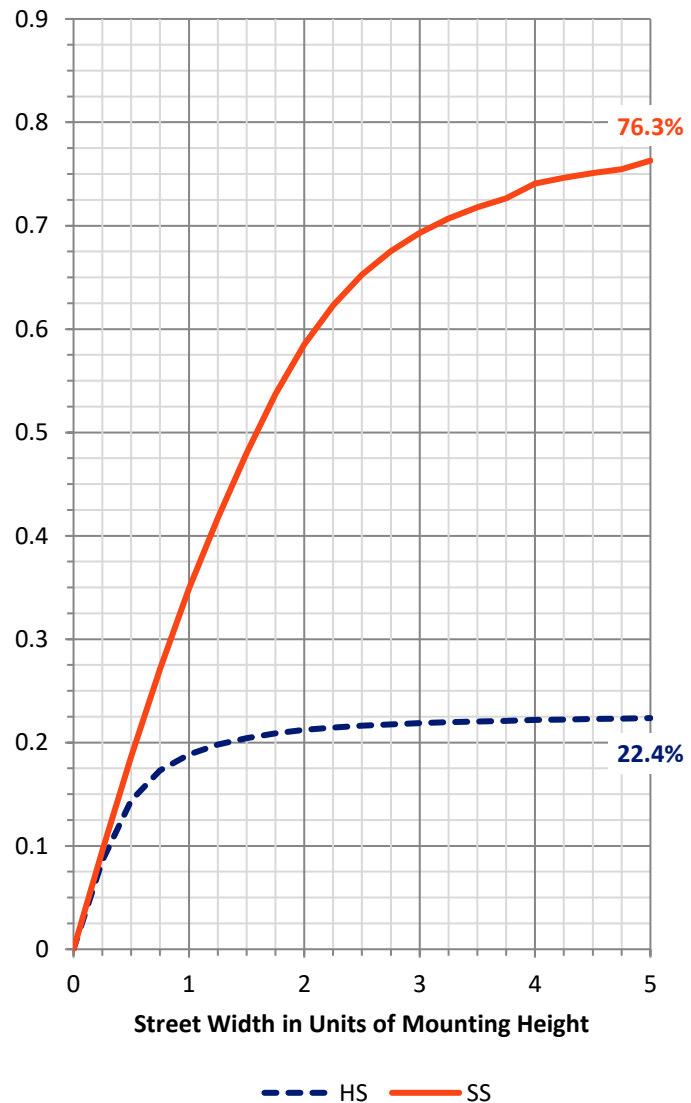
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4234.0	0.0	4234.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	14476.0	0.0	14476.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	18710.0	0.0	18710.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.0	1.0
10°-20°	598.7	3.2
20°-30°	1070.6	5.7
30°-40°	1678.7	9.0
40°-50°	2603.2	13.9
50°-60°	3669.8	19.6
60°-70°	4678.2	25.0
70°-80°	3500.8	18.7
80°-90°	717.0	3.8
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°	18710.0	100.0
0°-180°	18710.0	100.0



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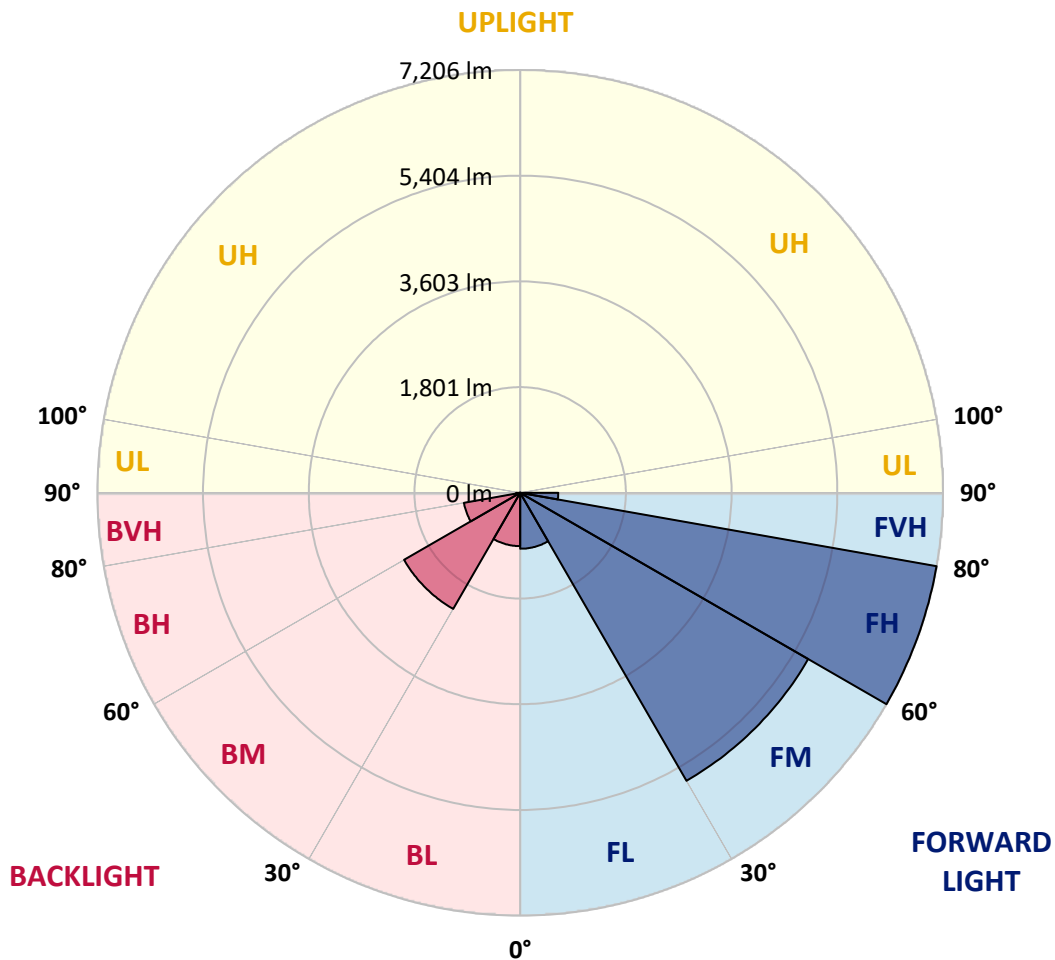
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	953.3	5.1			
FM	(30°-60°)	5667.1	30.3			
FH	(60°-80°)	7205.6	38.5			G3/7500
FVH	(80°-90°)	650.0	3.5			G4/750
BL	(0°-30°)	909.0	4.9	B2/1000		
BM	(30°-60°)	2284.6	12.2	B2/2500		
BH	(60°-80°)	973.4	5.2	B2/1000		G2/1000
BVH	(80°-90°)	67.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	1997.6	1997.6	1997.6	1997.6	1997.6	1997.6	1997.6	1997.6	1997.6	1997.6	1997.6
2.5°	1973.1	1995.9	1992.5	1988.3	1995.1	1995.9	1976.4	1984.1	1988.3	1995.1	2006.1
5°	1978.1	2001.0	1999.3	1991.7	1996.8	1999.3	1981.5	1995.1	1995.1	1997.6	2010.3
7.5°	1967.1	1989.1	1989.1	1986.6	1997.6	2007.8	1991.7	2003.5	2010.3	2017.1	2025.6
10°	1957.0	1975.6	1982.4	1980.7	2006.1	2008.6	1997.6	2026.4	2037.4	2044.2	2054.4
12.5°	1946.0	1968.8	1978.1	1987.5	2014.6	2023.9	2017.9	2047.6	2070.4	2082.3	2093.3
15°	1940.9	1966.3	1981.5	1995.1	2024.7	2041.6	2041.6	2086.5	2113.6	2128.9	2148.3
17.5°	1976.4	2002.7	2014.6	2025.6	2052.7	2075.5	2073.8	2126.3	2166.1	2189.8	2225.4
20°	2064.5	2095.8	2102.6	2106.9	2123.8	2132.3	2129.7	2186.5	2241.5	2286.4	2326.2
22.5°	2217.8	2236.4	2239.8	2222.9	2227.1	2233.9	2229.6	2261.0	2323.6	2376.1	2447.3
25°	2343.1	2372.8	2364.3	2339.7	2343.1	2352.4	2339.7	2388.0	2432.9	2501.5	2573.4
27.5°	2475.2	2497.2	2487.9	2472.7	2469.3	2462.5	2460.0	2521.8	2587.8	2642.0	2748.7
30°	2636.1	2648.0	2620.9	2614.1	2620.0	2624.3	2608.2	2686.9	2747.0	2824.9	2968.9
32.5°	2907.1	2918.1	2879.1	2775.0	2777.5	2797.0	2783.5	2882.5	2996.0	3090.8	3237.3
35°	3252.6	3252.6	3222.1	3075.6	2964.7	2965.5	2968.9	3108.6	3319.5	3532.0	3682.8
37.5°	3602.3	3614.2	3556.6	3422.8	3282.2	3207.7	3145.0	3324.6	3600.6	4074.8	4299.2
40°	3966.4	3985.1	3898.7	3775.9	3614.2	3529.5	3456.7	3565.9	3938.5	4612.6	4790.4
42.5°	4284.8	4311.1	4222.2	4092.6	3980.0	3884.3	3774.2	3818.2	4310.2	5123.2	5223.9
45°	4581.2	4595.6	4520.2	4413.6	4320.4	4267.9	4190.8	4241.7	4735.3	5622.8	5604.2
47.5°	4799.7	4820.9	4752.3	4694.7	4599.0	4567.7	4566.8	4706.5	5213.8	6020.8	5934.4
50°	5154.5	5138.4	4984.3	4914.0	4855.6	4865.7	4890.3	5131.6	5776.1	6404.4	6212.2
52.5°	5749.8	5720.2	5378.1	5231.6	5159.6	5192.6	5205.3	5516.9	6343.4	6735.5	6441.7
55°	6519.6	6424.7	6175.8	5782.8	5556.7	5588.1	5573.7	5931.0	6797.3	7051.4	6611.9
57.5°	7028.5	7117.4	6998.0	6773.6	6212.2	6109.7	6075.8	6340.9	7217.3	7353.7	6788.0
60°	7470.5	7617.9	7807.6	7663.6	7512.0	7128.4	6812.6	6806.6	7587.4	7555.2	6859.1
62.5°	7937.1	8015.0	8307.2	8396.1	8677.2	8606.9	8183.5	7396.0	7957.4	7702.5	6900.6
65°	7465.4	7569.6	8101.4	8586.6	9627.3	9729.0	9590.9	8491.8	8214.0	7777.9	6841.3
67.5°	6747.3	6804.9	7407.0	8248.7	10057.5	10211.6	10072.8	9567.2	8356.3	7744.9	6658.4
70°	5826.9	5894.6	6469.6	7617.9	10035.5	10055.8	10001.6	9666.3	8299.5	7589.9	6197.8
72.5°	4724.3	4809.9	5315.4	6507.7	9554.5	9642.6	9557.1	9469.8	8140.3	7156.4	5404.3
75°	3574.4	3687.8	4139.2	5188.4	8443.5	8887.2	8898.2	9167.5	7522.2	6135.1	3922.4
77.5°	2438.0	2546.3	2974.0	3952.9	7009.0	7717.8	7902.4	8197.1	6285.0	4533.8	2139.9
80°	1372.7	1362.5	1905.3	2824.1	5345.9	5968.3	6200.3	6188.5	4413.6	2327.9	436.1
82.5°	634.3	636.0	974.7	1802.8	3619.2	4029.9	4123.9	3589.6	1548.8	394.6	138.9
85°	315.9	319.2	469.1	904.4	2043.3	2360.9	2244.0	1493.8	331.9	115.2	83.0
87.5°	125.3	120.2	185.5	371.7	737.6	781.6	682.5	298.9	60.1	40.6	27.9
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°	1997.6	1997.6	1997.6	1997.6	1997.6	1997.6	1997.6	1997.6	1997.6	1997.6	1997.6
2.5°	2003.5	2005.2	2012.9	1997.6	2001.8	1998.5	1995.9	2009.5	2008.6	2011.2	2006.9
5°	2009.5	2013.7	2021.3	2014.6	2021.3	2017.9	2020.5	2039.1	2041.6	2040.8	2040.8
7.5°	2025.6	2029.8	2044.2	2035.7	2051.0	2046.7	2047.6	2065.4	2068.7	2063.7	2062.0
10°	2059.4	2062.8	2083.1	2081.4	2087.4	2084.0	2080.6	2088.2	2086.5	2078.9	2075.5
12.5°	2098.4	2107.7	2130.6	2131.4	2139.0	2122.1	2104.3	2101.8	2096.7	2084.8	2082.3
15°	2156.8	2167.8	2202.5	2194.1	2189.0	2152.6	2122.9	2099.2	2078.9	2068.7	2059.4
17.5°	2240.6	2259.3	2307.5	2281.3	2244.0	2190.7	2139.0	2087.4	2044.2	2007.8	1993.4
20°	2347.3	2368.5	2409.2	2374.4	2317.7	2238.1	2154.3	2061.1	1967.1	1886.7	1874.8
22.5°	2474.4	2508.2	2537.9	2458.3	2374.4	2273.7	2154.3	2020.5	1864.7	1744.4	1714.8
25°	2622.6	2648.8	2639.5	2527.7	2406.6	2279.6	2130.6	1948.5	1728.3	1588.6	1564.9
27.5°	2783.5	2795.3	2723.3	2560.7	2410.0	2244.9	2063.7	1820.6	1569.1	1459.0	1436.2
30°	2981.6	2946.0	2808.9	2581.1	2376.1	2167.8	1944.3	1633.5	1439.6	1343.0	1316.8
32.5°	3195.0	3129.8	2869.8	2566.7	2301.6	2039.1	1759.7	1501.4	1353.2	1235.5	1213.5
35°	3601.5	3416.0	2958.7	2523.5	2172.1	1867.2	1581.0	1399.8	1261.7	1135.6	1115.2
37.5°	4150.2	3827.6	3083.2	2463.4	2018.8	1700.4	1448.0	1291.4	1172.0	1041.6	1009.4
40°	4577.0	4243.3	3283.1	2399.0	1877.4	1542.0	1351.5	1234.6	1112.7	973.8	945.9
42.5°	4983.5	4623.6	3528.6	2327.0	1731.7	1431.9	1309.2	1221.9	1096.6	955.2	928.9
45°	5342.5	4931.0	3740.3	2255.0	1567.4	1330.3	1277.8	1197.4	1073.7	931.5	906.1
47.5°	5633.0	5195.2	3924.1	2177.1	1418.4	1253.3	1237.2	1152.5	1029.7	883.2	852.7
50°	5895.5	5418.7	4051.1	2094.2	1272.7	1190.6	1170.3	1070.4	942.5	812.9	793.5
52.5°	6057.2	5570.3	4127.3	2107.7	1134.7	1120.3	1087.3	984.8	866.3	755.4	729.9
55°	6226.6	5713.4	4126.5	2031.5	1019.6	1014.5	983.1	904.4	811.2	718.1	702.8
57.5°	6296.0	5726.1	4049.4	1673.3	917.9	885.8	879.0	837.5	756.2	668.1	651.2
60°	6342.6	5670.2	3903.8	1142.3	790.1	767.2	800.2	772.3	698.6	606.3	589.4
62.5°	6296.8	5609.2	3521.9	824.8	692.7	705.4	736.7	706.2	629.2	545.3	530.9
65°	6187.6	5376.4	2780.9	642.7	649.5	677.4	702.0	651.2	509.8	426.8	418.3
67.5°	5889.5	4933.5	1789.3	589.4	624.9	653.7	662.2	551.3	461.5	381.9	372.6
70°	5262.1	3960.5	689.3	555.5	600.4	613.1	578.4	505.5	424.2	355.7	347.2
72.5°	4116.3	2600.5	398.0	508.1	547.9	536.0	536.9	453.9	382.8	317.6	310.8
75°	2558.2	941.6	354.0	452.2	464.0	486.1	458.1	393.8	329.4	290.5	282.0
77.5°	846.0	267.6	327.7	389.5	415.8	399.7	383.6	336.2	282.0	251.5	247.3
80°	204.9	200.7	293.8	304.9	326.0	298.9	297.2	279.4	238.0	220.2	215.9
82.5°	126.2	144.0	233.7	189.7	217.6	220.2	250.7	230.3	173.6	180.4	174.4
85°	77.9	110.9	122.8	91.5	92.3	123.6	149.9	138.9	104.2	98.2	97.4
87.5°	26.3	22.9	26.3	19.5	26.3	44.9	67.7	64.4	43.2	29.6	27.9
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)