

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: P509423

Luminaire Tested: **VERD-CA2-90-750-U-T3**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-90-750-U-T3
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1250mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13204 lumens
Efficiency: N/A
Efficacy: 140.2 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

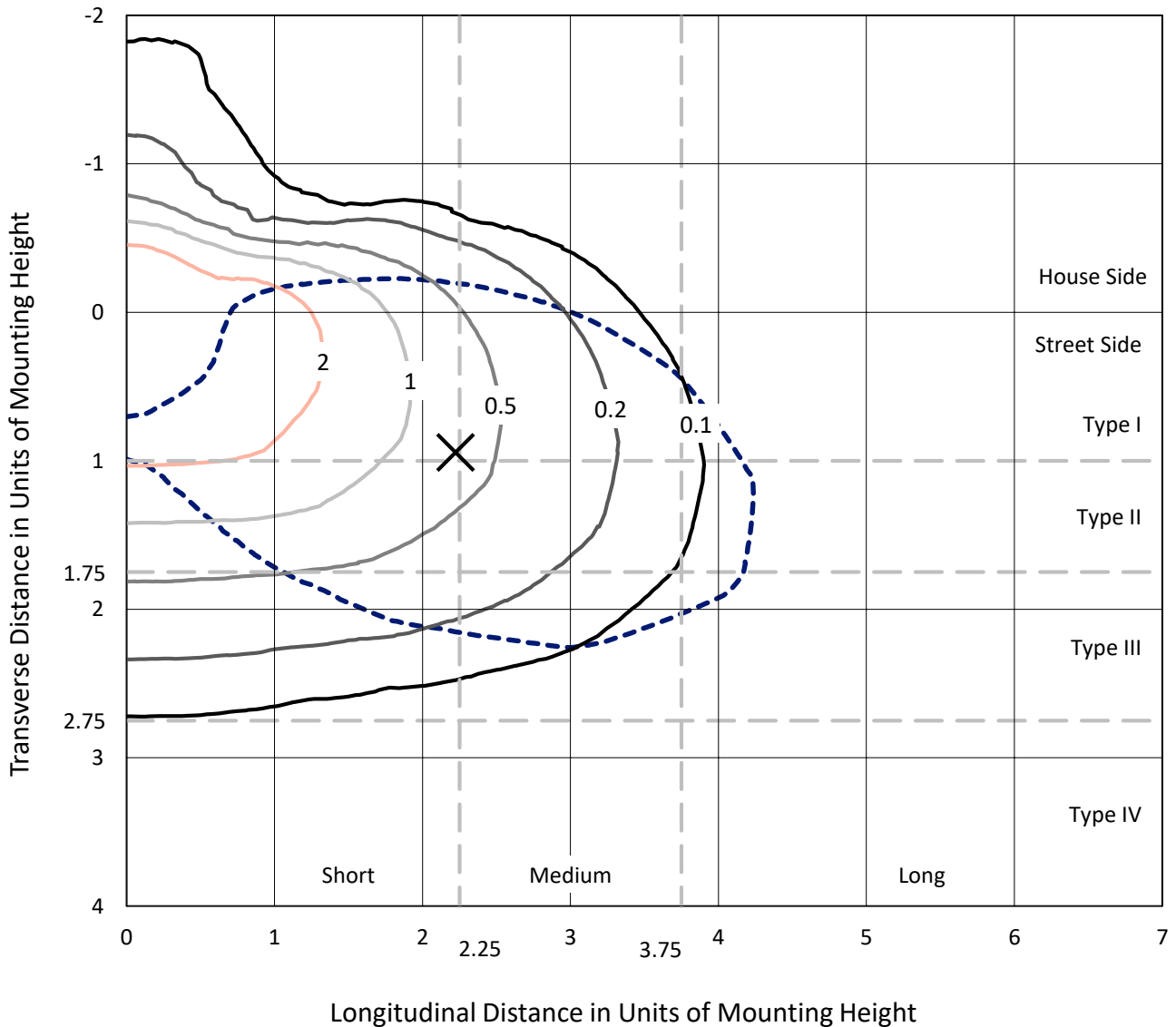
Input Watts (W): 94.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

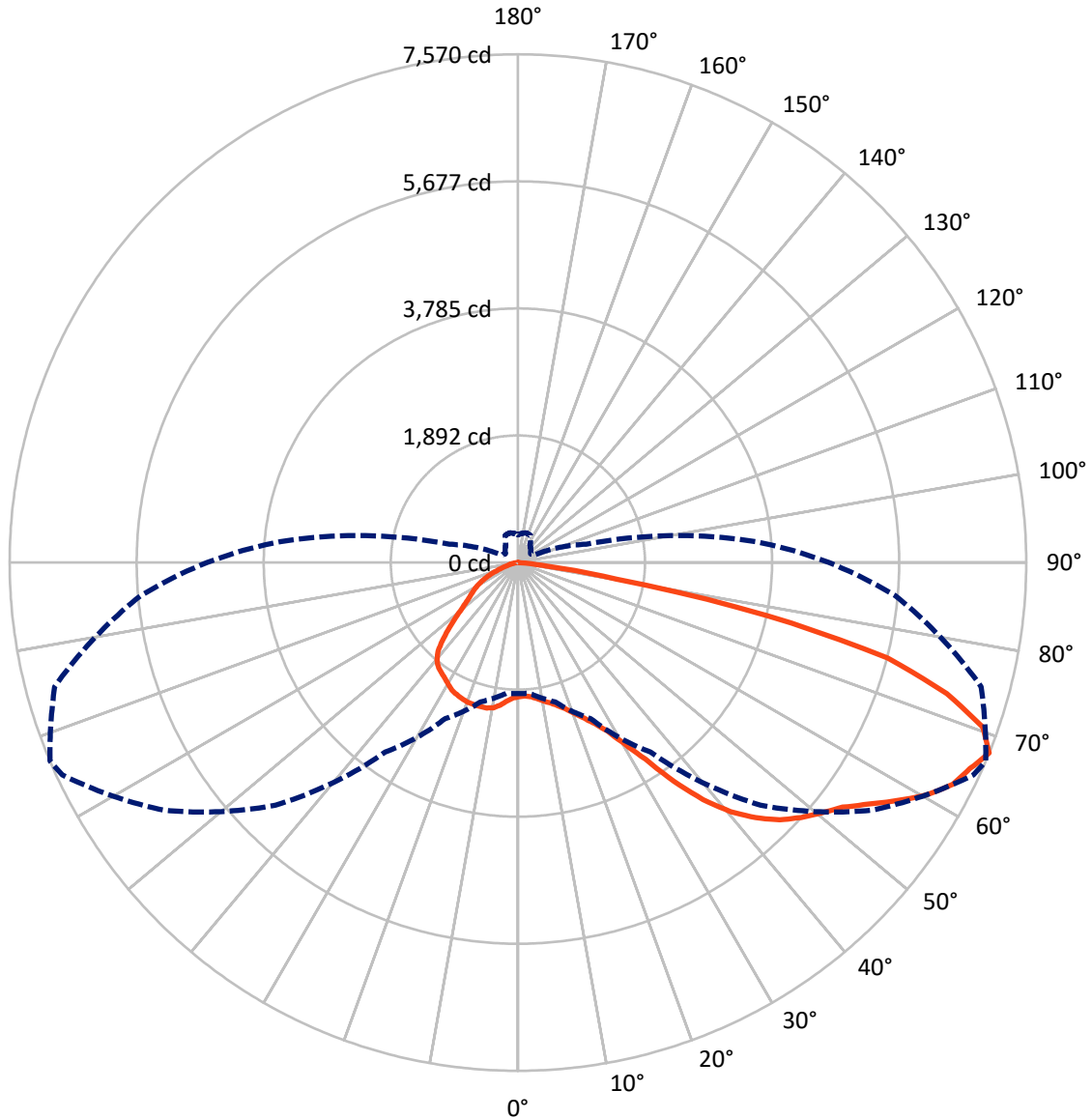
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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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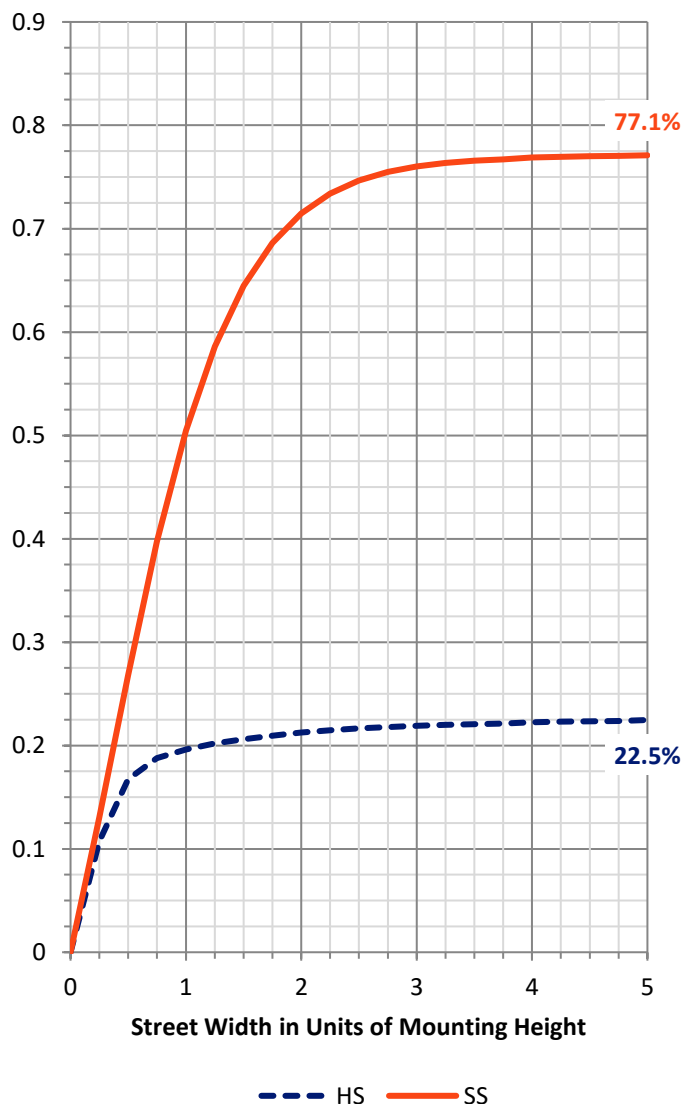
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3019.2	0.0	3019.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	10184.8	0.0	10184.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	13204.0	0.0	13204.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.3	1.5
10°-20°	647.4	4.9
20°-30°	1118.7	8.5
30°-40°	1698.1	12.9
40°-50°	2307.4	17.5
50°-60°	2744.2	20.8
60°-70°	2823.4	21.4
70°-80°	1540.2	11.7
80°-90°	122.4	0.9
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°	13204.0	100.0
0°-180°	13204.0	100.0

Coefficient of Utilization



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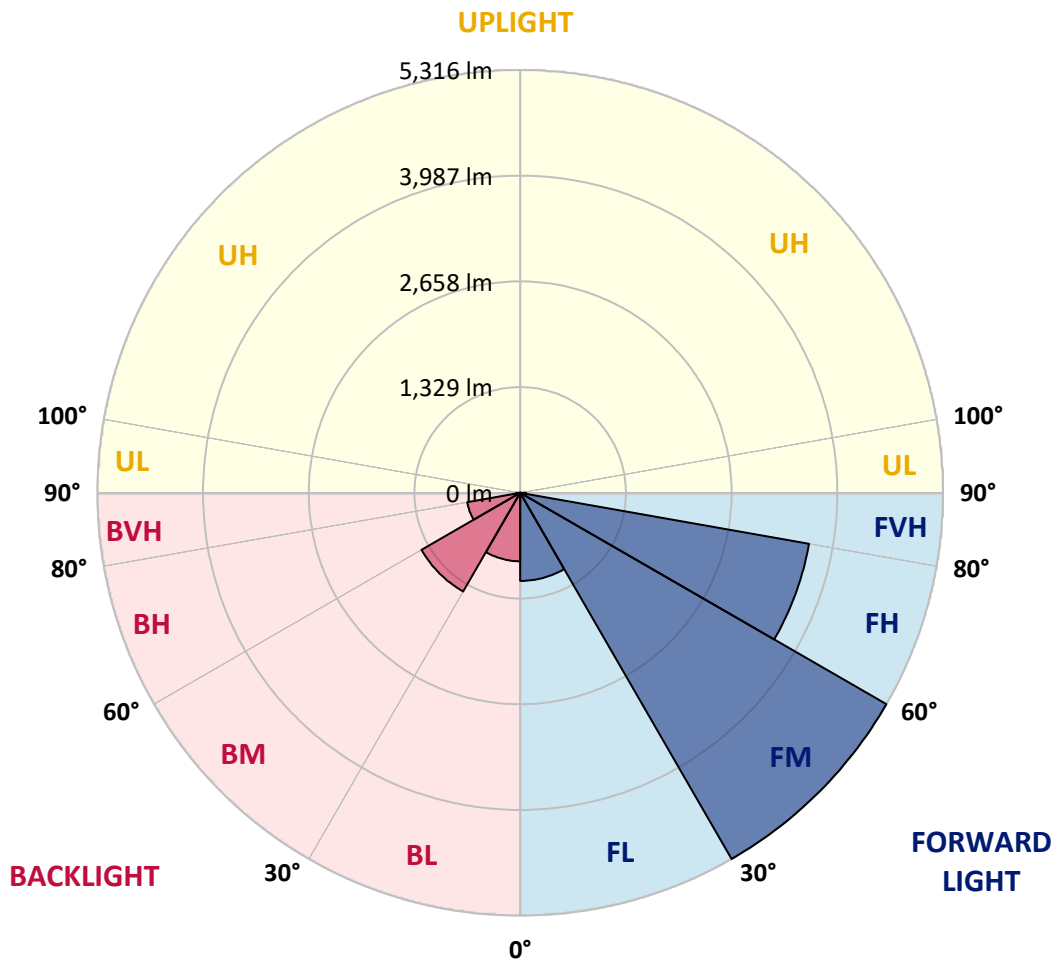
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1107.5	8.4			
FM (30°-60°)	5316.5	40.3			
FH (60°-80°)	3687.6	27.9			G2/5000
FVH (80°-90°)	73.3	0.6			G1/100
BL (0°-30°)	860.9	6.5	B2/1000		
BM (30°-60°)	1433.2	10.9	B2/2500		
BH (60°-80°)	675.9	5.1	B2/1000		G2/1000
BVH (80°-90°)	49.1	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1997.5	1997.5	1997.5	1997.5	1997.5	1997.5	1997.5	1997.5	1997.5	1997.5	1997.5
2.5°	2009.0	2000.4	1989.0	1993.3	1984.7	1999.0	1993.3	1990.4	1990.4	1991.8	1999.0
5°	2054.7	2046.2	2037.6	2036.2	2019.0	2024.7	2016.1	2007.6	2007.6	2006.1	2009.0
7.5°	2134.8	2123.4	2113.4	2111.9	2090.5	2087.6	2061.9	2044.7	2044.7	2043.3	2047.6
10°	2240.6	2236.3	2216.3	2203.5	2177.7	2160.6	2129.1	2101.9	2096.2	2087.6	2099.1
12.5°	2342.2	2340.7	2322.1	2307.8	2272.1	2242.1	2190.6	2153.4	2146.3	2136.2	2144.8
15°	2469.4	2456.5	2436.5	2427.9	2376.5	2330.7	2272.1	2216.3	2209.2	2197.7	2204.9
17.5°	2609.5	2602.4	2570.9	2560.9	2496.6	2443.7	2370.7	2299.3	2287.8	2272.1	2270.7
20°	2778.3	2765.4	2741.1	2712.5	2649.6	2573.8	2489.4	2407.9	2397.9	2385.0	2357.9
22.5°	2959.9	2945.6	2921.3	2891.2	2811.2	2731.1	2625.3	2522.3	2516.6	2508.0	2458.0
25°	3132.9	3108.6	3111.4	3082.8	3011.3	2909.8	2785.4	2662.4	2659.6	2658.2	2578.1
27.5°	3317.3	3291.6	3283.0	3273.0	3205.8	3110.0	2969.9	2852.6	2842.6	2844.0	2722.5
30°	3490.3	3478.9	3471.8	3464.6	3431.7	3345.9	3211.5	3107.1	3138.6	3135.7	2968.4
32.5°	3624.8	3616.2	3646.2	3680.5	3671.9	3600.4	3507.5	3460.3	3491.8	3593.3	3447.5
35°	3743.4	3739.1	3796.3	3869.3	3920.7	3869.3	3859.3	3932.2	4005.1	4173.8	4089.5
37.5°	3872.1	3866.4	3915.0	4039.4	4129.5	4145.2	4221.0	4408.3	4478.4	4647.1	4469.8
40°	3870.7	3877.8	3995.1	4153.8	4318.3	4451.2	4607.1	4788.7	4878.8	4958.8	4684.3
42.5°	3807.8	3812.1	3959.3	4261.1	4499.8	4761.5	4900.2	5133.3	5194.8	5210.5	4937.4
45°	3743.4	3746.3	3906.4	4245.3	4651.4	5051.8	5206.2	5419.3	5466.4	5412.1	5109.0
47.5°	3650.5	3669.1	3842.1	4229.6	4781.5	5319.2	5443.6	5655.2	5673.8	5605.1	5252.0
50°	3540.4	3550.4	3749.2	4178.1	4867.3	5485.0	5632.3	5823.9	5859.7	5782.5	5429.3
52.5°	3406.0	3414.6	3630.5	4109.5	4914.5	5612.3	5776.7	6005.5	6054.1	6019.8	5585.1
55°	3251.6	3255.8	3476.0	3998.0	4901.6	5668.1	5902.6	6262.9	6344.4	6260.0	5715.2
57.5°	3058.5	3074.3	3324.5	3830.7	4804.4	5738.1	6129.9	6580.3	6684.7	6504.5	5812.5
60°	2859.8	2875.5	3102.8	3636.2	4641.4	5769.6	6364.4	6922.1	7013.6	6736.2	5872.5
62.5°	2636.7	2658.2	2846.9	3343.1	4349.7	5728.1	6537.4	7220.9	7272.4	6874.9	5856.8
65°	2312.1	2323.6	2529.5	2989.9	3969.4	5512.2	6530.3	7381.1	7398.2	7027.9	5788.2
67.5°	1951.8	1953.2	2147.7	2563.8	3446.0	5109.0	6430.2	7485.4	7569.8	7140.8	5638.0
70°	1484.2	1504.2	1655.8	1964.7	2816.9	4419.8	6099.9	7382.5	7342.5	6832.0	5207.6
72.5°	1059.5	1048.1	1125.3	1334.1	1971.8	3410.3	5259.1	6670.4	6679.0	6222.9	4531.3
75°	563.4	566.2	632.0	807.9	1006.6	2219.2	4206.7	5635.2	5686.7	5336.3	3546.1
77.5°	125.8	143.0	217.3	308.9	437.5	710.7	2282.1	3696.3	3793.5	3511.8	1943.2
80°	97.2	98.7	143.0	175.9	193.0	340.3	725.0	1341.2	1488.5	1405.6	730.7
82.5°	64.3	65.8	94.4	97.2	92.9	155.9	328.9	401.8	441.8	386.1	271.7
85°	34.3	35.7	42.9	47.2	37.2	45.8	42.9	34.3	35.7	31.5	31.5
87.5°	7.1	4.3	5.7	4.3	4.3	2.9	4.3	4.3	4.3	4.3	4.3
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°	1997.5	1997.5	1997.5	1997.5	1997.5	1997.5	1997.5	1997.5	1997.5	1997.5	1997.5
2.5°	1999.0	2001.8	2009.0	2020.4	2026.1	2039.0	2047.6	2069.0	2099.1	2089.1	2076.2
5°	2010.4	2019.0	2043.3	2073.3	2096.2	2130.5	2147.7	2189.2	2223.5	2220.6	2197.7
7.5°	2053.3	2071.9	2101.9	2146.3	2184.9	2219.2	2243.5	2287.8	2319.3	2306.4	2285.0
10°	2107.6	2126.2	2159.1	2199.2	2227.8	2264.9	2280.7	2316.4	2336.4	2320.7	2302.1
12.5°	2157.7	2167.7	2190.6	2220.6	2236.3	2260.6	2267.8	2293.5	2312.1	2305.0	2282.1
15°	2206.3	2204.9	2209.2	2217.8	2223.5	2229.2	2230.6	2249.2	2262.1	2247.8	2232.0
17.5°	2260.6	2246.3	2227.8	2213.5	2192.0	2182.0	2163.4	2172.0	2170.6	2159.1	2146.3
20°	2329.3	2303.5	2246.3	2202.0	2146.3	2101.9	2063.3	2056.2	2056.2	2024.7	2023.3
22.5°	2410.8	2367.9	2272.1	2174.9	2084.8	2014.7	1943.2	1901.7	1871.7	1848.8	1838.8
25°	2516.6	2438.0	2295.0	2137.7	2004.7	1877.4	1770.2	1713.0	1655.8	1618.6	1612.9
27.5°	2629.6	2543.8	2309.3	2104.8	1894.6	1720.2	1571.4	1454.2	1401.3	1377.0	1354.1
30°	2814.0	2662.4	2335.0	2034.7	1755.9	1527.1	1329.8	1192.5	1141.0	1123.9	1109.6
32.5°	3261.6	2969.9	2359.3	1963.2	1607.2	1314.1	1053.8	938.0	893.7	910.8	916.6
35°	3822.1	3427.4	2475.1	1880.3	1452.8	1072.4	810.7	733.5	736.4	762.1	770.7
37.5°	4202.4	3830.7	2711.1	1775.9	1231.1	795.0	627.7	603.4	624.9	647.7	652.0
40°	4425.5	4015.1	2876.9	1647.2	969.5	594.8	471.9	454.7	500.5	551.9	583.4
42.5°	4662.9	4172.4	2962.7	1479.9	680.6	430.4	361.8	374.6	447.6	491.9	511.9
45°	4790.1	4295.4	2924.1	1241.1	463.3	334.6	324.6	360.3	433.3	473.3	479.0
47.5°	4927.4	4418.3	2831.2	992.3	354.6	317.4	318.9	361.8	436.1	479.0	479.0
50°	5046.1	4519.9	2665.3	777.9	337.5	306.0	320.3	368.9	440.4	477.6	476.2
52.5°	5183.3	4565.6	2429.4	629.1	320.3	296.0	321.7	374.6	433.3	454.7	451.8
55°	5226.2	4532.7	2316.4	526.2	307.4	290.3	327.4	383.2	430.4	434.7	427.5
57.5°	5226.2	4444.1	2187.7	449.0	296.0	290.3	330.3	381.8	446.1	473.3	470.4
60°	5203.3	4351.1	1990.4	401.8	280.3	287.4	331.7	403.2	530.5	560.5	559.1
62.5°	5130.4	4201.0	1747.3	354.6	264.5	288.8	327.4	433.3	606.3	593.4	561.9
65°	4957.4	3917.9	1417.0	311.7	247.4	288.8	321.7	476.2	539.1	514.8	503.3
67.5°	4631.4	3561.8	1053.8	267.4	227.4	270.2	313.1	446.1	457.6	430.4	413.2
70°	4201.0	3017.1	676.3	225.9	205.9	254.5	307.4	419.0	441.8	408.9	387.5
72.5°	3500.4	2396.5	391.8	184.5	174.4	234.5	296.0	406.1	434.7	390.4	360.3
75°	2469.4	1512.8	257.4	135.8	140.1	200.2	274.5	380.3	407.5	353.2	310.3
77.5°	1258.3	567.7	183.0	100.1	94.4	153.0	237.4	350.3	401.8	356.0	304.6
80°	444.7	286.0	120.1	65.8	61.5	94.4	181.6	297.4	377.5	347.5	337.5
82.5°	190.2	143.0	65.8	41.5	37.2	47.2	103.0	234.5	331.7	314.6	380.3
85°	27.2	24.3	18.6	15.7	15.7	21.4	32.9	115.8	224.5	255.9	310.3
87.5°	4.3	4.3	4.3	2.9	2.9	2.9	1.4	17.2	74.4	111.5	154.4
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)