

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: P509487

Luminaire Tested: **VERD-G-CA2-110-722-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509487
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-4)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-110-722-U-T3
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1020mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13375 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

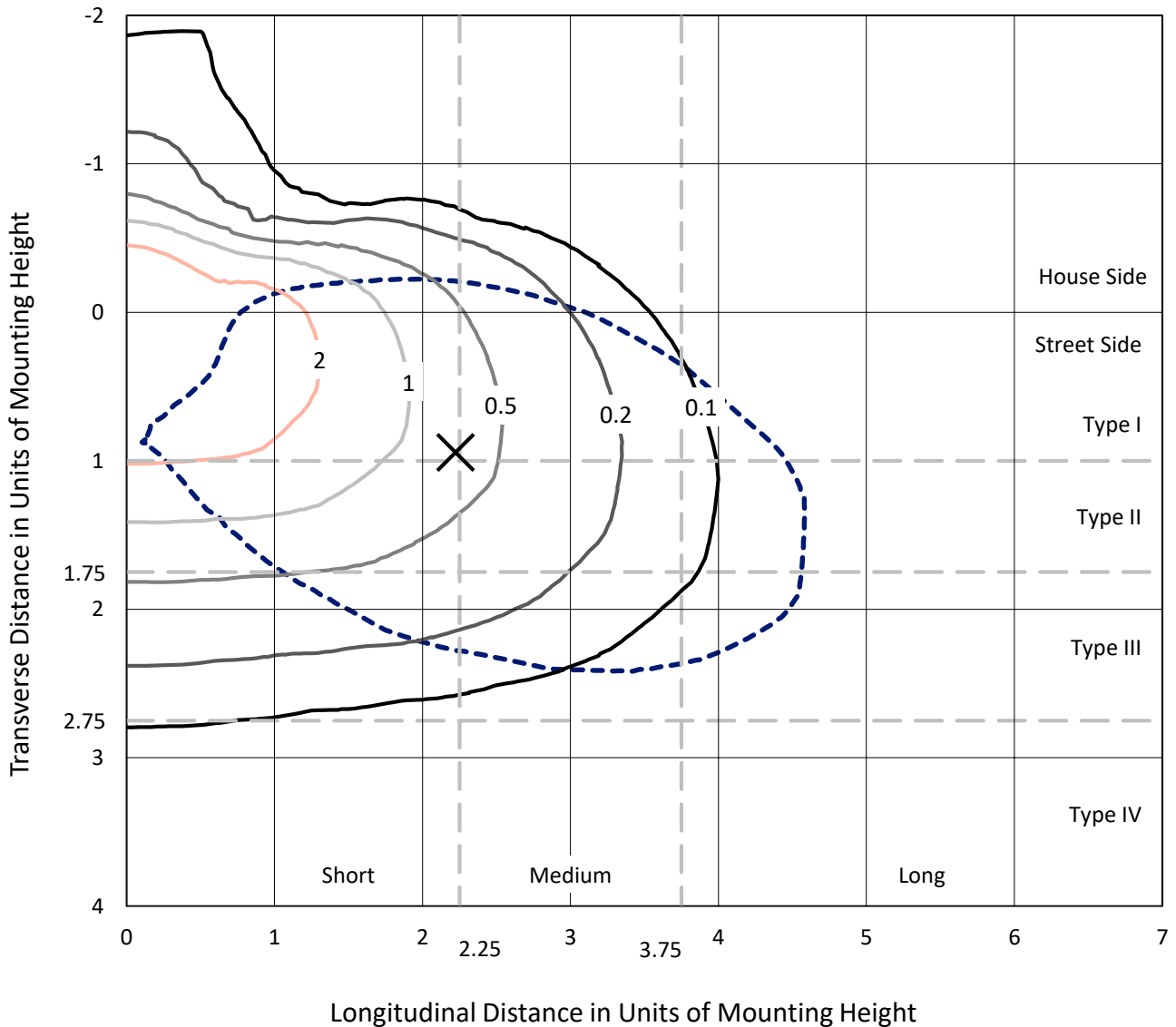
Input Watts (W): 113.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

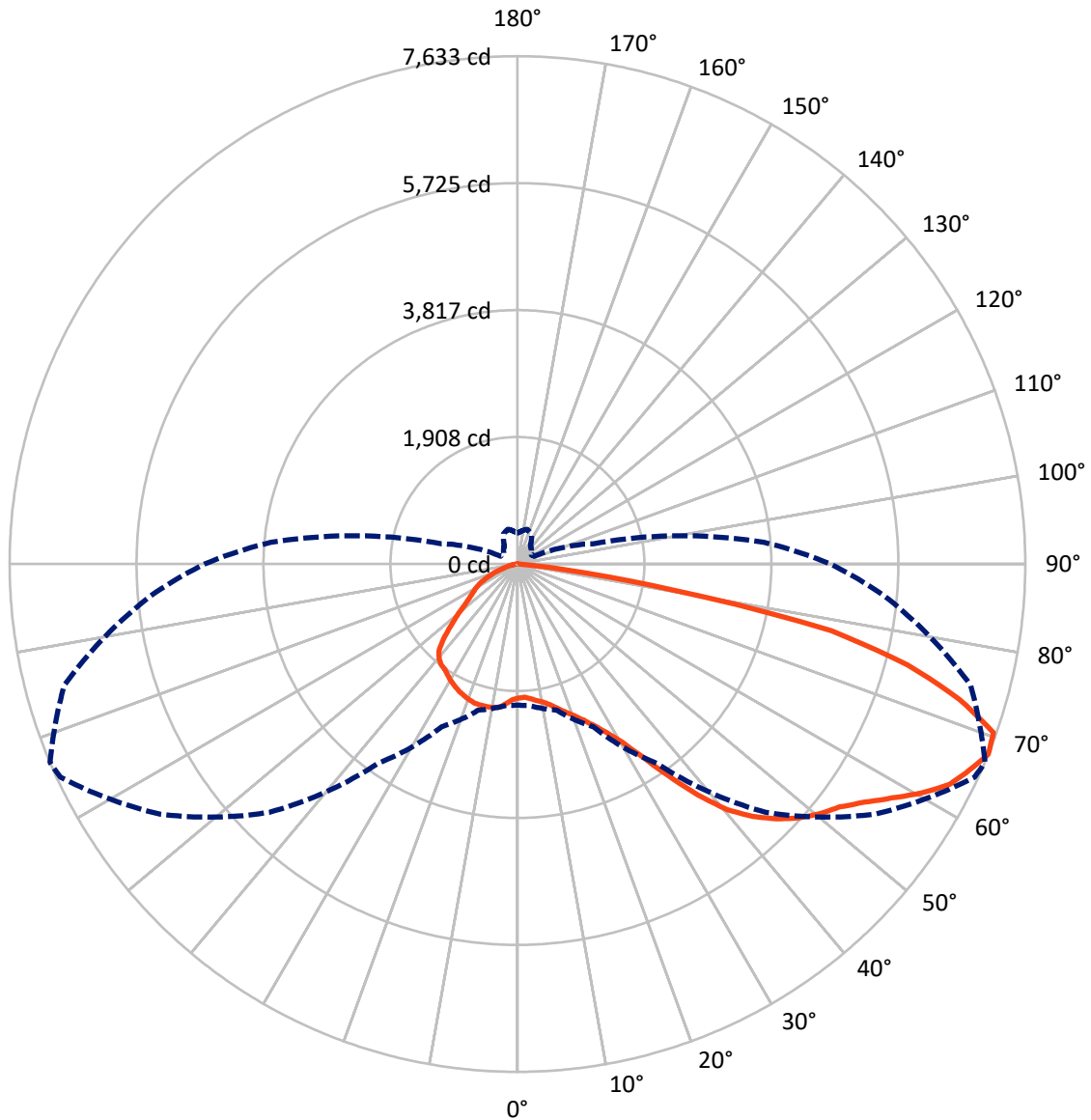
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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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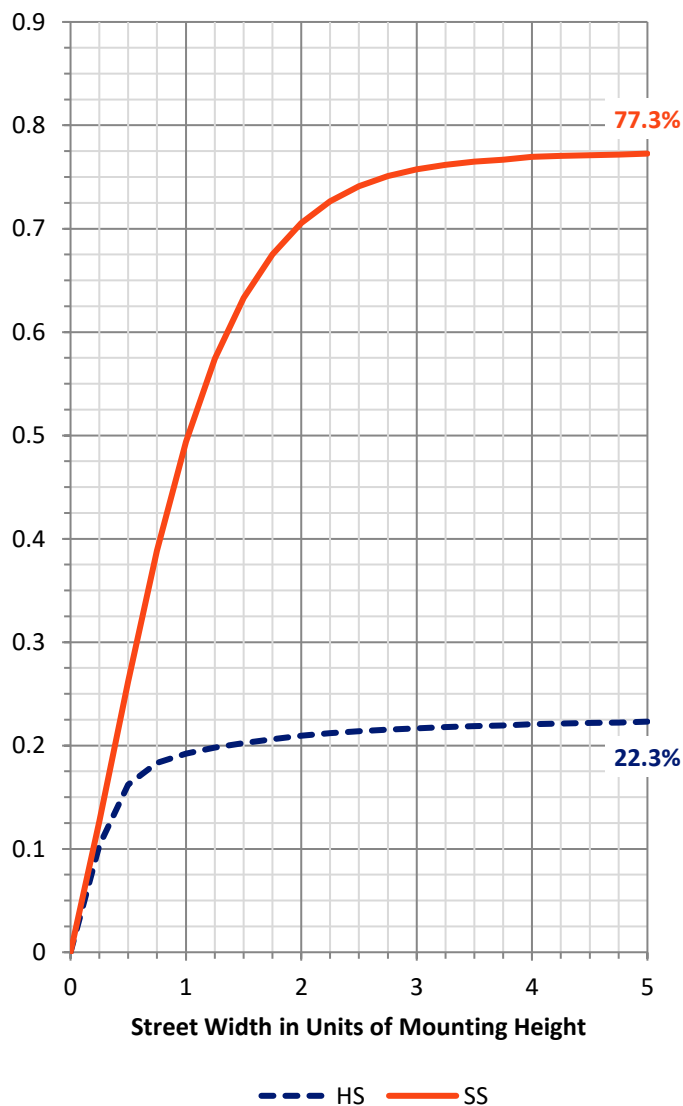
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3034.8	0.0	3034.8
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	10340.2	0.0	10340.2
	% Fixture	77.3	0.0	77.3
Total	Lumens	13375.0	0.0	13375.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.2	1.5
10°-20°	646.5	4.8
20°-30°	1108.8	8.3
30°-40°	1650.1	12.3
40°-50°	2256.1	16.9
50°-60°	2710.0	20.3
60°-70°	2874.9	21.5
70°-80°	1756.2	13.1
80°-90°	168.2	1.3
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°	13375.0	100.0
0°-180°	13375.0	100.0

Coefficient of Utilization



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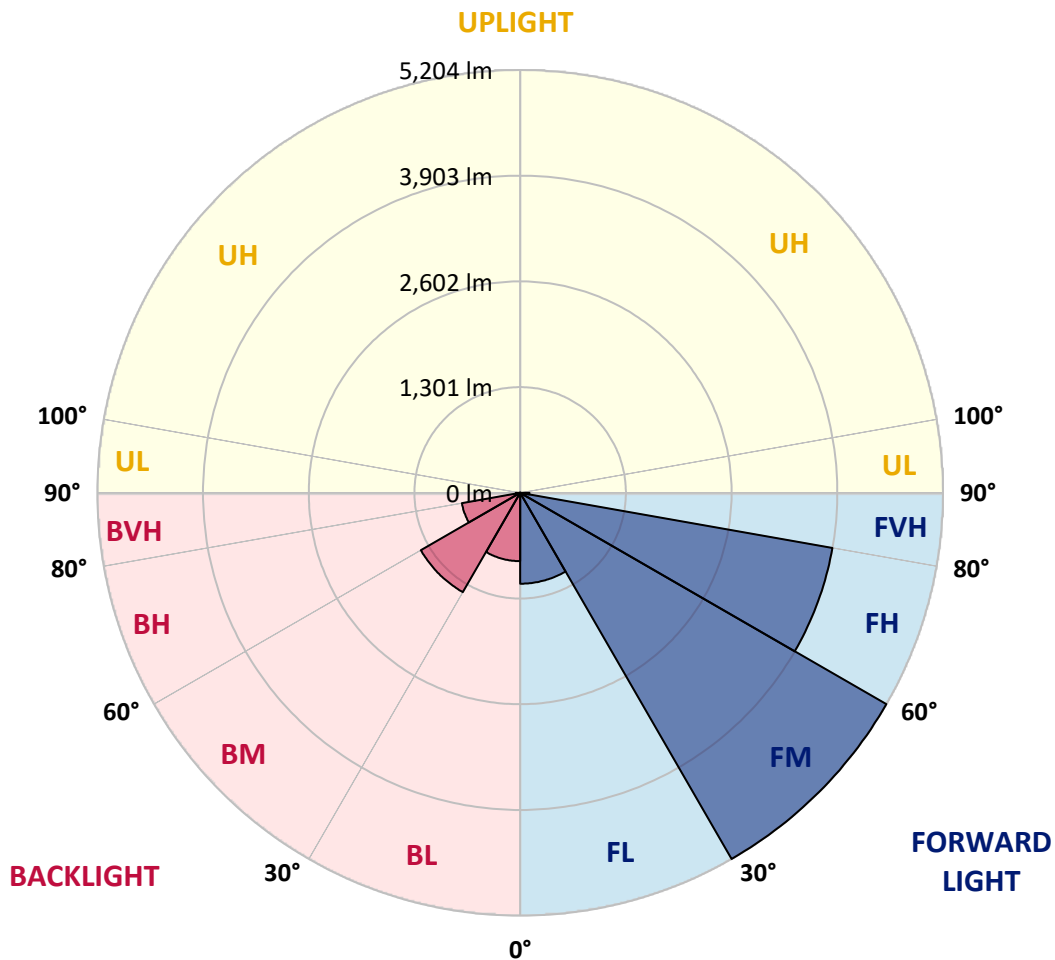
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1118.7	8.4			
FM (30°-60°)	5204.5	38.9			
FH (60°-80°)	3902.5	29.2			G2/5000
FVH (80°-90°)	114.5	0.9			G2/225
BL (0°-30°)	840.8	6.3	B2/1000		
BM (30°-60°)	1411.7	10.6	B2/2500		
BH (60°-80°)	728.7	5.4	B2/1000		G2/1000
BVH (80°-90°)	53.7	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°	2016.6	2016.6	2016.6	2016.6	2016.6	2016.6	2016.6	2016.6	2016.6	2016.6	2016.6
2.5°	2048.5	2058.2	2042.3	2031.6	2020.1	2026.3	2011.3	2011.3	2004.2	2015.7	2008.6
5°	2114.9	2123.8	2096.3	2074.2	2072.4	2053.8	2052.0	2043.2	2032.5	2042.3	2052.0
7.5°	2203.5	2200.0	2180.5	2154.8	2129.1	2118.5	2100.8	2087.5	2071.5	2080.4	2083.0
10°	2311.6	2305.4	2279.7	2239.0	2218.6	2189.4	2145.1	2120.2	2108.7	2117.6	2120.2
12.5°	2426.8	2418.8	2394.0	2348.8	2313.4	2267.3	2216.8	2177.0	2169.0	2160.1	2175.2
15°	2556.2	2542.0	2520.7	2484.4	2429.5	2369.2	2300.1	2262.0	2250.5	2235.4	2228.3
17.5°	2696.2	2694.4	2666.9	2627.1	2571.2	2487.9	2399.3	2340.0	2340.0	2333.8	2295.7
20°	2846.8	2839.7	2812.2	2790.1	2711.2	2623.5	2515.4	2440.1	2432.1	2419.7	2356.8
22.5°	2998.3	2999.2	2963.7	2946.9	2888.4	2775.9	2639.5	2564.1	2548.2	2531.4	2422.4
25°	3135.6	3137.4	3126.8	3095.8	3047.9	2944.3	2801.6	2701.5	2692.6	2669.6	2537.6
27.5°	3274.7	3296.9	3265.9	3269.4	3248.2	3129.4	2986.8	2865.4	2874.3	2823.8	2643.0
30°	3439.5	3447.5	3432.4	3436.9	3423.6	3345.6	3207.4	3109.1	3109.1	3051.5	2822.0
32.5°	3571.6	3564.5	3565.4	3611.4	3617.6	3575.1	3461.7	3429.8	3457.3	3450.2	3243.7
35°	3637.1	3649.5	3684.1	3789.5	3840.9	3815.2	3801.9	3844.4	3913.6	3957.9	3704.5
37.5°	3721.3	3759.4	3802.8	3920.6	4015.5	4086.3	4159.0	4299.0	4398.2	4455.8	4142.2
40°	3808.1	3811.7	3898.5	4044.7	4229.9	4342.4	4515.2	4756.2	4853.6	4810.2	4384.9
42.5°	3740.8	3749.6	3870.1	4130.6	4362.8	4650.7	4837.7	5115.9	5183.2	5051.2	4635.7
45°	3654.0	3670.8	3823.2	4130.6	4509.0	4933.4	5146.9	5457.0	5465.0	5286.9	4787.2
47.5°	3576.9	3591.0	3751.4	4098.7	4646.3	5181.5	5395.9	5648.4	5702.4	5479.2	4988.3
50°	3474.1	3509.5	3667.2	4070.4	4710.1	5354.2	5616.5	5878.8	5897.4	5660.8	5138.9
52.5°	3362.5	3393.5	3587.5	4017.2	4791.6	5496.9	5762.7	6100.3	6065.7	5903.6	5308.2
55°	3211.8	3239.3	3463.5	3932.2	4801.4	5574.0	5868.1	6305.8	6319.1	6105.6	5472.1
57.5°	3039.1	3085.1	3288.9	3774.5	4711.9	5597.0	6049.8	6584.0	6635.4	6355.4	5603.2
60°	2852.1	2888.4	3119.7	3607.0	4593.1	5683.8	6298.7	6944.6	6985.4	6573.4	5656.4
62.5°	2660.7	2690.8	2882.2	3355.4	4375.2	5700.7	6515.8	7307.0	7293.7	6767.4	5729.9
65°	2422.4	2425.0	2605.8	3051.5	4072.2	5580.2	6627.4	7454.1	7467.4	6943.8	5645.7
67.5°	2119.4	2136.2	2273.5	2697.1	3659.3	5277.1	6556.6	7580.8	7633.1	7052.7	5538.5
70°	1687.9	1697.6	1841.2	2235.4	3110.8	4808.4	6421.9	7600.3	7588.8	6911.9	5243.5
72.5°	1200.6	1237.8	1334.3	1571.8	2386.9	3935.7	5813.2	6998.7	6945.5	6367.8	4677.3
75°	771.7	775.3	871.8	1026.9	1397.3	2790.1	4845.7	6032.9	6055.1	5523.5	3808.1
77.5°	255.2	288.0	319.9	433.3	579.5	1161.6	3271.2	4755.3	4822.6	4351.3	2598.7
80°	112.5	112.5	190.5	245.4	312.8	497.9	1305.1	2152.1	2358.6	2029.0	1001.2
82.5°	82.4	84.2	127.6	146.2	123.2	207.3	468.7	689.3	731.0	656.5	397.8
85°	47.0	48.7	54.9	62.9	52.3	84.2	103.7	106.3	107.2	93.0	72.7
87.5°	21.3	21.3	19.5	16.8	9.7	6.2	6.2	4.4	5.3	4.4	3.5
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°	2016.6	2016.6	2016.6	2016.6	2016.6	2016.6	2016.6	2016.6	2016.6	2016.6	2016.6
2.5°	2006.0	2014.8	2034.3	2037.8	2046.7	2060.0	2076.8	2084.8	2111.4	2123.8	2127.3
5°	2053.8	2058.2	2091.9	2103.4	2143.3	2163.7	2181.4	2193.8	2226.6	2234.5	2248.7
7.5°	2090.1	2105.2	2145.9	2171.6	2196.4	2217.7	2215.9	2245.2	2262.0	2275.3	2280.6
10°	2127.3	2135.3	2177.0	2188.5	2207.1	2223.0	2227.5	2235.4	2239.9	2258.5	2264.7
12.5°	2184.9	2179.6	2184.9	2194.7	2209.7	2206.2	2215.9	2204.4	2210.6	2234.5	2225.7
15°	2227.5	2215.1	2192.0	2192.9	2183.2	2178.7	2164.6	2154.8	2153.9	2159.2	2168.1
17.5°	2275.3	2239.0	2196.4	2184.9	2148.6	2113.2	2088.4	2061.8	2057.3	2062.7	2056.5
20°	2316.9	2268.2	2194.7	2158.3	2087.5	2023.7	1987.3	1947.5	1945.7	1942.2	1935.1
22.5°	2367.5	2306.3	2193.8	2120.2	2036.1	1933.3	1858.0	1827.9	1791.5	1805.7	1803.9
25°	2442.8	2366.6	2201.8	2079.5	1943.0	1820.8	1724.2	1657.7	1621.4	1613.4	1617.0
27.5°	2535.8	2434.8	2206.2	2028.1	1858.0	1683.4	1530.2	1430.0	1407.9	1378.6	1381.3
30°	2671.4	2527.8	2227.5	1971.4	1733.1	1508.0	1325.5	1195.2	1158.0	1164.2	1166.0
32.5°	2991.2	2719.2	2242.5	1905.8	1595.7	1314.0	1075.6	945.4	916.1	926.8	933.0
35°	3411.2	3086.0	2324.9	1821.7	1439.8	1087.1	824.9	751.3	757.5	777.9	783.2
37.5°	3827.6	3475.0	2506.6	1748.1	1240.4	832.0	658.3	614.9	651.2	670.7	676.9
40°	4083.7	3733.7	2706.8	1634.7	987.0	611.4	501.5	476.7	518.3	563.5	585.7
42.5°	4342.4	3945.5	2837.0	1496.5	706.2	444.8	373.0	393.4	461.6	506.8	517.4
45°	4507.2	4054.4	2849.4	1276.8	470.5	344.7	340.2	383.6	453.6	490.0	496.2
47.5°	4667.6	4200.6	2797.2	1022.5	354.4	327.8	337.6	388.1	457.2	497.9	497.1
50°	4827.0	4344.2	2683.8	811.6	334.9	317.2	342.9	396.9	463.4	494.4	494.4
52.5°	4924.5	4415.0	2456.1	645.9	322.5	311.0	345.5	400.5	457.2	474.9	472.2
55°	5041.5	4431.9	2302.8	537.8	309.2	306.6	350.9	410.2	456.3	458.1	451.9
57.5°	5102.6	4390.2	2177.8	457.2	297.7	308.3	357.1	412.9	482.0	503.3	506.8
60°	5076.0	4339.7	2036.1	406.7	287.1	305.7	355.3	433.3	561.7	606.0	598.1
62.5°	5050.3	4244.9	1797.7	365.0	275.6	307.4	353.5	480.2	660.1	614.0	589.2
65°	4957.3	4048.2	1487.6	325.2	261.4	308.3	350.0	530.7	676.0	620.2	577.7
67.5°	4702.1	3720.4	1176.6	282.6	244.5	295.9	342.0	498.8	541.4	487.3	464.3
70°	4322.0	3245.5	807.2	244.5	224.2	280.9	336.7	472.2	508.6	470.5	441.2
72.5°	3708.9	2550.0	447.4	204.7	196.7	262.3	335.8	466.0	512.1	403.1	371.2
75°	2820.2	1691.4	290.6	160.4	161.3	233.9	319.9	444.8	496.2	379.2	335.8
77.5°	1661.3	712.4	202.9	114.3	125.8	181.6	284.4	426.2	469.6	371.2	335.8
80°	564.4	313.7	132.0	77.1	77.1	116.1	202.9	348.2	418.2	361.5	358.0
82.5°	293.3	199.4	84.2	47.8	44.3	55.8	124.9	239.2	335.8	306.6	349.1
85°	58.5	41.6	26.6	19.5	21.3	28.4	44.3	121.4	212.6	236.6	283.5
87.5°	4.4	3.5	5.3	5.3	5.3	5.3	6.2	30.1	85.1	104.6	129.4
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)