

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: P553498

Luminaire Tested: **VERD-G-CA2-140-722-U-T3-HSS**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553498
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-5)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-140-722-U-T3-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1290mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15461 lumens
Efficiency: N/A
Efficacy: 108.6 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

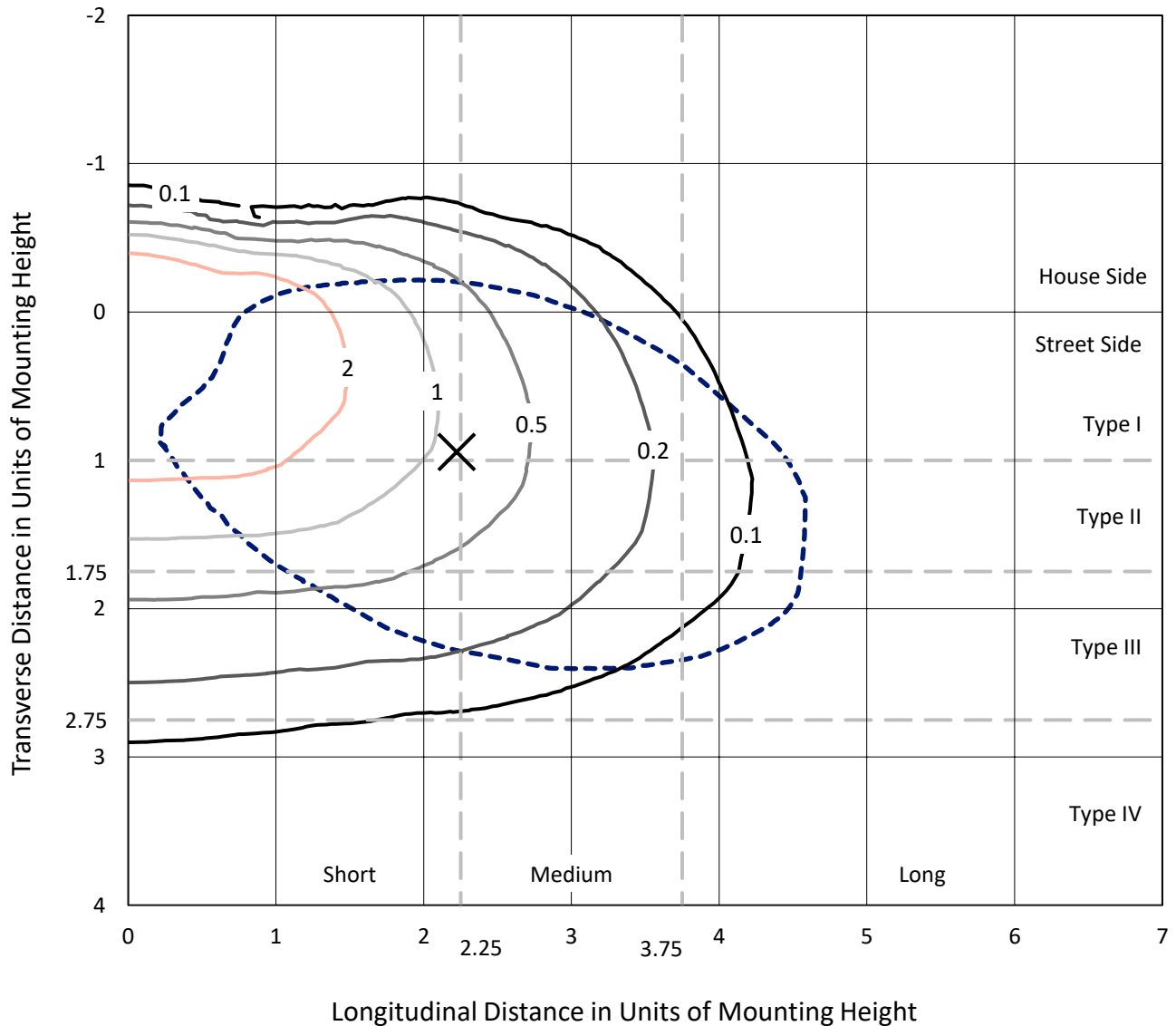
Input Watts (W): 142.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

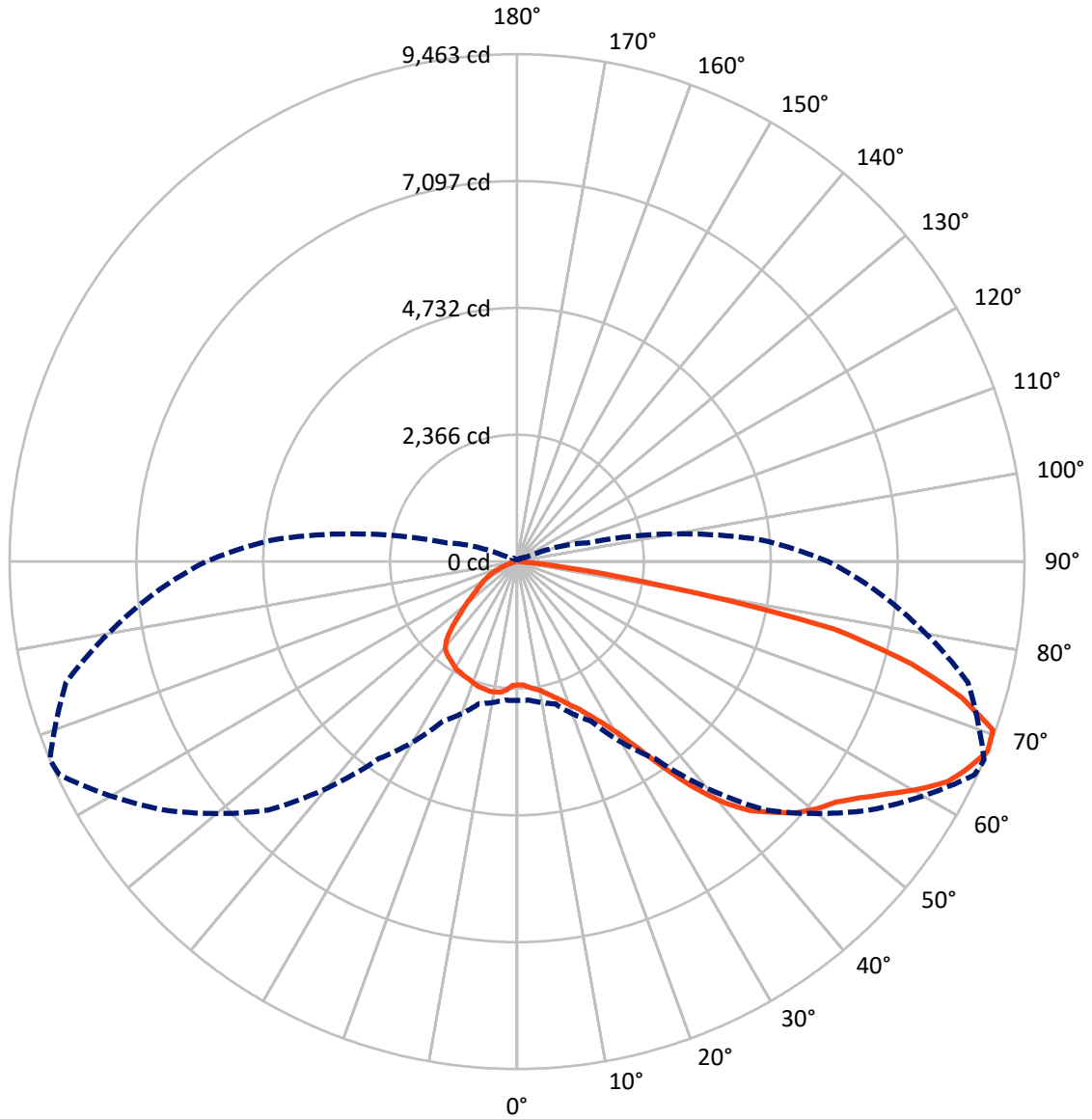
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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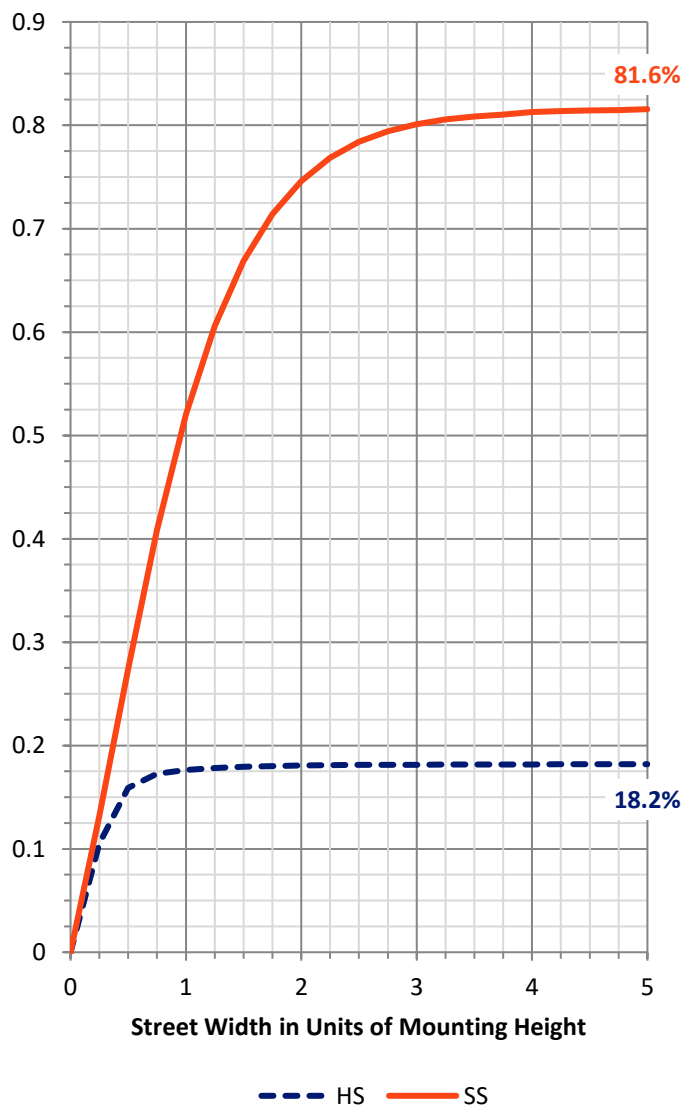
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2845.8	0.0	2845.8
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	12615.2	0.0	12615.2
	% Fixture	81.6	0.0	81.6
Total	Lumens	15461.0	0.0	15461.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.5	1.5
10°-20°	723.7	4.7
20°-30°	1233.8	8.0
30°-40°	1881.9	12.2
40°-50°	2652.9	17.2
50°-60°	3206.6	20.7
60°-70°	3377.2	21.8
70°-80°	2009.0	13.0
80°-90°	144.4	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°	15461.0	100.0
0°-180°	15461.0	100.0

Coefficient of Utilization



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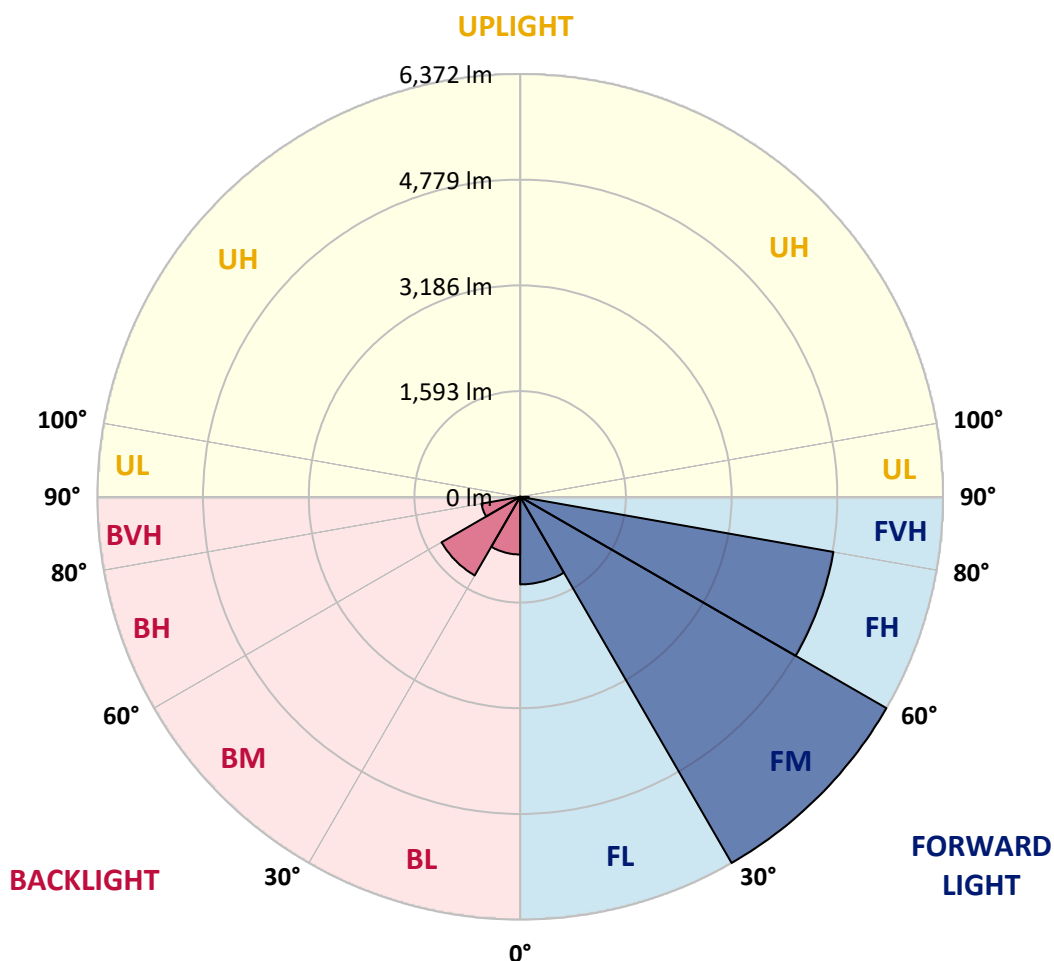
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1320.0	8.5			
FM	(30°-60°)	6372.3	41.2			
FH	(60°-80°)	4793.7	31.0			G2/5000
FVH	(80°-90°)	129.2	0.8			G2/225
BL	(0°-30°)	869.1	5.6	B2/1000		
BM	(30°-60°)	1369.1	8.9	B2/2500		
BH	(60°-80°)	592.4	3.8	B2/1000		G2/1000
BVH	(80°-90°)	15.2	0.1			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°	2301.7	2301.7	2301.7	2301.7	2301.7	2301.7	2301.7	2301.7	2301.7	2301.7	2301.7
2.5°	2350.3	2359.2	2341.5	2337.0	2313.8	2317.1	2312.7	2301.7	2306.1	2297.2	2302.8
5°	2441.0	2417.8	2411.2	2397.9	2376.9	2364.7	2347.0	2341.5	2353.6	2343.7	2345.9
7.5°	2537.2	2541.7	2511.8	2486.4	2448.8	2439.9	2408.9	2390.1	2402.3	2389.0	2396.8
10°	2657.8	2664.4	2632.4	2598.1	2566.0	2519.5	2480.8	2451.0	2447.7	2441.0	2452.1
12.5°	2816.0	2814.9	2779.5	2737.4	2674.4	2642.3	2568.2	2526.2	2531.7	2507.4	2505.2
15°	2999.6	2984.1	2943.2	2900.0	2821.5	2758.4	2668.9	2616.9	2625.7	2598.1	2591.4
17.5°	3178.7	3163.3	3131.2	3083.6	3011.7	2914.4	2804.9	2729.7	2727.5	2714.2	2674.4
20°	3362.3	3369.0	3325.8	3282.7	3210.8	3080.3	2956.4	2859.1	2861.3	2838.1	2760.7
22.5°	3576.9	3564.7	3512.8	3492.9	3411.0	3268.3	3130.1	3018.4	2996.2	2991.8	2858.0
25°	3781.5	3773.8	3726.2	3703.0	3634.4	3503.9	3324.7	3190.9	3187.6	3173.2	2984.1
27.5°	3944.1	3953.0	3948.5	3931.9	3856.7	3728.4	3571.4	3411.0	3413.2	3392.2	3147.8
30°	4175.3	4148.7	4138.8	4152.0	4145.4	4007.2	3840.1	3724.0	3716.3	3662.1	3354.6
32.5°	4310.2	4323.5	4336.8	4383.2	4384.3	4281.5	4173.1	4117.8	4148.7	4157.6	3868.9
35°	4434.1	4434.1	4510.4	4627.6	4668.6	4633.2	4586.7	4656.4	4717.2	4840.0	4501.6
37.5°	4544.7	4576.8	4648.7	4795.8	4929.6	4963.9	5065.6	5257.0	5331.1	5442.8	5034.7
40°	4637.6	4660.8	4752.6	4932.9	5163.0	5320.0	5510.3	5814.4	5891.8	5870.8	5331.1
42.5°	4534.7	4572.3	4719.4	5090.0	5379.7	5675.1	5923.9	6252.4	6346.4	6151.8	5643.0
45°	4479.4	4493.8	4647.6	5067.8	5539.0	6034.5	6316.6	6668.3	6668.3	6450.4	5863.1
47.5°	4368.8	4394.3	4576.8	5039.1	5708.2	6334.3	6619.6	6978.0	7001.2	6732.4	6082.1
50°	4257.1	4289.2	4496.0	4988.2	5803.4	6635.1	6877.3	7236.8	7245.6	6926.0	6275.6
52.5°	4146.5	4163.1	4394.3	4955.0	5908.4	6789.9	7099.6	7446.9	7451.3	7215.8	6489.1
55°	3948.5	3989.5	4228.4	4833.4	5902.9	6860.7	7215.8	7727.9	7771.0	7531.0	6699.2
57.5°	3762.7	3774.9	4035.9	4657.5	5813.3	6942.6	7465.7	8130.4	8172.5	7817.4	6855.2
60°	3515.0	3528.2	3809.2	4448.5	5680.6	7024.4	7783.2	8600.5	8619.3	8118.3	6972.4
62.5°	3256.2	3301.5	3532.7	4127.7	5405.2	7038.8	8051.9	9034.1	9026.3	8379.3	7049.9
65°	2952.0	2968.6	3190.9	3752.8	4983.8	6929.3	8162.5	9244.2	9263.0	8562.9	6999.0
67.5°	2587.0	2593.6	2746.3	3286.0	4485.0	6552.1	8070.7	9415.7	9463.2	8706.7	6786.6
70°	2043.9	2053.9	2194.4	2707.6	3777.1	5974.8	7915.9	9435.6	9415.7	8577.3	6463.7
72.5°	1424.6	1410.2	1547.3	1899.1	2860.2	4914.1	7168.2	8632.6	8668.0	7935.8	5787.9
75°	682.4	686.8	958.9	1168.0	1606.0	3510.5	5965.9	7433.6	7581.9	6916.0	4715.0
77.5°	116.1	118.3	253.3	460.1	647.0	1473.2	3956.3	5920.6	6046.7	5428.4	3192.0
80°	92.9	92.9	123.9	247.8	342.9	610.5	1498.7	2624.6	2761.8	2458.7	1176.8
82.5°	63.0	66.4	88.5	144.9	121.7	238.9	544.2	830.6	852.8	773.1	483.3
85°	35.4	36.5	45.3	58.6	50.9	88.5	111.7	113.9	120.6	94.0	71.9
87.5°	4.4	10.0	10.0	10.0	4.4	4.4	3.3	3.3	4.4	3.3	3.3
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°	2301.7	2301.7	2301.7	2301.7	2301.7	2301.7	2301.7	2301.7	2301.7	2301.7	2301.7
2.5°	2299.4	2286.2	2314.9	2309.4	2329.3	2326.0	2342.6	2351.4	2370.2	2394.6	2392.3
5°	2348.1	2347.0	2381.3	2397.9	2415.6	2432.2	2433.3	2449.9	2466.5	2503.0	2501.8
7.5°	2394.6	2404.5	2453.2	2454.3	2460.9	2473.1	2456.5	2462.0	2466.5	2479.7	2484.2
10°	2448.8	2467.6	2468.7	2464.2	2443.2	2442.1	2404.5	2408.9	2389.0	2404.5	2396.8
12.5°	2518.4	2503.0	2494.1	2464.2	2432.2	2389.0	2353.6	2305.0	2293.9	2293.9	2297.2
15°	2587.0	2563.8	2487.5	2439.9	2381.3	2312.7	2255.2	2199.9	2172.2	2160.1	2157.9
17.5°	2646.7	2598.1	2489.7	2427.7	2317.1	2216.5	2130.2	2041.7	1998.6	1971.0	1966.5
20°	2695.4	2643.4	2496.3	2387.9	2247.5	2099.3	1968.7	1857.0	1771.9	1708.8	1715.5
22.5°	2777.2	2694.3	2491.9	2340.4	2166.7	1974.3	1777.4	1623.7	1481.0	1445.6	1455.5
25°	2875.7	2767.3	2517.3	2311.6	2072.7	1817.2	1558.4	1380.3	1227.7	1179.0	1182.3
27.5°	2989.6	2855.8	2546.1	2264.0	1975.4	1623.7	1311.8	1091.7	970.0	873.8	866.0
30°	3171.0	2976.3	2577.1	2233.1	1839.3	1408.0	1043.0	814.0	661.4	609.4	609.4
32.5°	3596.8	3220.8	2626.8	2159.0	1660.2	1166.9	761.0	533.1	398.2	351.7	352.8
35°	4137.7	3714.1	2739.6	2068.3	1448.9	884.8	470.1	296.4	233.4	210.1	207.9
37.5°	4654.2	4167.5	2980.8	1962.1	1182.3	560.8	264.3	182.5	159.3	158.2	159.3
40°	4972.7	4525.9	3223.0	1820.5	863.8	308.6	171.4	149.3	146.0	142.7	142.7
42.5°	5266.9	4772.5	3406.6	1603.7	515.4	186.9	150.4	136.0	133.8	128.3	128.3
45°	5505.8	4949.5	3421.0	1315.1	273.2	165.9	138.3	123.9	119.5	116.1	115.0
47.5°	5732.6	5122.0	3369.0	1007.6	194.7	153.7	129.4	113.9	108.4	110.6	109.5
50°	5885.2	5294.6	3227.4	791.9	185.8	142.7	119.5	104.0	101.8	106.2	105.1
52.5°	6050.0	5436.2	2952.0	616.1	172.5	131.6	109.5	97.3	92.9	96.2	97.3
55°	6180.5	5433.9	2749.6	481.1	163.7	122.8	102.9	91.8	84.1	84.1	83.0
57.5°	6244.7	5382.0	2587.0	378.3	153.7	113.9	96.2	80.7	71.9	69.7	68.6
60°	6241.3	5331.1	2397.9	310.8	143.8	104.0	86.3	68.6	59.7	55.3	55.3
62.5°	6206.0	5211.6	2098.1	267.7	133.8	96.2	71.9	56.4	49.8	45.3	46.5
65°	6115.3	4981.6	1729.8	227.8	123.9	92.9	60.8	49.8	43.1	38.7	38.7
67.5°	5801.1	4595.6	1349.4	191.3	113.9	77.4	53.1	42.0	36.5	32.1	32.1
70°	5356.5	4007.2	888.1	161.5	101.8	67.5	47.6	36.5	31.0	26.5	25.4
72.5°	4565.7	3202.0	451.3	138.3	87.4	59.7	42.0	32.1	26.5	22.1	21.0
75°	3501.7	2156.8	280.9	110.6	68.6	53.1	37.6	28.8	22.1	16.6	15.5
77.5°	2088.2	868.2	199.1	77.4	46.5	42.0	31.0	23.2	17.7	12.2	12.2
80°	659.2	383.8	134.9	53.1	29.9	28.8	23.2	16.6	12.2	8.8	8.8
82.5°	372.7	243.3	90.7	35.4	21.0	18.8	13.3	10.0	7.7	6.6	6.6
85°	61.9	48.7	27.7	13.3	10.0	8.8	5.5	3.3	2.2	1.1	2.2
87.5°	3.3	3.3	4.4	4.4	4.4	3.3	2.2	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)