

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: P509429

Luminaire Tested: **VERD-CA2-90-760-U-T2**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509429
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-90-760-U-T2
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 1250mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12836 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

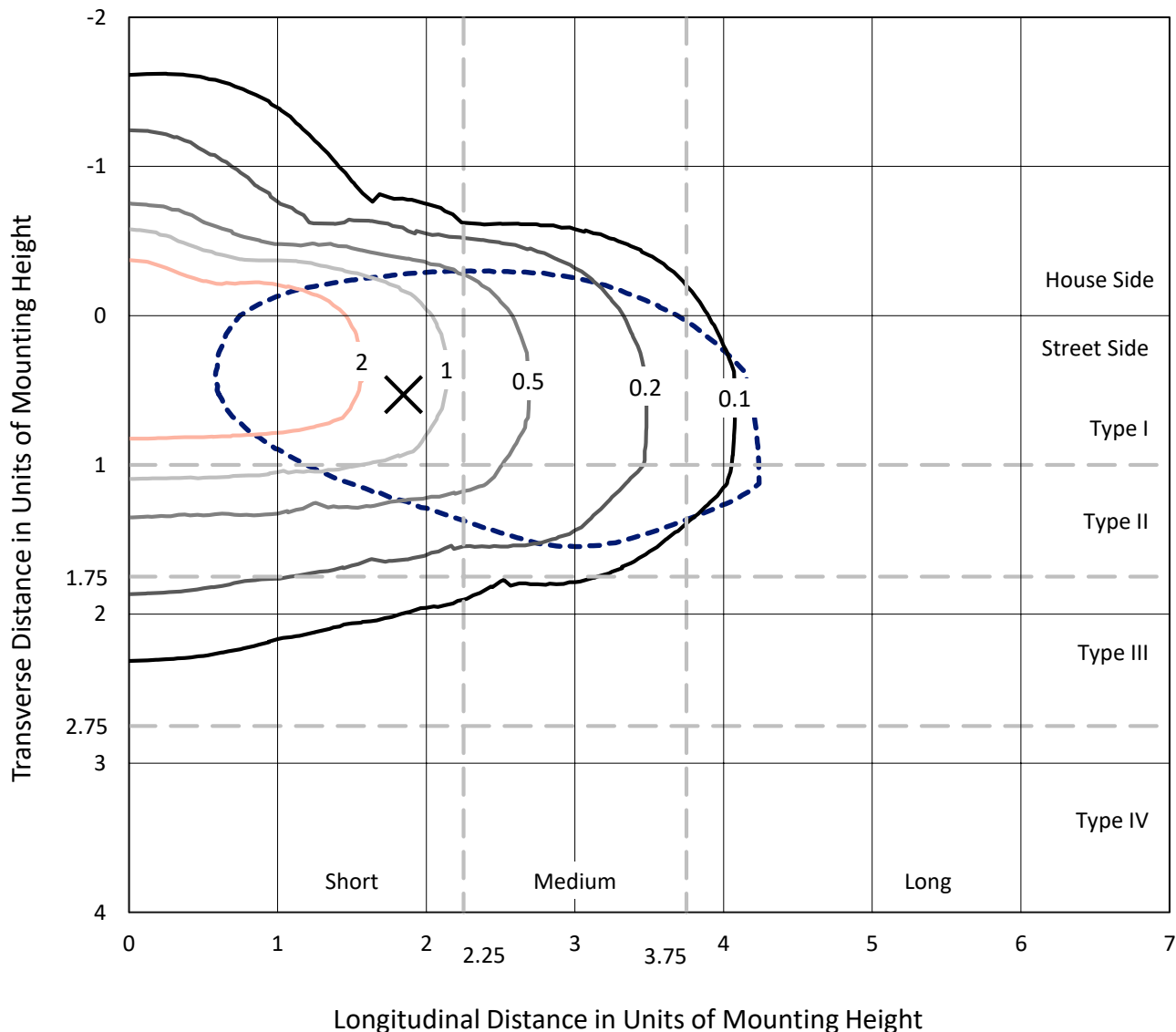
Input Watts (W): 94.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

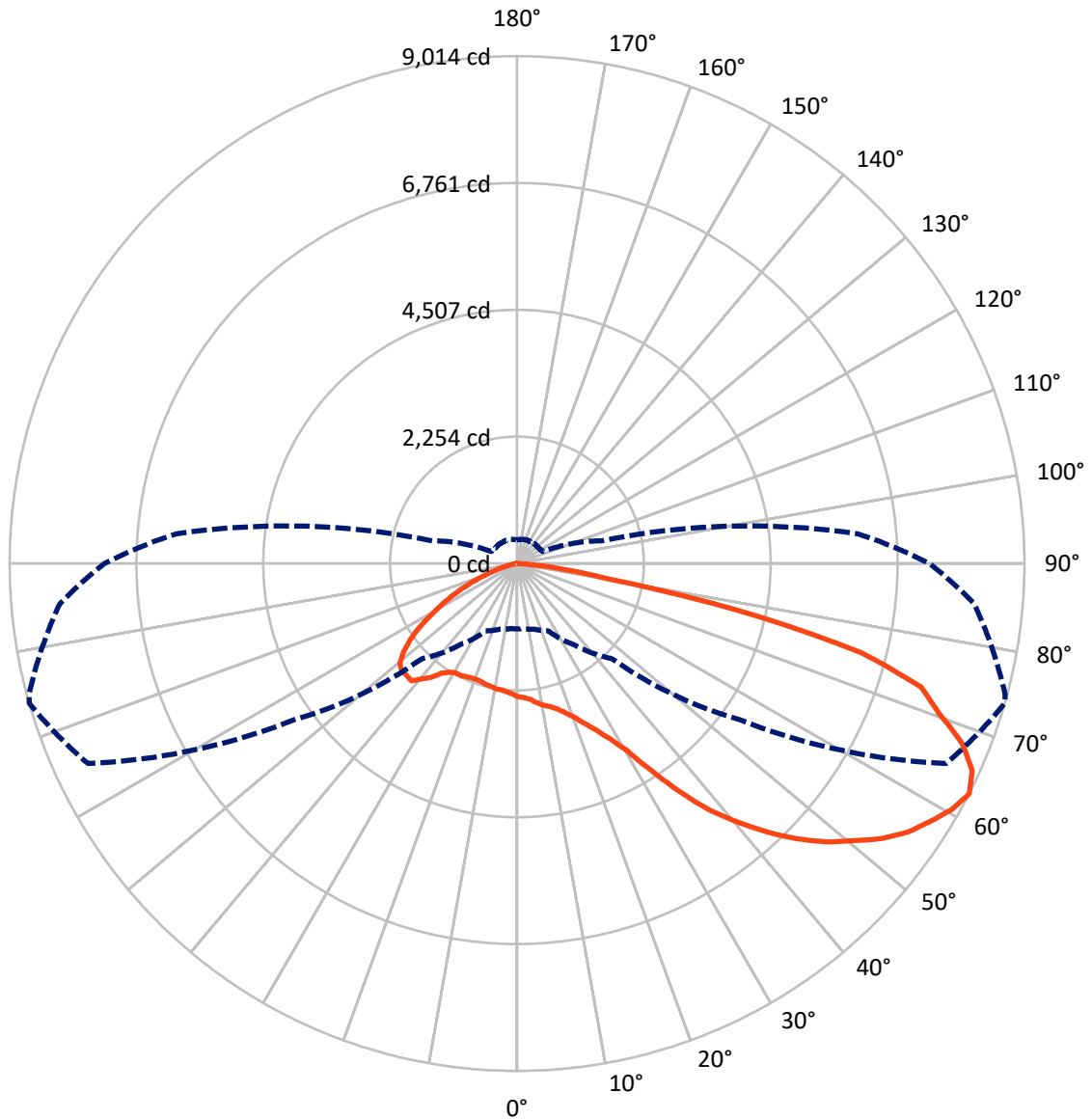
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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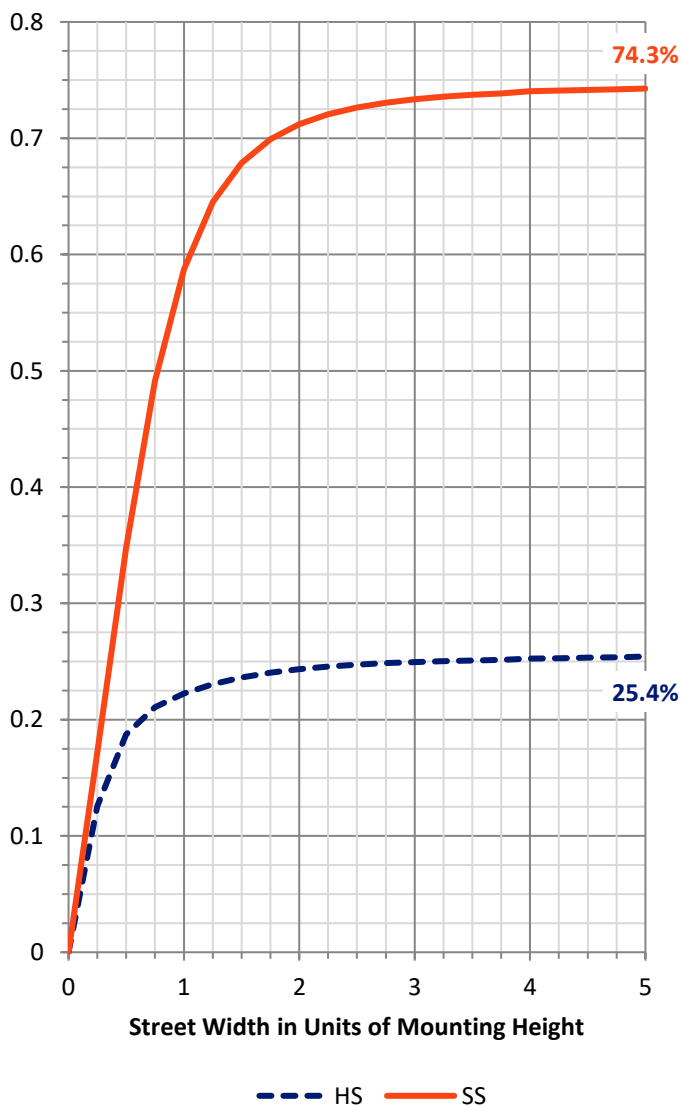
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3314.3	0.0	3314.3
	% Fixture	25.8	0.0	25.8
Street Side	Lumens	9521.7	0.0	9521.7
	% Fixture	74.2	0.0	74.2
Total	Lumens	12836.0	0.0	12836.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.5	1.8
10°-20°	693.4	5.4
20°-30°	1169.2	9.1
30°-40°	1708.3	13.3
40°-50°	2274.7	17.7
50°-60°	2617.7	20.4
60°-70°	2529.6	19.7
70°-80°	1456.2	11.3
80°-90°	159.3	1.2
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°	12836.0	100.0
0°-180°	12836.0	100.0

Coefficient of Utilization



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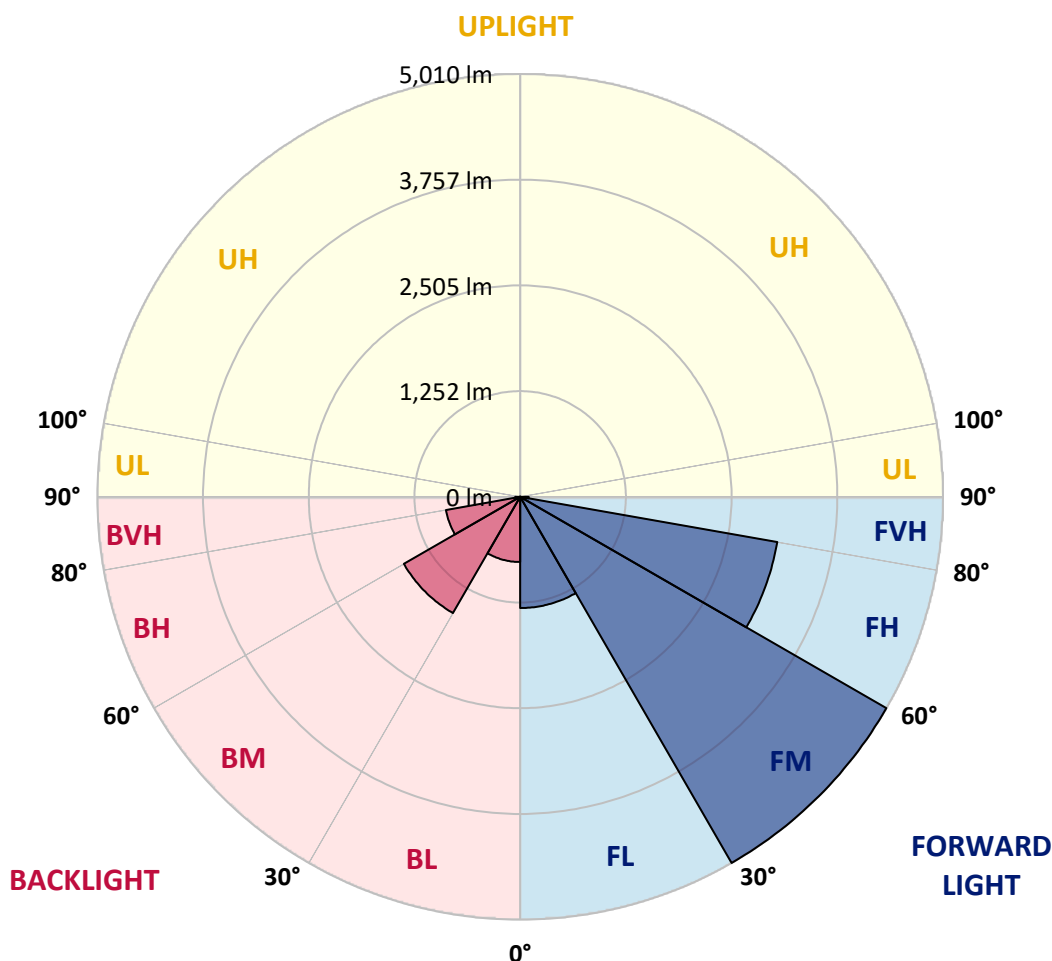
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1317.4	10.3			
FM (30°-60°)	5009.9	39.0			
FH (60°-80°)	3093.6	24.1			G2/5000
FVH (80°-90°)	100.8	0.8			G2/225
BL (0°-30°)	772.7	6.0	B2/1000		
BM (30°-60°)	1590.8	12.4	B2/2500		
BH (60°-80°)	892.2	7.0	B2/1000		G2/1000
BVH (80°-90°)	58.6	0.5			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2366.9	2366.9	2366.9	2366.9	2366.9	2366.9	2366.9	2366.9	2366.9	2366.9	2366.9
2.5°	2533.5	2515.3	2504.1	2491.5	2476.1	2470.5	2436.9	2407.5	2383.7	2385.1	2369.7
5°	2625.8	2606.2	2581.0	2576.8	2557.3	2553.1	2520.9	2474.7	2422.9	2415.9	2369.7
7.5°	2729.4	2718.2	2702.8	2683.2	2651.0	2630.0	2583.8	2547.5	2494.3	2487.3	2396.3
10°	2855.4	2847.0	2835.8	2835.8	2793.8	2749.0	2693.0	2602.0	2560.0	2553.1	2442.5
12.5°	3003.8	2978.6	2942.2	2921.2	2882.0	2854.0	2793.8	2697.2	2606.2	2603.4	2485.9
15°	3100.3	3079.3	3055.5	3047.1	2996.8	2950.6	2886.2	2809.2	2681.8	2672.0	2539.1
17.5°	3208.1	3188.5	3160.5	3145.1	3112.9	3059.7	3002.4	2901.6	2788.2	2778.4	2599.2
20°	3268.3	3247.3	3238.9	3241.7	3230.5	3203.9	3135.3	3044.3	2914.2	2901.6	2681.8
22.5°	3335.5	3321.5	3324.3	3345.3	3366.3	3356.5	3303.3	3202.5	3090.5	3070.9	2814.8
25°	3336.9	3325.7	3363.5	3444.7	3489.4	3511.8	3483.9	3401.3	3282.3	3264.1	2984.2
27.5°	3360.7	3343.9	3384.5	3469.9	3605.6	3651.8	3661.6	3630.8	3528.6	3506.2	3187.1
30°	3299.1	3287.9	3349.5	3497.8	3657.4	3811.4	3867.4	3915.0	3857.6	3859.0	3500.6
32.5°	3192.7	3173.1	3266.9	3448.9	3745.6	3955.5	4103.9	4295.7	4383.9	4375.5	4046.5
35°	2989.8	3001.0	3126.9	3405.5	3748.4	4102.5	4393.7	4736.6	4975.9	4970.3	4612.0
37.5°	2845.6	2840.0	2988.4	3283.7	3747.0	4232.7	4675.0	5246.1	5555.4	5547.0	5097.7
40°	2672.0	2673.4	2821.8	3132.5	3681.2	4313.9	4966.1	5729.0	6043.9	6031.3	5562.4
42.5°	2485.9	2491.5	2630.0	2947.8	3590.2	4375.5	5226.5	6217.5	6522.6	6533.8	5934.7
45°	2319.3	2322.1	2459.3	2750.4	3429.3	4382.5	5460.2	6679.4	6976.1	6949.5	6325.2
47.5°	2074.4	2077.2	2280.1	2562.8	3216.5	4325.1	5653.4	7118.9	7390.4	7334.4	6655.6
50°	1625.1	1630.6	1871.4	2368.3	2957.6	4193.5	5806.0	7531.8	7741.7	7717.9	6994.3
52.5°	1500.5	1496.3	1597.1	2135.9	2725.2	3955.5	5902.5	7902.7	8115.5	8112.7	7274.2
55°	1437.5	1433.3	1466.9	1731.4	2497.1	3602.8	5899.7	8191.0	8424.8	8367.4	7530.4
57.5°	1325.5	1317.1	1403.9	1534.1	2242.3	3163.3	5759.8	8450.0	8648.7	8631.9	7761.3
60°	1245.7	1238.7	1297.5	1417.9	1970.8	2716.8	5400.0	8584.4	8874.1	8881.1	7955.9
62.5°	1163.1	1159.0	1209.3	1321.3	1758.0	2390.7	4845.8	8408.0	9014.1	8976.3	8150.4
65°	1069.4	1066.6	1114.2	1205.1	1546.7	2142.9	4302.7	8093.1	8888.1	8931.5	8175.6
67.5°	957.4	956.0	1002.2	1065.2	1315.7	1893.8	3471.3	7722.1	8528.4	8480.8	7852.3
70°	820.2	814.6	872.0	930.8	1101.6	1611.1	2701.4	7062.9	7943.3	8115.5	7208.5
72.5°	690.1	687.3	741.8	785.2	912.6	1315.7	1970.8	6108.3	7505.2	7257.4	6494.6
75°	540.3	526.3	583.7	624.3	719.4	1047.0	1343.7	4080.1	6316.8	6265.1	5456.0
77.5°	218.4	253.3	302.3	338.7	401.7	593.5	702.6	1935.8	4029.7	4207.5	3794.6
80°	84.0	89.6	215.6	243.5	270.1	341.5	270.1	816.0	1590.1	1734.2	2197.5
82.5°	47.6	53.2	106.4	102.2	100.8	86.8	100.8	400.3	830.0	909.8	1061.0
85°	26.6	29.4	43.4	47.6	40.6	35.0	30.8	105.0	207.2	196.0	219.8
87.5°	4.2	5.6	7.0	7.0	4.2	4.2	4.2	5.6	5.6	5.6	7.0
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°	2366.9	2366.9	2366.9	2366.9	2366.9	2366.9	2366.9	2366.9	2366.9	2366.9	2366.9
2.5°	2354.3	2338.9	2323.5	2305.3	2282.9	2268.9	2263.3	2270.3	2289.9	2266.1	2246.5
5°	2345.9	2324.9	2289.9	2254.9	2226.9	2203.1	2170.9	2168.1	2173.7	2163.9	2138.7
7.5°	2364.1	2333.3	2261.9	2238.1	2179.3	2123.3	2105.1	2098.1	2081.4	2061.8	2038.0
10°	2400.5	2337.5	2264.7	2194.7	2140.1	2080.0	2010.0	2011.4	2004.4	1982.0	1959.6
12.5°	2418.7	2344.5	2238.1	2163.9	2080.0	2005.8	1937.2	1906.4	1919.0	1900.8	1877.0
15°	2452.3	2373.9	2228.3	2119.1	2004.4	1920.4	1868.6	1823.8	1795.8	1800.0	1786.0
17.5°	2515.3	2400.5	2203.1	2070.2	1945.6	1846.2	1746.8	1742.6	1700.6	1676.8	1655.8
20°	2581.0	2448.1	2200.3	2017.0	1850.4	1727.2	1647.4	1602.7	1577.5	1557.9	1542.5
22.5°	2666.4	2513.9	2210.1	1986.2	1765.0	1626.5	1524.3	1464.1	1423.5	1409.5	1398.3
25°	2786.8	2596.4	2236.7	1931.6	1675.4	1515.9	1377.3	1314.3	1268.1	1256.9	1248.5
27.5°	2952.0	2701.4	2263.3	1872.8	1570.5	1360.5	1213.5	1152.0	1100.2	1098.8	1083.4
30°	3212.3	2862.4	2273.1	1821.0	1458.5	1193.9	1047.0	989.6	950.4	935.0	946.2
32.5°	3698.0	3217.9	2334.7	1741.2	1317.1	1031.6	907.0	860.8	817.4	800.6	811.8
35°	4222.9	3643.4	2438.3	1686.6	1161.8	877.6	792.2	737.6	684.5	676.1	671.9
37.5°	4607.8	4031.1	2634.2	1597.1	1014.8	783.8	671.9	627.1	596.3	579.5	594.9
40°	5044.5	4353.1	2782.6	1501.9	865.0	684.5	559.9	545.9	531.9	520.7	537.5
42.5°	5390.2	4684.8	2959.0	1375.9	744.6	580.9	498.3	509.5	516.5	510.9	512.3
45°	5708.0	4931.1	2970.2	1184.1	635.5	503.9	480.1	502.5	519.3	516.5	515.1
47.5°	6018.7	5225.1	2996.8	981.2	557.1	484.3	481.5	498.3	520.7	524.9	524.9
50°	6339.2	5449.0	2956.2	789.4	527.7	487.1	485.7	484.3	512.3	513.7	517.9
52.5°	6580.0	5631.0	2764.4	652.3	526.3	495.5	492.7	478.7	491.3	501.1	494.1
55°	6834.7	5857.7	2522.3	600.5	523.5	498.3	509.5	485.7	477.3	468.9	477.3
57.5°	7076.9	6015.9	2204.5	569.7	512.3	494.1	516.5	484.3	466.1	442.3	433.9
60°	7263.0	6052.3	1850.4	537.5	498.3	484.3	485.7	474.5	450.7	421.3	408.7
62.5°	7326.0	6073.3	1556.5	506.7	470.3	468.9	457.7	453.5	443.7	425.5	419.9
65°	7272.8	5835.3	1242.9	468.9	446.5	447.9	431.1	417.1	394.7	365.3	362.5
67.5°	6907.5	5416.8	953.2	421.3	410.1	424.1	405.9	382.1	356.9	337.3	340.1
70°	6281.8	4921.3	669.1	355.5	368.1	393.3	386.3	355.5	327.5	310.7	313.5
72.5°	5586.2	4169.7	454.9	277.1	299.5	352.7	352.7	331.7	303.7	281.3	275.7
75°	4406.3	3275.3	293.9	183.4	197.4	288.3	312.1	279.9	249.1	235.1	229.6
77.5°	2991.2	2133.1	187.6	105.0	131.6	189.0	246.3	250.5	295.3	296.7	284.1
80°	1758.0	1220.5	114.8	61.6	65.8	109.2	197.4	247.7	313.5	221.2	203.0
82.5°	874.8	520.7	51.8	37.8	39.2	54.6	106.4	284.1	242.1	138.6	133.0
85°	194.6	85.4	21.0	19.6	22.4	28.0	54.6	235.1	148.4	112.0	109.2
87.5°	7.0	5.6	5.6	5.6	4.2	4.2	11.2	77.0	58.8	49.0	46.2
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)