

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: P509476

Luminaire Tested: **VERD-G-CA2-100-760-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-100-760-U-T2-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 930mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13836 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

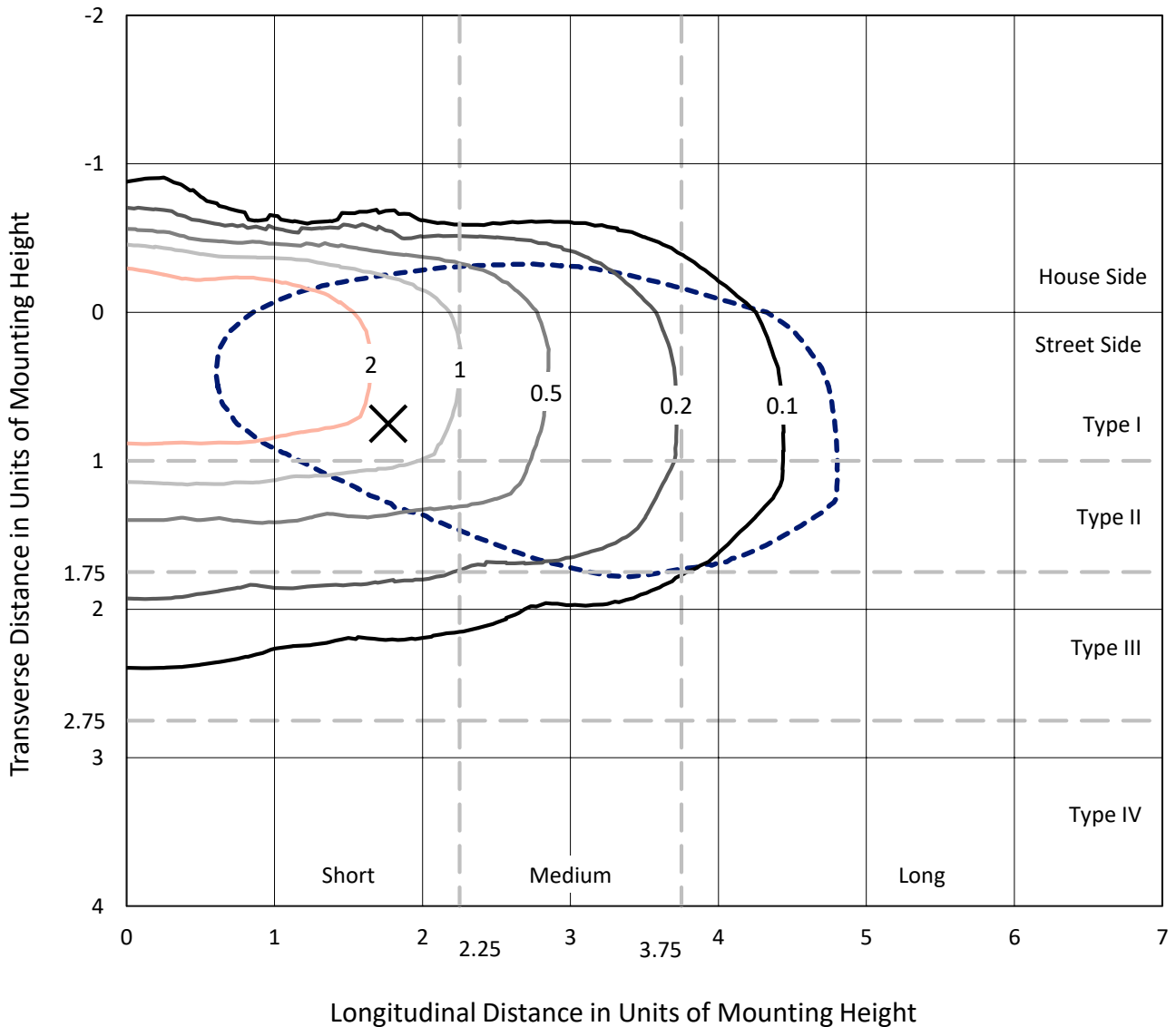
Input Watts (W): 102.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

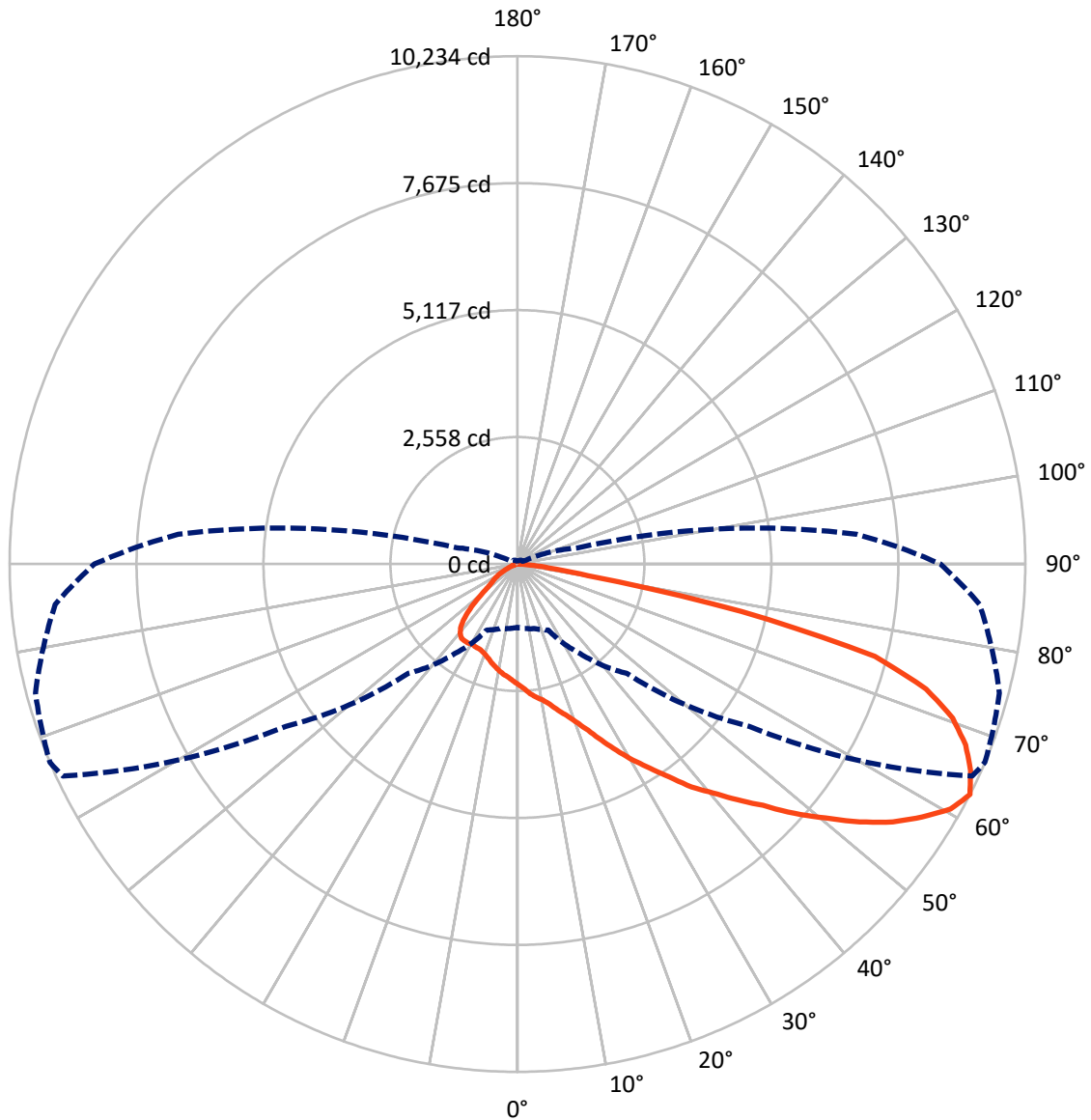
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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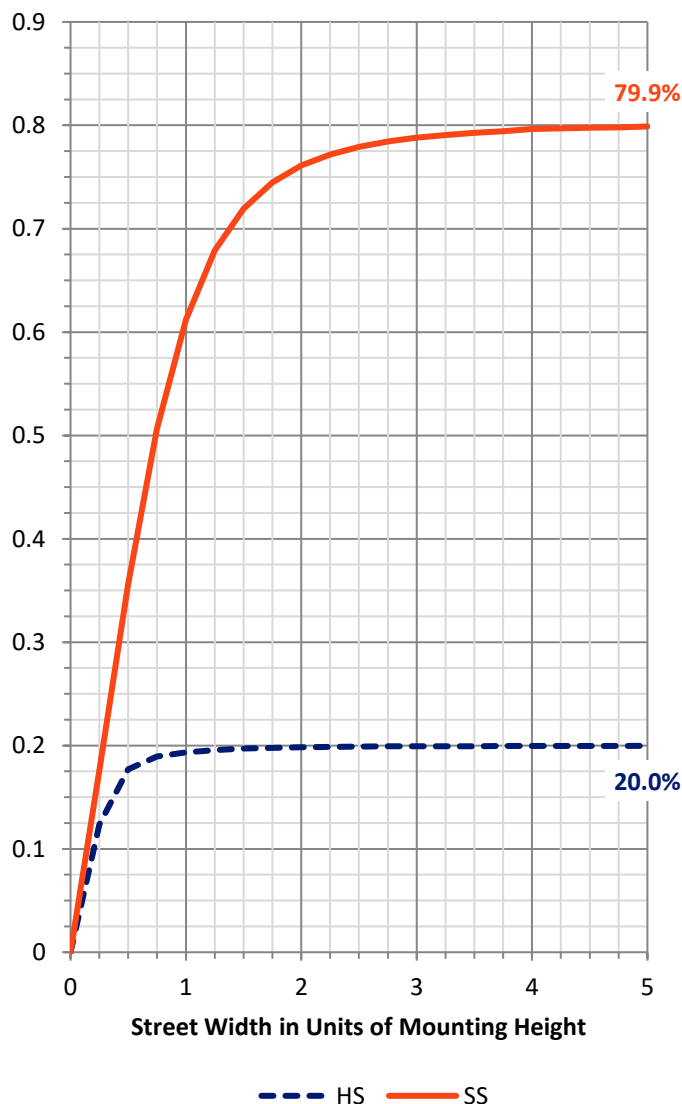
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2796.0	0.0	2796.0
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	11040.1	0.0	11040.1
	% Fixture	79.8	0.0	79.8
Total	Lumens	13836.0	0.0	13836.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.9	1.7
10°-20°	708.5	5.1
20°-30°	1208.5	8.7
30°-40°	1770.4	12.8
40°-50°	2336.4	16.9
50°-60°	2749.6	19.9
60°-70°	2827.9	20.4
70°-80°	1832.2	13.2
80°-90°	167.7	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°	13836.0	100.0
0°-180°	13836.0	100.0

Coefficient of Utilization



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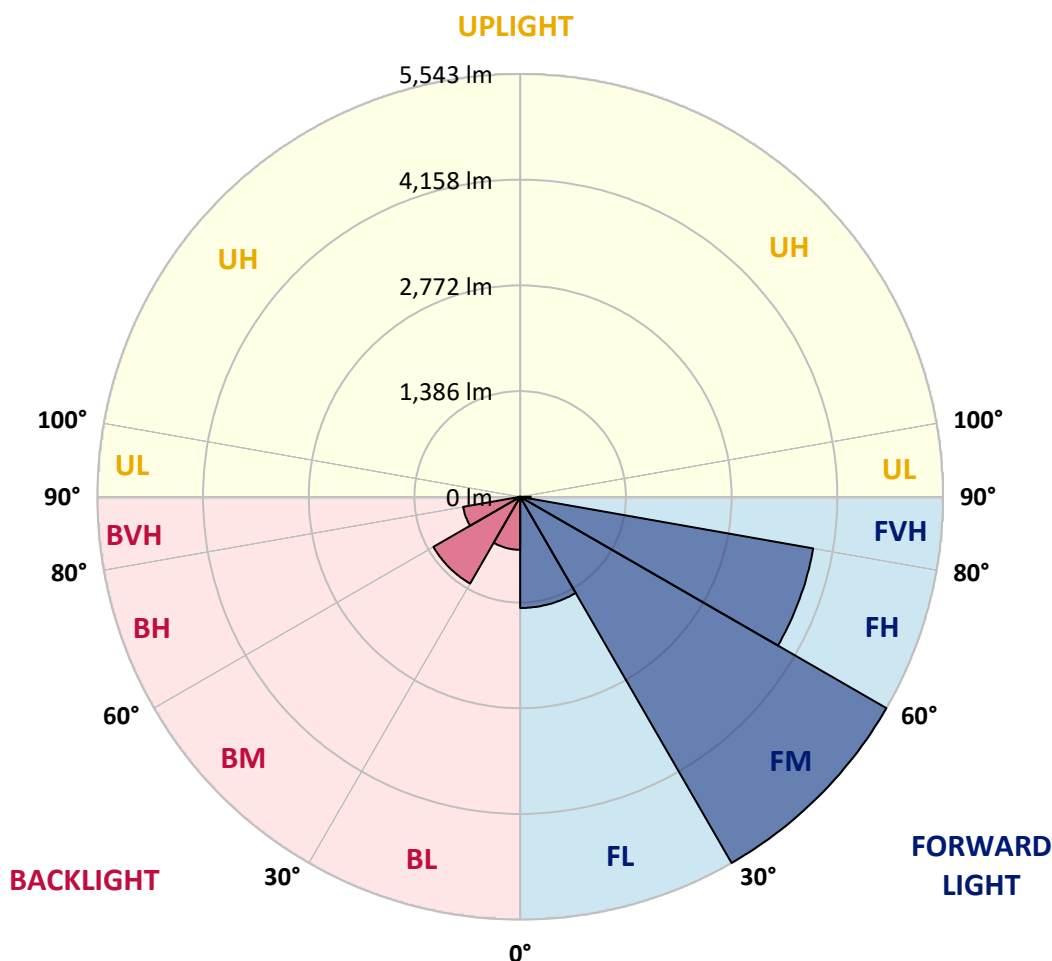
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1456.9	10.5			
FM (30°-60°)	5543.4	40.1			
FH (60°-80°)	3901.0	28.2			G2/5000
FVH (80°-90°)	138.7	1.0			G2/225
BL (0°-30°)	694.9	5.0	B2/1000		
BM (30°-60°)	1313.0	9.5	B2/2500		
BH (60°-80°)	759.1	5.5	B2/1000		G2/1000
BVH (80°-90°)	29.0	0.2			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°	67°	75°	85°
0°	2431.1	2431.1	2431.1	2431.1	2431.1	2431.1	2431.1	2431.1	2431.1	2431.1	2431.1
2.5°	2696.2	2693.2	2664.3	2637.4	2619.5	2618.5	2571.6	2529.8	2510.8	2488.9	2440.1
5°	2835.8	2859.7	2827.8	2787.9	2756.0	2732.1	2691.2	2643.4	2623.5	2571.6	2497.9
7.5°	3038.1	3038.1	3008.2	2974.3	2937.4	2873.6	2803.9	2720.1	2710.2	2652.4	2555.7
10°	3135.8	3159.7	3120.8	3081.0	3040.1	3007.2	2912.5	2809.9	2784.9	2698.2	2578.6
12.5°	3272.3	3272.3	3251.4	3217.5	3170.7	3104.9	3044.1	2940.4	2898.6	2769.0	2619.5
15°	3400.9	3390.0	3372.0	3316.2	3292.3	3251.4	3171.7	3063.0	3055.1	2911.5	2682.3
17.5°	3501.6	3483.7	3466.7	3436.8	3407.9	3392.0	3335.1	3240.4	3207.6	3076.0	2800.9
20°	3553.4	3568.4	3527.5	3526.5	3535.5	3523.5	3485.7	3414.9	3400.9	3244.4	2921.5
22.5°	3612.2	3632.2	3622.2	3632.2	3659.1	3679.0	3677.0	3662.1	3640.1	3469.7	3115.9
25°	3625.2	3612.2	3654.1	3746.8	3814.6	3862.4	3956.1	3937.2	3931.2	3780.7	3380.0
27.5°	3585.3	3597.3	3663.1	3796.6	3971.1	4101.6	4178.4	4273.1	4252.2	4135.5	3698.0
30°	3561.4	3582.3	3669.1	3825.5	4059.8	4296.0	4447.5	4565.1	4583.1	4490.4	4010.9
32.5°	3478.7	3506.6	3596.3	3848.5	4146.5	4504.3	4692.7	4912.0	4904.0	4866.2	4391.7
35°	3351.1	3388.0	3525.5	3818.6	4244.2	4691.7	4941.9	5260.9	5266.9	5282.8	4753.5
37.5°	3248.4	3260.4	3416.9	3729.9	4283.1	4843.2	5174.2	5605.7	5702.4	5679.5	5164.2
40°	3084.0	3119.8	3289.3	3621.2	4279.1	4945.9	5410.4	6009.4	6061.3	6133.0	5593.8
42.5°	2881.6	2920.5	3083.0	3473.7	4223.2	5035.6	5637.6	6421.1	6493.9	6606.5	5987.5
45°	2687.3	2704.2	2856.7	3258.4	4114.6	5106.4	5858.9	6826.8	6938.4	7099.9	6384.2
47.5°	2445.0	2490.9	2661.3	3033.1	3874.4	5132.3	6022.4	7305.2	7510.5	7609.2	6836.7
50°	1880.9	1909.8	2388.2	2834.8	3613.2	5051.6	6234.7	7912.2	8041.8	8144.5	7295.2
52.5°	1657.6	1683.5	1868.9	2605.5	3322.2	4842.2	6364.3	8476.4	8632.9	8611.0	7755.7
55°	1563.9	1576.9	1656.6	2126.1	3057.0	4453.5	6455.0	9092.4	9177.1	9035.6	8212.3
57.5°	1455.3	1470.2	1530.0	1782.2	2758.0	3961.1	6379.2	9585.8	9617.7	9442.3	8618.9
60°	1358.6	1368.5	1458.3	1594.8	2433.1	3483.7	6187.9	9940.6	10029.3	9741.3	9057.5
62.5°	1275.8	1299.8	1346.6	1467.2	2205.8	3113.9	5703.4	10108.1	10233.7	10054.3	9348.6
65°	1194.1	1205.1	1258.9	1365.6	1961.6	2895.6	5426.3	9887.8	10034.3	10096.1	9528.0
67.5°	1082.5	1098.4	1151.3	1228.0	1636.7	2683.3	4779.4	9530.0	9739.3	9875.8	9421.3
70°	951.9	965.9	1019.7	1083.5	1366.6	2370.3	4033.9	9165.2	9302.7	9311.7	8944.9
72.5°	800.4	813.4	867.2	931.0	1134.3	1973.6	3161.7	8301.0	8609.0	8804.3	8145.5
75°	509.3	565.2	698.7	770.5	934.0	1596.8	2255.7	6627.4	7436.8	7995.0	7049.0
77.5°	82.7	92.7	274.1	390.7	543.2	1082.5	1252.9	3672.0	4619.0	6681.2	5691.5
80°	62.8	70.8	99.7	265.1	348.9	673.8	493.4	1192.1	1437.3	3123.8	3188.6
82.5°	26.9	31.9	59.8	148.5	164.5	179.4	132.6	533.3	630.9	949.9	1106.4
85°	9.0	12.0	27.9	46.8	51.8	39.9	28.9	211.3	260.2	455.5	421.6
87.5°	0.0	1.0	6.0	7.0	6.0	4.0	3.0	2.0	2.0	3.0	3.0
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°	2431.1	2431.1	2431.1	2431.1	2431.1	2431.1	2431.1	2431.1	2431.1	2431.1	2431.1
2.5°	2430.1	2396.2	2392.2	2351.3	2314.5	2272.6	2246.7	2237.7	2249.7	2261.6	2273.6
5°	2460.0	2408.2	2356.3	2271.6	2233.7	2187.9	2127.1	2090.2	2073.2	2088.2	2093.2
7.5°	2481.9	2415.1	2335.4	2219.8	2138.0	2050.3	1992.5	1930.7	1896.8	1902.8	1907.8
10°	2485.9	2412.1	2276.6	2165.0	2033.4	1912.8	1837.0	1808.1	1785.2	1765.3	1768.2
12.5°	2522.8	2414.1	2226.7	2091.2	1952.6	1797.1	1712.4	1675.5	1671.6	1630.7	1626.7
15°	2572.6	2458.0	2200.8	2024.4	1847.0	1700.5	1599.8	1534.0	1536.0	1515.1	1512.1
17.5°	2653.4	2500.9	2181.9	1946.7	1736.3	1601.8	1474.2	1414.4	1395.5	1389.5	1384.5
20°	2744.1	2563.7	2159.0	1877.9	1639.7	1483.2	1340.6	1279.8	1227.0	1211.1	1213.1
22.5°	2877.6	2646.4	2177.9	1826.1	1532.0	1367.5	1226.0	1107.4	1016.7	992.8	989.8
25°	3113.9	2809.9	2234.7	1781.2	1465.2	1254.9	1064.5	898.1	778.5	752.5	754.5
27.5°	3377.0	3025.2	2313.5	1762.3	1380.5	1130.3	868.2	682.8	571.1	541.2	543.2
30°	3689.0	3281.3	2433.1	1709.4	1289.8	948.9	646.9	500.4	413.7	378.8	380.8
32.5°	3989.0	3537.5	2586.6	1701.5	1176.2	712.7	467.5	363.8	293.0	267.1	270.1
35°	4319.9	3830.5	2748.1	1661.6	989.8	511.3	327.9	252.2	214.3	206.3	205.3
37.5°	4694.7	4091.7	2867.7	1624.7	740.6	359.8	224.3	194.4	189.4	178.4	178.4
40°	5042.6	4363.8	2957.4	1527.0	518.3	244.2	175.4	176.4	171.4	156.5	153.5
42.5°	5363.5	4644.9	3040.1	1370.5	350.9	166.5	157.5	160.5	162.5	145.5	141.5
45°	5727.4	4991.7	3022.2	1135.3	223.3	150.5	141.5	150.5	160.5	143.5	139.5
47.5°	6126.1	5245.9	3060.0	819.3	157.5	142.5	131.6	143.5	151.5	140.5	134.6
50°	6576.6	5578.8	2945.4	476.4	144.5	134.6	126.6	131.6	143.5	137.6	130.6
52.5°	6989.2	5875.9	2788.9	233.2	136.6	126.6	118.6	122.6	134.6	127.6	129.6
55°	7337.1	6184.9	2471.0	166.5	131.6	117.6	114.6	115.6	122.6	113.6	119.6
57.5°	7763.7	6439.0	2148.0	155.5	127.6	111.6	112.6	104.7	106.7	101.7	95.7
60°	8143.5	6679.3	1709.4	143.5	121.6	114.6	101.7	90.7	84.7	81.7	80.7
62.5°	8523.2	6861.7	1259.9	130.6	115.6	103.7	89.7	77.7	67.8	63.8	62.8
65°	8666.8	6959.3	860.2	119.6	108.6	94.7	79.7	62.8	51.8	47.8	44.9
67.5°	8560.1	6653.3	498.4	107.6	104.7	86.7	69.8	50.8	39.9	36.9	34.9
70°	8065.7	6172.9	266.1	97.7	91.7	76.8	61.8	41.9	31.9	27.9	26.9
72.5°	7215.5	5308.7	139.5	81.7	76.8	62.8	48.8	34.9	25.9	20.9	19.9
75°	6127.1	4167.4	97.7	59.8	52.8	48.8	36.9	27.9	20.9	15.9	15.0
77.5°	4836.3	2708.2	73.8	38.9	30.9	31.9	26.9	22.9	16.9	12.0	12.0
80°	2497.9	1407.4	55.8	25.9	17.9	18.9	18.9	16.9	13.0	9.0	9.0
82.5°	990.8	518.3	38.9	15.0	11.0	12.0	11.0	11.0	9.0	6.0	6.0
85°	326.9	113.6	14.0	9.0	7.0	7.0	6.0	5.0	3.0	2.0	2.0
87.5°	3.0	3.0	4.0	5.0	5.0	4.0	3.0	1.0	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)