

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: P509984

Luminaire Tested: **VERD-M-CA3-180-730-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509984
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-7)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA3-180-730-U-T4-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1120mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22532 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

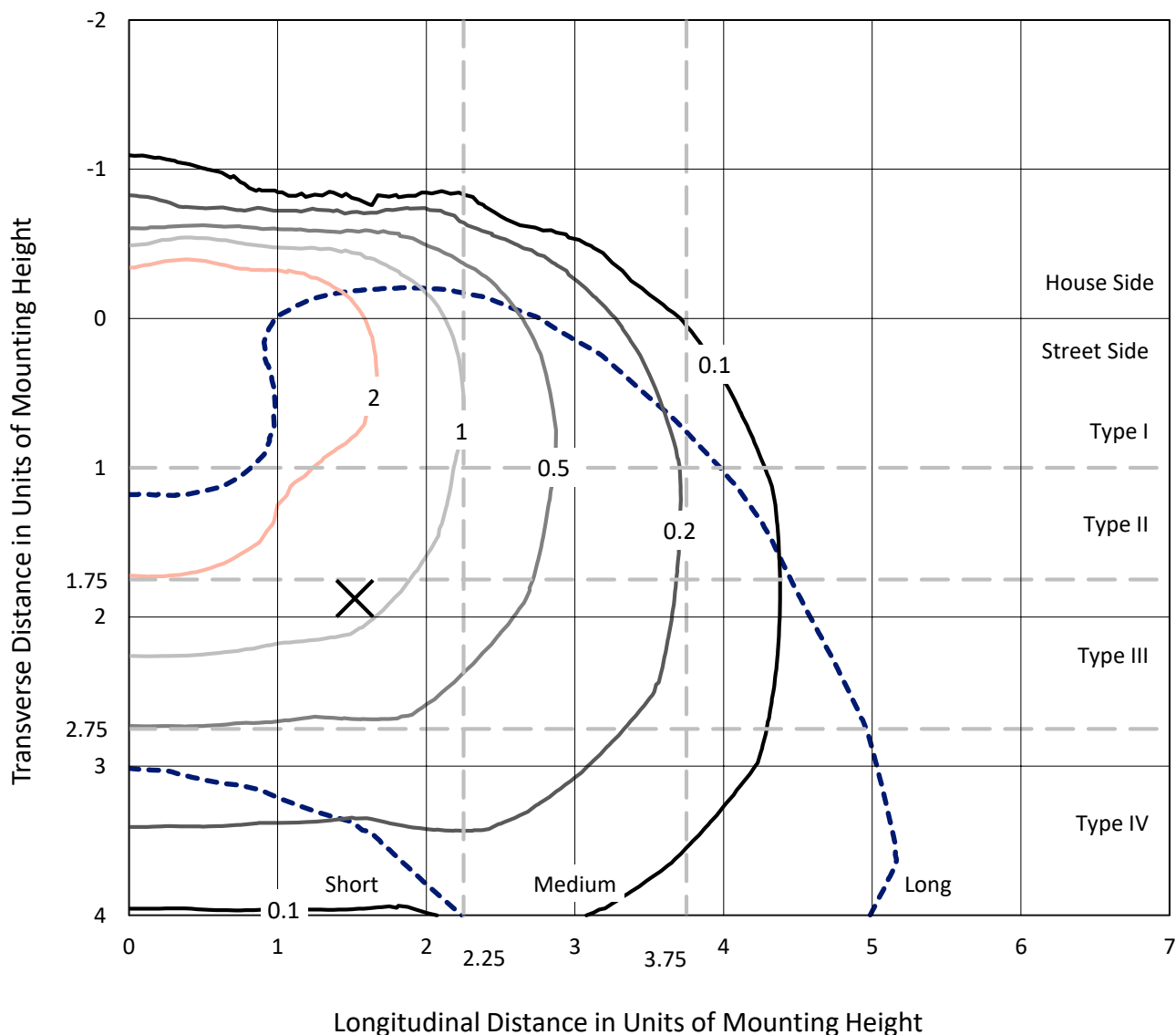
Input Watts (W): 183.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

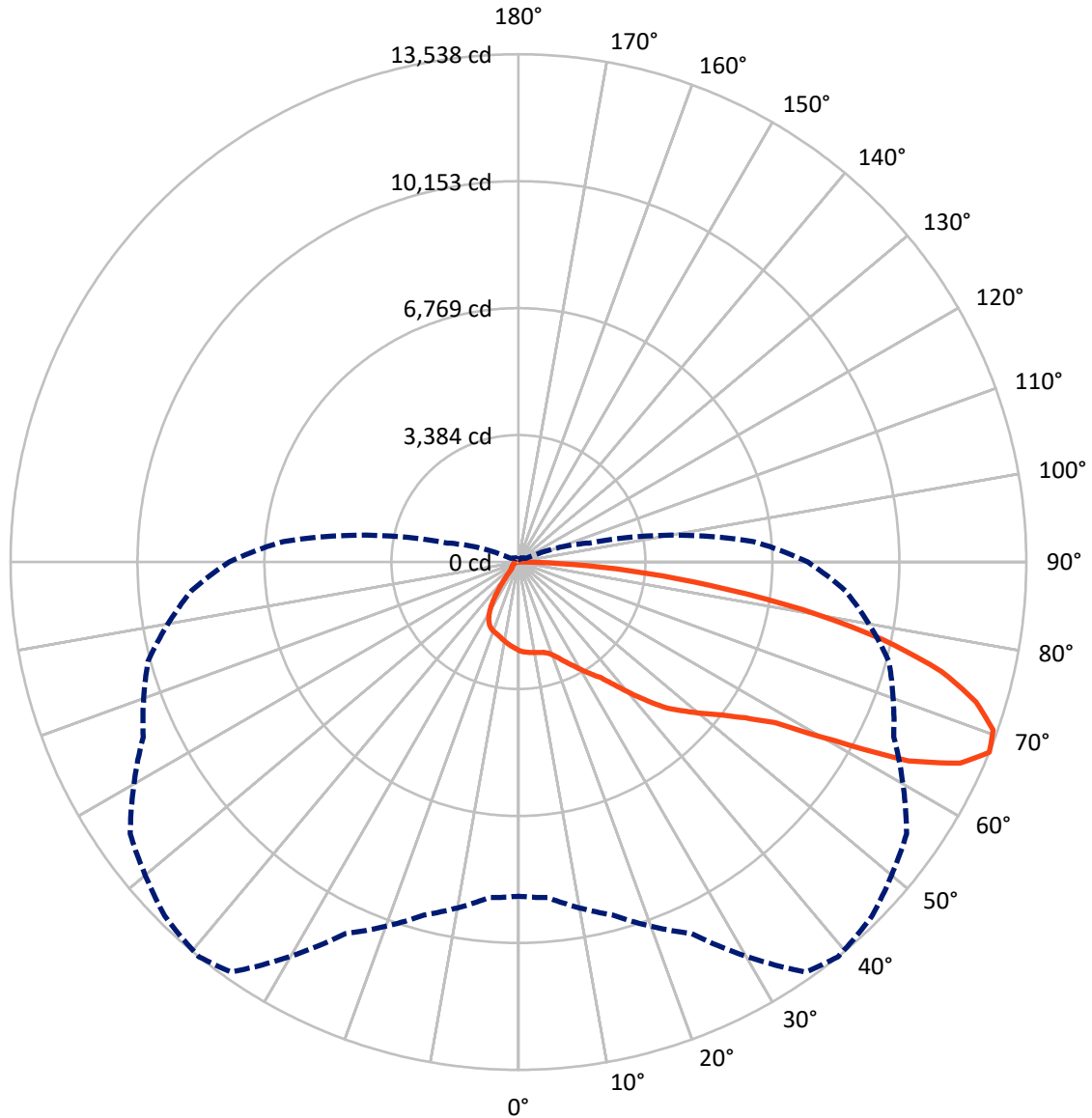
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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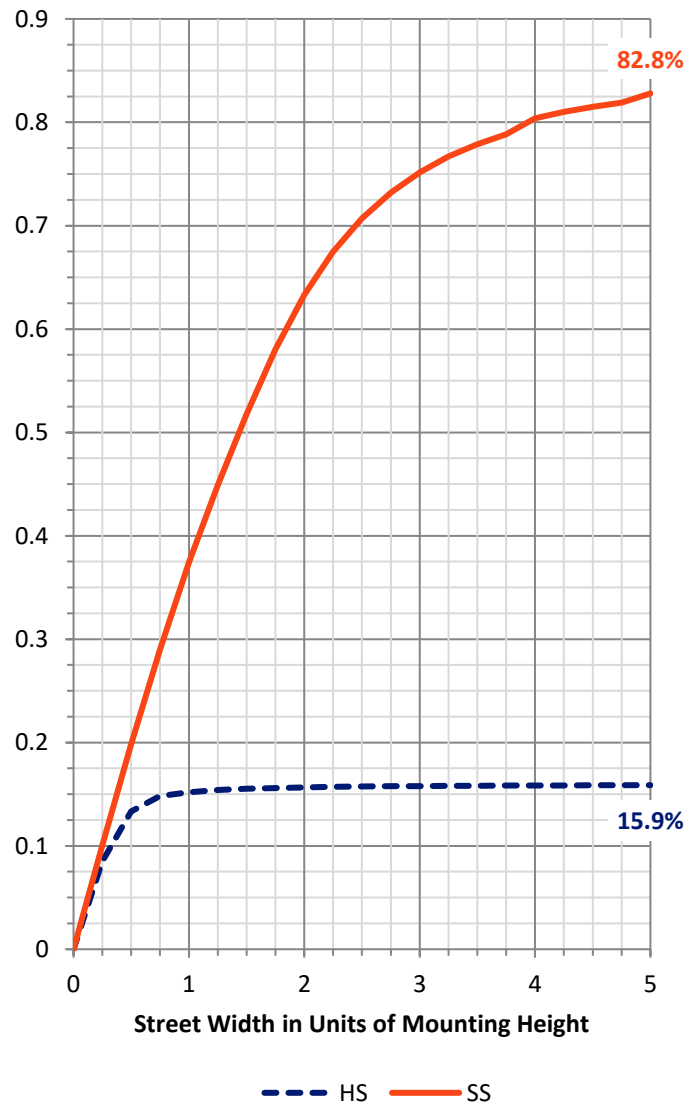
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3618.1	0.0	3618.1
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	18913.9	0.0	18913.9
	% Fixture	83.9	0.0	83.9
Total	Lumens	22532.0	0.0	22532.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.7	1.0
10°-20°	662.9	2.9
20°-30°	1174.5	5.2
30°-40°	1881.2	8.3
40°-50°	3017.8	13.4
50°-60°	4411.1	19.6
60°-70°	5878.1	26.1
70°-80°	4411.0	19.6
80°-90°	872.7	3.9
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°	22532.0	100.0
0°-180°	22532.0	100.0



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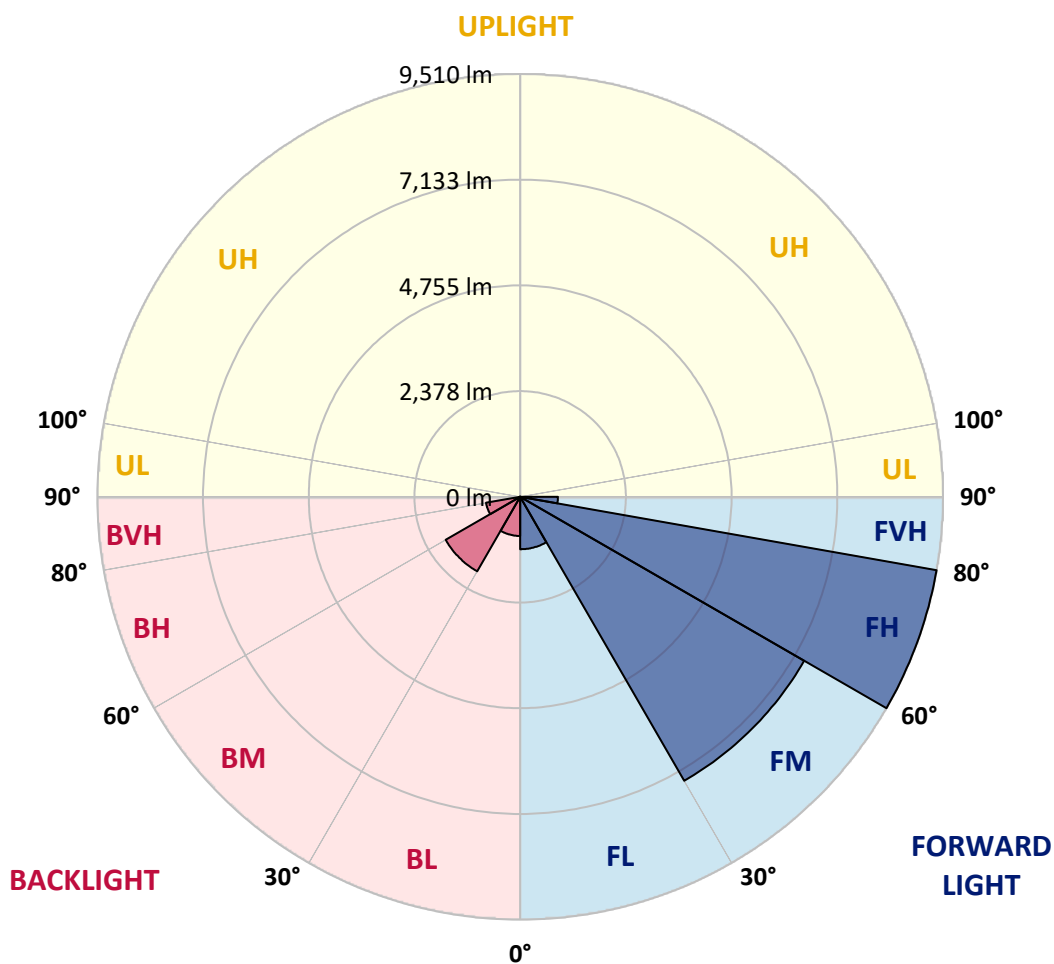
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1179.1	5.2			
FM (30°-60°)	7374.9	32.7			
FH (60°-80°)	9510.0	42.2			G4/12000
FVH (80°-90°)	849.9	3.8			G5
BL (0°-30°)	881.0	3.9	B2/1000		
BM (30°-60°)	1935.1	8.6	B2/2500		
BH (60°-80°)	779.0	3.5	B2/1000		G2/1000
BVH (80°-90°)	22.9	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2359.3	2359.3	2359.3	2359.3	2359.3	2359.3	2359.3	2359.3	2359.3	2359.3	2359.3
2.5°	2361.6	2393.3	2393.3	2384.2	2389.9	2394.4	2360.5	2369.5	2366.1	2365.0	2371.8
5°	2379.7	2414.8	2412.6	2401.2	2405.8	2414.8	2383.1	2396.7	2392.2	2380.9	2383.1
7.5°	2379.7	2409.2	2415.9	2403.5	2425.0	2436.3	2402.4	2414.8	2420.5	2412.6	2404.6
10°	2370.7	2396.7	2405.8	2403.5	2431.8	2449.9	2417.1	2452.2	2456.7	2456.7	2444.3
12.5°	2367.3	2396.7	2409.2	2419.3	2452.2	2471.4	2452.2	2486.1	2508.8	2507.6	2499.7
15°	2369.5	2402.4	2421.6	2438.6	2473.7	2497.5	2489.5	2541.6	2568.8	2576.7	2576.7
17.5°	2426.1	2465.8	2474.8	2492.9	2516.7	2552.9	2542.7	2609.5	2652.6	2666.1	2685.4
20°	2584.6	2615.2	2626.5	2617.5	2627.7	2650.3	2629.9	2694.4	2759.0	2795.2	2826.9
22.5°	2787.3	2809.9	2799.7	2790.7	2785.0	2790.7	2765.8	2808.8	2881.2	2933.3	2987.7
25°	2941.3	2991.1	2983.1	2958.2	2950.3	2957.1	2925.4	2978.6	3045.4	3099.7	3181.3
27.5°	3128.1	3158.6	3137.1	3128.1	3133.7	3132.6	3113.3	3164.3	3225.4	3293.3	3413.3
30°	3330.7	3356.7	3335.2	3326.2	3336.4	3343.2	3321.6	3411.1	3475.6	3549.2	3704.3
32.5°	3663.5	3725.8	3666.9	3549.2	3551.5	3561.7	3563.9	3683.9	3801.7	3859.4	4064.3
35°	4137.9	4187.7	4109.6	3967.0	3789.2	3782.4	3800.5	3979.4	4216.0	4478.7	4718.7
37.5°	4580.6	4653.0	4582.8	4416.4	4200.2	4148.1	4054.1	4267.0	4639.4	5204.4	5503.2
40°	5111.5	5165.9	5026.6	4881.7	4665.5	4591.9	4441.3	4577.2	5087.8	5961.8	6167.8
42.5°	5538.3	5571.2	5455.7	5304.0	5116.1	5060.6	4905.5	4917.9	5566.6	6625.2	6757.6
45°	5933.4	5968.5	5873.4	5744.4	5625.5	5558.7	5445.5	5506.6	6128.2	7324.8	7244.4
47.5°	6233.5	6268.6	6192.7	6101.0	5977.6	5932.3	5934.6	6154.2	6815.4	7884.1	7681.4
50°	6724.8	6711.2	6513.1	6413.5	6317.2	6341.0	6365.9	6678.4	7508.2	8364.1	8085.6
52.5°	7581.8	7515.0	7106.3	6845.9	6727.1	6767.8	6808.6	7224.1	8295.1	8802.2	8395.8
55°	8550.9	8483.0	8135.4	7578.4	7263.7	7329.4	7294.3	7764.1	8956.2	9223.4	8651.7
57.5°	9270.9	9383.0	9250.6	8947.2	8159.2	8073.2	7995.0	8309.8	9490.6	9644.5	8897.3
60°	9897.0	10053.2	10289.9	10207.2	9872.1	9647.9	8931.3	8947.2	10004.6	9936.6	8994.7
62.5°	10508.4	10600.1	11005.4	11094.8	11510.3	11671.0	10943.1	9771.3	10501.6	10139.3	9060.4
65°	9897.0	10014.7	10720.1	11371.0	12713.7	12928.8	12673.0	11263.5	10867.2	10259.3	8984.5
67.5°	8908.7	8980.0	9741.9	10926.1	13343.2	13537.9	13338.7	12633.3	11038.2	10223.1	8749.0
70°	7616.9	7729.0	8477.3	10064.6	13320.5	13424.7	13251.5	12798.6	10973.7	10014.7	8154.7
72.5°	6299.1	6362.5	6996.5	8580.3	12669.6	12756.7	12665.0	12545.0	10756.3	9434.0	7012.4
75°	4734.5	4748.1	5398.0	6775.7	11202.3	11657.5	11769.5	12108.0	9924.2	8086.7	5186.2
77.5°	3174.5	3309.2	3933.0	5178.3	9196.2	9924.2	10455.1	10701.9	8291.7	6035.3	2757.8
80°	1703.8	1737.8	2410.3	3674.9	6988.6	7684.8	8188.6	8193.2	5798.7	2989.9	615.9
82.5°	789.1	756.3	1213.6	2325.4	4841.0	5151.2	5488.5	4597.5	2322.0	510.6	157.4
85°	349.8	369.1	549.1	1133.3	2686.5	2997.9	2954.8	2035.6	407.6	138.1	96.2
87.5°	130.2	137.0	212.8	457.4	958.9	1046.1	940.8	391.7	53.2	48.7	29.4
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°	2359.3	2359.3	2359.3	2359.3	2359.3	2359.3	2359.3	2359.3	2359.3	2359.3	2359.3
2.5°	2363.9	2363.9	2361.6	2331.0	2324.2	2309.5	2297.1	2306.1	2295.9	2302.7	2295.9
5°	2374.1	2368.4	2354.8	2318.6	2301.6	2268.8	2243.9	2249.5	2235.9	2235.9	2234.8
7.5°	2397.8	2386.5	2362.7	2305.0	2273.3	2225.8	2187.3	2174.8	2161.2	2145.4	2143.1
10°	2436.3	2420.5	2388.8	2309.5	2248.4	2185.0	2118.2	2092.2	2058.2	2033.3	2028.8
12.5°	2489.5	2465.8	2422.7	2326.5	2246.1	2145.4	2055.9	2005.0	1964.2	1928.0	1920.1
15°	2566.5	2542.7	2491.8	2360.5	2247.3	2108.0	1990.3	1905.4	1835.2	1801.2	1802.3
17.5°	2678.6	2661.6	2583.5	2431.8	2268.8	2088.8	1935.9	1801.2	1692.5	1635.9	1628.0
20°	2822.4	2811.1	2716.0	2525.8	2318.6	2092.2	1877.1	1690.3	1530.6	1407.2	1380.1
22.5°	2989.9	2973.0	2856.3	2607.3	2357.1	2083.1	1812.5	1568.0	1328.0	1167.2	1135.5
25°	3176.7	3167.7	2985.4	2678.6	2361.6	2044.6	1719.7	1409.5	1108.3	936.3	909.1
27.5°	3415.6	3362.4	3102.0	2717.1	2351.4	1968.8	1587.2	1192.1	880.8	761.9	732.5
30°	3677.1	3569.6	3215.2	2746.5	2301.6	1847.6	1398.2	940.8	655.5	550.2	535.5
32.5°	3967.0	3806.2	3321.6	2744.3	2213.3	1660.8	1152.5	653.2	442.7	399.6	384.9
35°	4491.1	4218.3	3449.6	2706.9	2065.0	1438.9	814.0	425.7	328.3	302.3	298.9
37.5°	5219.1	4756.0	3621.7	2635.6	1873.7	1180.8	531.0	291.0	280.8	281.9	280.8
40°	5815.7	5356.1	3860.5	2528.0	1632.5	843.4	318.1	259.3	264.9	268.3	269.4
42.5°	6399.9	5845.1	4156.0	2393.3	1380.1	547.9	258.1	247.9	243.4	249.1	251.3
45°	6869.7	6272.0	4434.5	2235.9	1084.6	323.8	250.2	229.8	221.9	224.2	227.6
47.5°	7245.6	6611.6	4602.1	2052.5	792.5	244.5	243.4	214.0	202.6	200.4	199.3
50°	7599.9	6902.5	4709.6	1830.6	504.9	235.5	225.3	195.9	182.3	180.0	180.0
52.5°	7841.1	7092.7	4745.9	1568.0	301.1	229.8	212.8	181.1	163.0	166.4	168.7
55°	8076.6	7285.2	4671.1	1226.1	231.0	215.1	199.3	163.0	148.3	161.9	166.4
57.5°	8188.6	7313.5	4502.4	852.5	224.2	194.7	180.0	146.0	134.7	142.6	142.6
60°	8279.2	7294.3	4267.0	540.0	218.5	181.1	164.2	132.5	118.9	114.3	110.9
62.5°	8219.2	7217.3	3793.7	352.1	202.6	165.3	149.4	122.3	103.0	90.6	89.4
65°	8091.3	6945.6	3028.4	277.4	187.9	157.4	135.9	109.8	90.6	75.9	74.7
67.5°	7714.3	6284.4	1959.7	229.8	180.0	151.7	125.7	101.9	80.4	65.7	64.5
70°	6810.8	5076.4	601.2	206.0	186.8	146.0	123.4	92.8	71.3	57.7	55.5
72.5°	5385.5	3391.8	223.0	171.0	160.8	140.4	120.0	83.8	61.1	48.7	46.4
75°	3468.8	1108.3	189.1	132.5	137.0	133.6	110.9	77.0	52.1	39.6	38.5
77.5°	982.7	232.1	172.1	97.4	121.1	129.1	97.4	64.5	46.4	34.0	32.8
80°	206.0	165.3	157.4	69.1	90.6	83.8	65.7	49.8	44.2	29.4	29.4
82.5°	134.7	131.3	134.7	47.5	60.0	61.1	52.1	43.0	38.5	27.2	27.2
85°	95.1	120.0	64.5	34.0	28.3	26.0	30.6	37.4	34.0	22.6	22.6
87.5°	32.8	19.2	13.6	13.6	12.5	12.5	14.7	17.0	18.1	18.1	17.0
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)