

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: P510008

Luminaire Tested: **VERD-M-CA3-180-760-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510008
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-CA3-180-760-U-T4-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 1120mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22873 lumens
Efficiency: N/A
Efficacy: 124.9 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

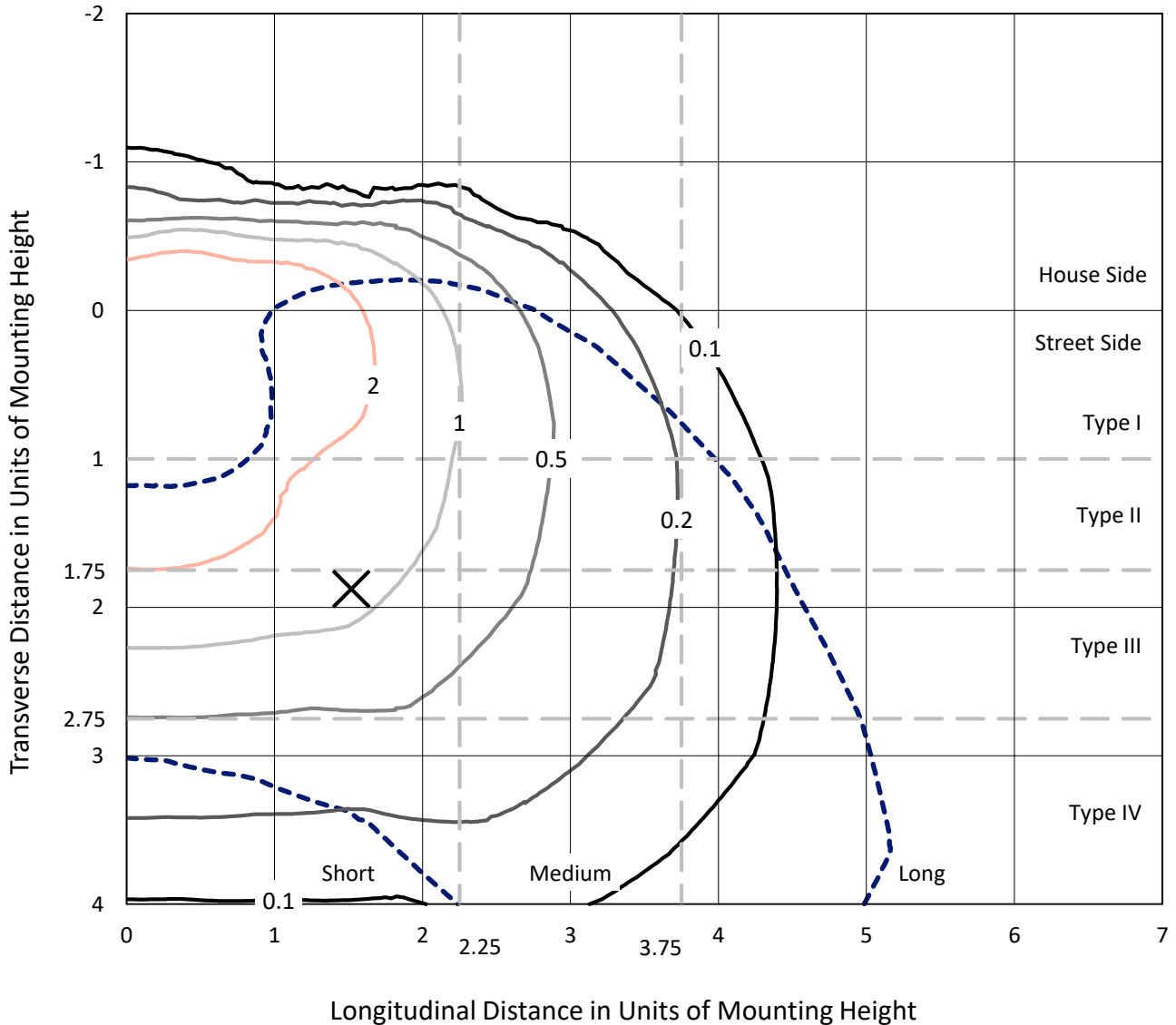
Input Watts (W): 183.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

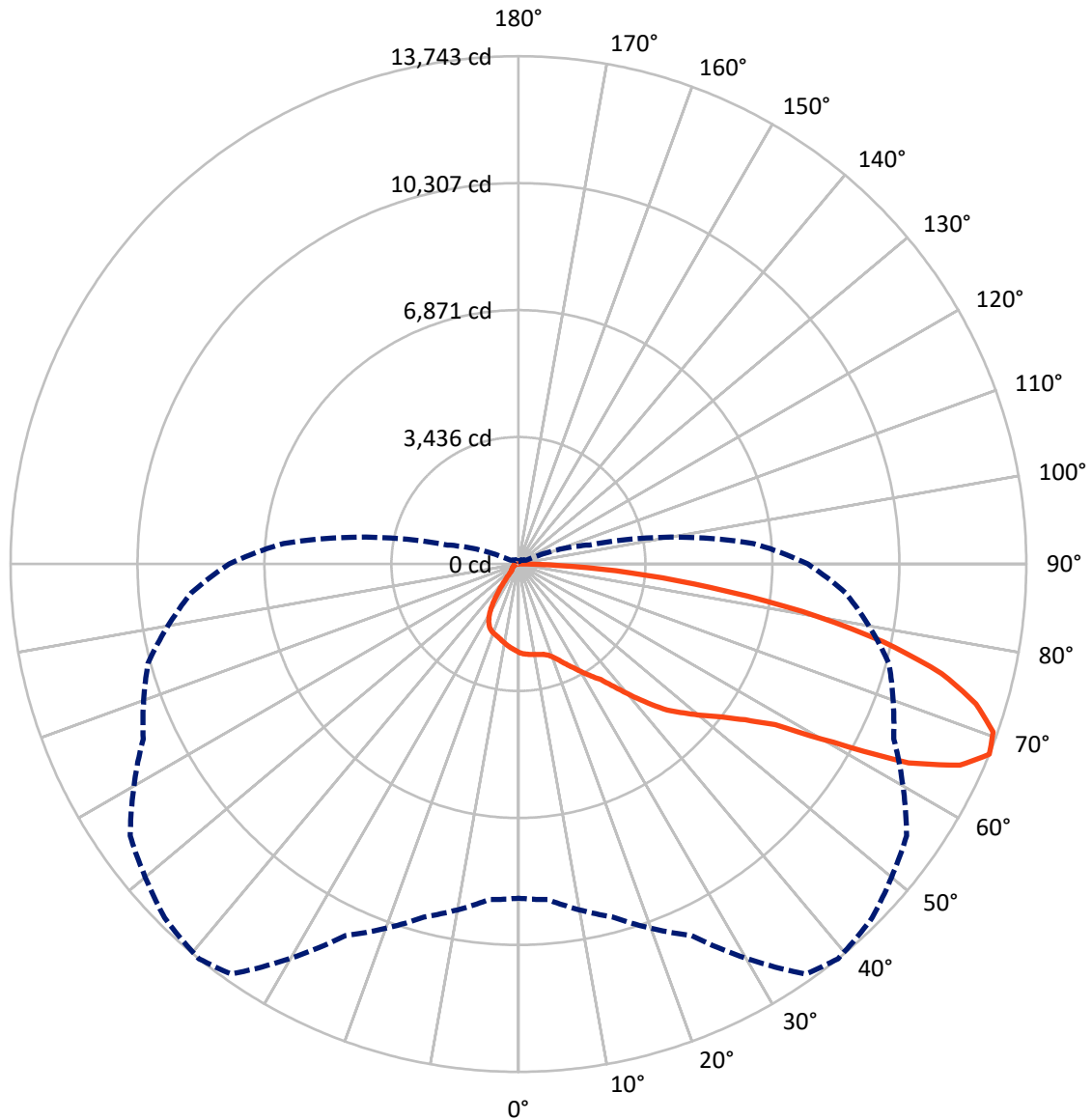
✕ Max cd
 - - - 1/2 Max cd



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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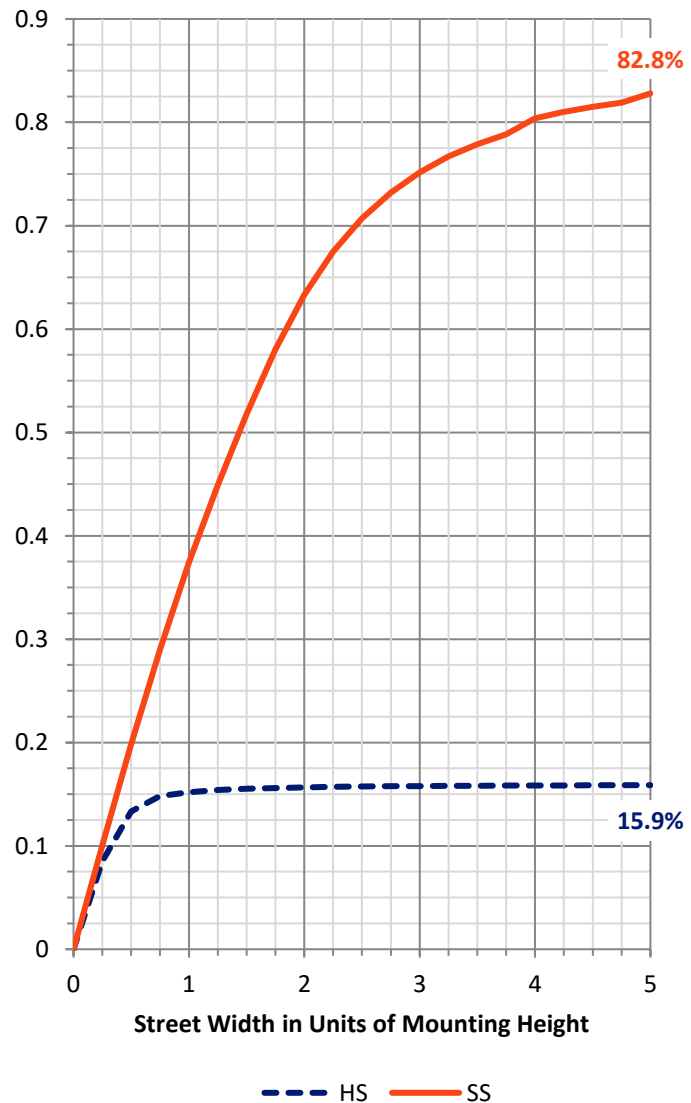
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3672.8	0.0	3672.8
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	19200.2	0.0	19200.2
	% Fixture	83.9	0.0	83.9
Total	Lumens	22873.0	0.0	22873.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.1	1.0
10°-20°	673.0	2.9
20°-30°	1192.3	5.2
30°-40°	1909.6	8.3
40°-50°	3063.4	13.4
50°-60°	4477.9	19.6
60°-70°	5967.0	26.1
70°-80°	4477.7	19.6
80°-90°	885.9	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°	22873.0	100.0
0°-180°	22873.0	100.0



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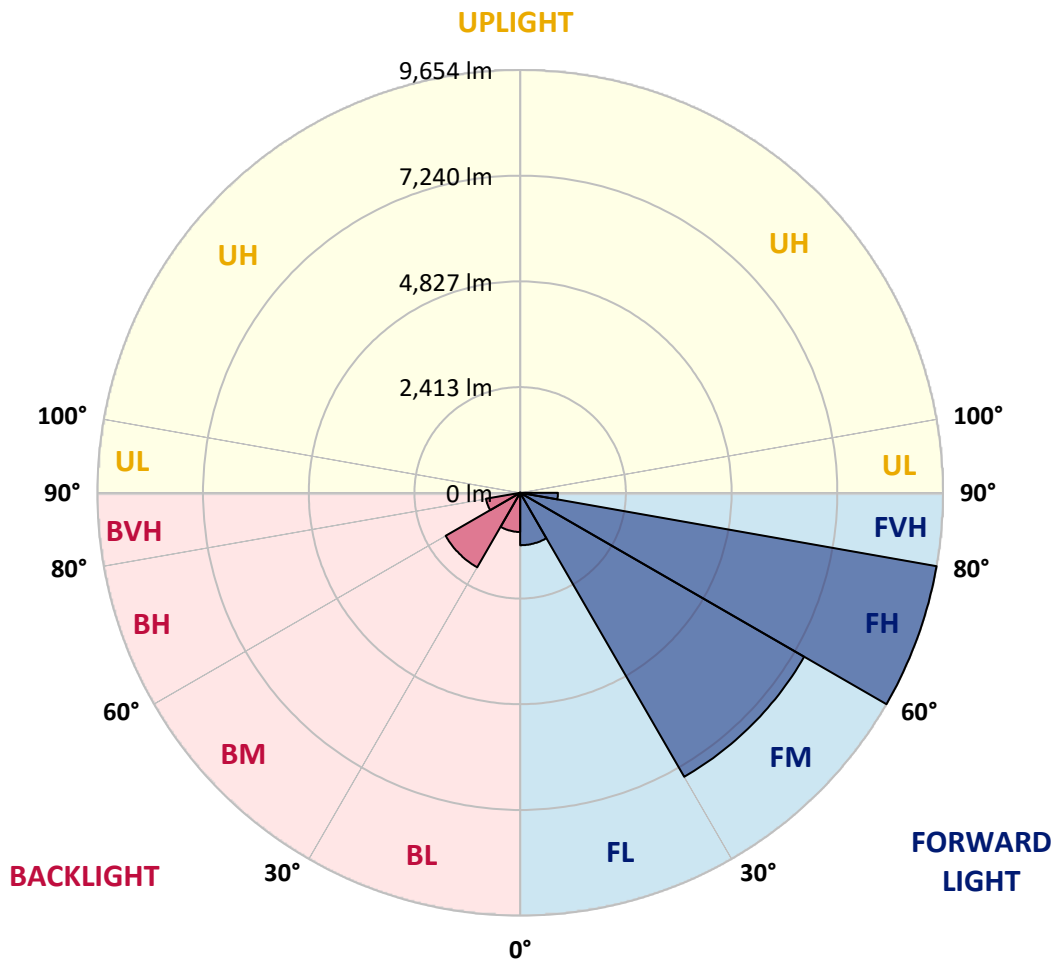
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1197.0	5.2			
FM	(30°-60°)	7486.5	32.7			
FH	(60°-80°)	9653.9	42.2			G4/12000
FVH	(80°-90°)	862.7	3.8			G5
BL	(0°-30°)	894.4	3.9	B2/1000		
BM	(30°-60°)	1964.4	8.6	B2/2500		
BH	(60°-80°)	790.8	3.5	B2/1000		G2/1000
BVH	(80°-90°)	23.2	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2395.0	2395.0	2395.0	2395.0	2395.0	2395.0	2395.0	2395.0	2395.0	2395.0	2395.0
2.5°	2397.3	2429.5	2429.5	2420.3	2426.1	2430.7	2396.2	2405.4	2401.9	2400.8	2407.7
5°	2415.7	2451.4	2449.1	2437.6	2442.2	2451.4	2419.2	2433.0	2428.4	2416.9	2419.2
7.5°	2415.7	2445.6	2452.5	2439.9	2461.7	2473.2	2438.7	2451.4	2457.1	2449.1	2441.0
10°	2406.5	2433.0	2442.2	2439.9	2468.6	2487.0	2453.7	2489.3	2493.9	2493.9	2481.2
12.5°	2403.1	2433.0	2445.6	2456.0	2489.3	2508.8	2489.3	2523.8	2546.7	2545.6	2537.6
15°	2405.4	2438.7	2458.3	2475.5	2511.1	2535.3	2527.2	2580.1	2607.7	2615.7	2615.7
17.5°	2462.9	2503.1	2512.3	2530.7	2554.8	2591.6	2581.2	2649.0	2692.7	2706.5	2726.0
20°	2623.7	2654.8	2666.3	2657.1	2667.4	2690.4	2669.7	2735.2	2800.7	2837.5	2869.7
22.5°	2829.5	2852.5	2842.1	2832.9	2827.2	2832.9	2807.6	2851.3	2924.9	2977.7	3032.9
25°	2985.8	3036.3	3028.3	3003.0	2995.0	3001.9	2969.7	3023.7	3091.5	3146.7	3229.4
27.5°	3175.4	3206.4	3184.6	3175.4	3181.1	3180.0	3160.5	3212.2	3274.2	3343.2	3465.0
30°	3381.1	3407.5	3385.7	3376.5	3386.9	3393.7	3371.9	3462.7	3528.2	3602.9	3760.4
32.5°	3719.0	3782.2	3722.4	3602.9	3605.2	3615.6	3617.9	3739.7	3859.2	3917.8	4125.8
35°	4200.5	4251.1	4171.8	4027.0	3846.6	3839.7	3858.0	4039.6	4279.8	4546.5	4790.1
37.5°	4649.9	4723.4	4652.2	4483.2	4263.7	4210.9	4115.5	4331.5	4709.6	5283.1	5586.5
40°	5188.9	5244.1	5102.7	4955.6	4736.1	4661.4	4508.5	4646.4	5164.8	6052.0	6261.1
42.5°	5622.2	5655.5	5538.3	5384.3	5193.5	5137.2	4979.7	4992.4	5650.9	6725.4	6859.9
45°	6023.2	6058.9	5962.3	5831.3	5710.6	5642.8	5527.9	5590.0	6220.9	7435.7	7354.1
47.5°	6327.8	6363.4	6286.4	6193.3	6068.1	6022.1	6024.4	6247.3	6918.5	8003.4	7797.7
50°	6826.6	6812.8	6611.7	6510.5	6412.8	6437.0	6462.3	6779.5	7621.9	8490.7	8208.0
52.5°	7696.6	7628.8	7213.9	6949.5	6828.9	6870.2	6911.6	7333.4	8420.6	8935.5	8522.9
55°	8680.3	8611.4	8258.5	7693.1	7373.6	7440.3	7404.6	7881.6	9091.8	9363.0	8782.6
57.5°	9411.2	9525.0	9390.6	9082.6	8282.7	8195.3	8116.0	8435.5	9634.2	9790.5	9032.0
60°	10046.8	10205.4	10445.6	10361.7	10021.5	9794.0	9066.5	9082.6	10156.0	10087.0	9130.8
62.5°	10667.4	10760.5	11171.9	11262.7	11684.5	11847.7	11108.7	9919.2	10660.5	10292.7	9197.5
65°	10046.8	10166.3	10882.3	11543.1	12906.1	13124.5	12864.8	11433.9	11031.7	10414.5	9120.5
67.5°	9043.5	9115.9	9889.3	11091.5	13545.1	13742.8	13540.5	12824.5	11205.2	10377.8	8881.4
70°	7732.2	7846.0	8605.6	10216.9	13522.1	13627.9	13452.0	12992.3	11139.7	10166.3	8278.1
72.5°	6394.5	6458.8	7102.4	8710.2	12861.3	12949.8	12856.7	12734.9	10919.1	9576.7	7118.5
75°	4806.2	4820.0	5479.6	6878.3	11371.9	11833.9	11947.7	12291.3	10074.4	8209.1	5264.7
77.5°	3222.5	3359.3	3992.5	5256.7	9335.4	10074.4	10613.4	10863.9	8417.1	6126.7	2799.6
80°	1729.6	1764.1	2446.8	3730.5	7094.4	7801.1	8312.6	8317.2	5886.5	3035.2	625.2
82.5°	801.0	767.7	1232.0	2360.6	4914.2	5229.1	5571.6	4667.1	2357.1	518.3	159.7
85°	355.1	374.7	557.4	1150.4	2727.2	3043.2	2999.6	2066.4	413.7	140.2	97.7
87.5°	132.2	139.1	216.1	464.3	973.4	1061.9	955.0	397.6	54.0	49.4	29.9
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°	2395.0	2395.0	2395.0	2395.0	2395.0	2395.0	2395.0	2395.0	2395.0	2395.0	2395.0
2.5°	2399.6	2399.6	2397.3	2366.3	2359.4	2344.5	2331.8	2341.0	2330.7	2337.6	2330.7
5°	2410.0	2404.2	2390.5	2353.7	2336.4	2303.1	2277.8	2283.6	2269.8	2269.8	2268.6
7.5°	2434.1	2422.6	2398.5	2339.9	2307.7	2259.4	2220.4	2207.7	2193.9	2177.8	2175.5
10°	2473.2	2457.1	2424.9	2344.5	2282.4	2218.1	2150.3	2123.8	2089.3	2064.1	2059.5
12.5°	2527.2	2503.1	2459.4	2361.7	2280.1	2177.8	2087.0	2035.3	1994.0	1957.2	1949.1
15°	2605.4	2581.2	2529.5	2396.2	2281.3	2139.9	2020.4	1934.2	1862.9	1828.5	1829.6
17.5°	2719.1	2701.9	2622.6	2468.6	2303.1	2120.4	1965.2	1828.5	1718.1	1660.7	1652.6
20°	2865.1	2853.6	2757.1	2564.0	2353.7	2123.8	1905.5	1715.8	1553.8	1428.5	1400.9
22.5°	3035.2	3017.9	2899.6	2646.7	2392.7	2114.6	1840.0	1591.7	1348.1	1184.9	1152.7
25°	3224.8	3215.6	3030.6	2719.1	2397.3	2075.6	1745.7	1430.8	1125.1	950.4	922.9
27.5°	3467.3	3413.3	3149.0	2758.2	2387.0	1998.6	1611.3	1210.2	894.1	773.4	743.6
30°	3732.8	3623.6	3263.9	2788.1	2336.4	1875.6	1419.3	955.0	665.4	558.5	543.6
32.5°	4027.0	3863.8	3371.9	2785.8	2246.8	1686.0	1169.9	663.1	449.4	405.7	390.7
35°	4559.1	4282.1	3501.8	2747.9	2096.2	1460.7	826.3	432.1	333.3	306.9	303.4
37.5°	5298.1	4828.0	3676.5	2675.5	1902.0	1198.7	539.0	295.4	285.0	286.2	285.0
40°	5903.7	5437.1	3919.0	2566.3	1657.2	856.2	322.9	263.2	268.9	272.4	273.5
42.5°	6496.7	5933.6	4218.9	2429.5	1400.9	556.2	262.0	251.7	247.1	252.8	255.1
45°	6973.7	6366.9	4501.6	2269.8	1101.0	328.7	254.0	233.3	225.3	227.6	231.0
47.5°	7355.2	6711.6	4671.7	2083.6	804.5	248.2	247.1	217.2	205.7	203.4	202.3
50°	7714.9	7007.0	4780.9	1858.3	512.6	239.0	228.7	198.8	185.0	182.7	182.7
52.5°	7959.7	7200.1	4817.7	1591.7	305.7	233.3	216.1	183.9	165.5	168.9	171.2
55°	8198.8	7395.5	4741.8	1244.6	234.4	218.4	202.3	165.5	150.6	164.3	168.9
57.5°	8312.6	7424.2	4570.6	865.4	227.6	197.7	182.7	148.3	136.8	144.8	144.8
60°	8404.5	7404.6	4331.5	548.2	221.8	183.9	166.6	134.5	120.7	116.1	112.6
62.5°	8343.6	7326.5	3851.2	357.4	205.7	167.8	151.7	124.1	104.6	91.9	90.8
65°	8213.7	7050.7	3074.3	281.6	190.8	159.7	137.9	111.5	91.9	77.0	75.9
67.5°	7831.0	6379.5	1989.4	233.3	182.7	154.0	127.6	103.4	81.6	66.7	65.5
70°	6913.9	5153.3	610.3	209.2	189.6	148.3	125.3	94.2	72.4	58.6	56.3
72.5°	5467.0	3443.2	226.4	173.5	163.2	142.5	121.8	85.0	62.1	49.4	47.1
75°	3521.3	1125.1	191.9	134.5	139.1	135.6	112.6	78.1	52.9	40.2	39.1
77.5°	997.6	235.6	174.7	98.8	123.0	131.0	98.8	65.5	47.1	34.5	33.3
80°	209.2	167.8	159.7	70.1	91.9	85.0	66.7	50.6	44.8	29.9	29.9
82.5°	136.8	133.3	136.8	48.3	60.9	62.1	52.9	43.7	39.1	27.6	27.6
85°	96.5	121.8	65.5	34.5	28.7	26.4	31.0	37.9	34.5	23.0	23.0
87.5°	33.3	19.5	13.8	13.8	12.6	12.6	14.9	17.2	18.4	18.4	17.2
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)