

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: P510264

Luminaire Tested: **VERD-M-CA4-240-727-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510264
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-CA4-240-727-U-T4-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2700K, 1090mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25468 lumens
Efficiency: N/A
Efficacy: 105.1 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

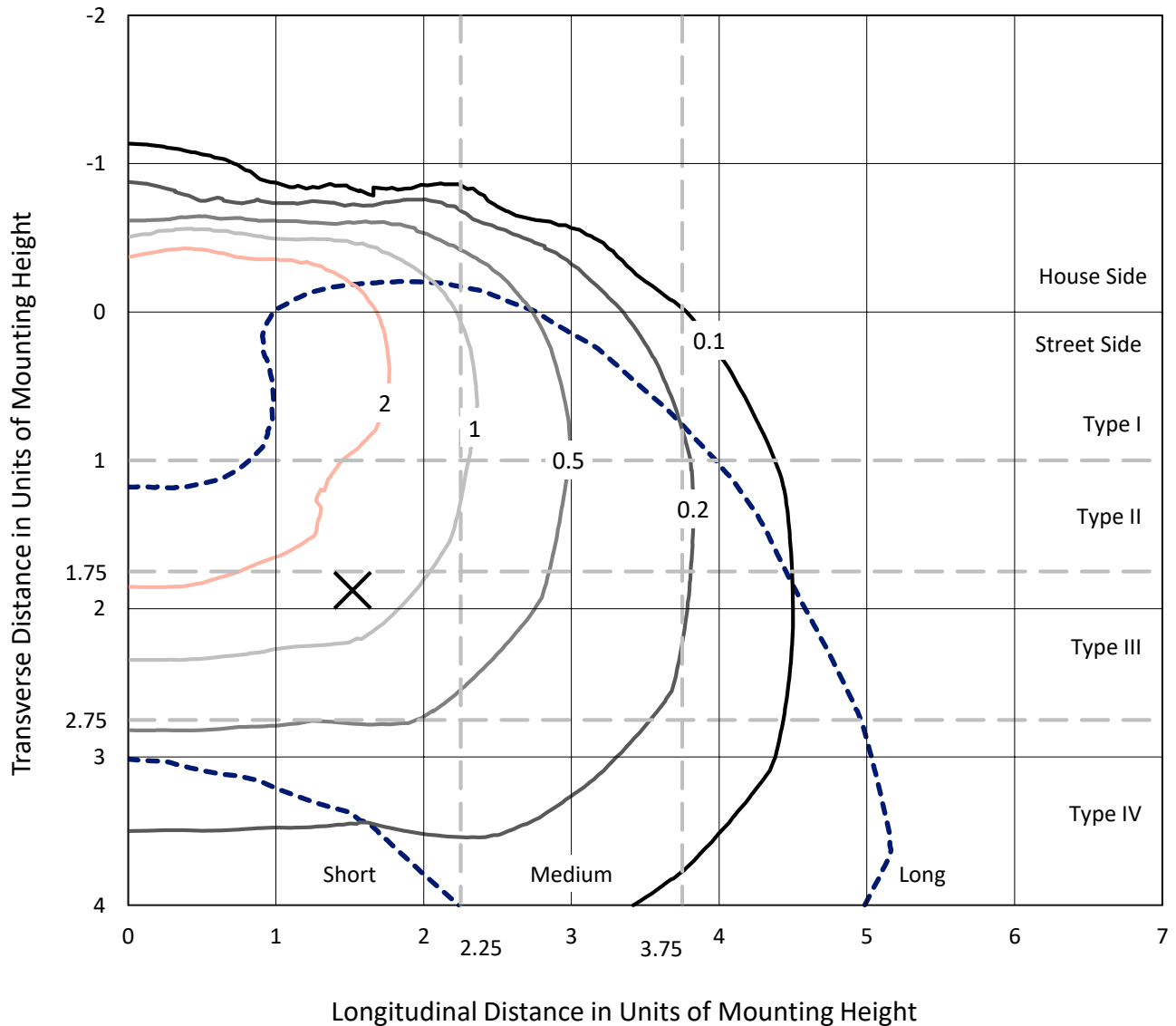
Input Watts (W): 242.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510264
 CATALOG NUMBER: VERD-M-CA4-240-727-U-T4-HSS

Iso-Footcandle Lines of Horizontal Illumination

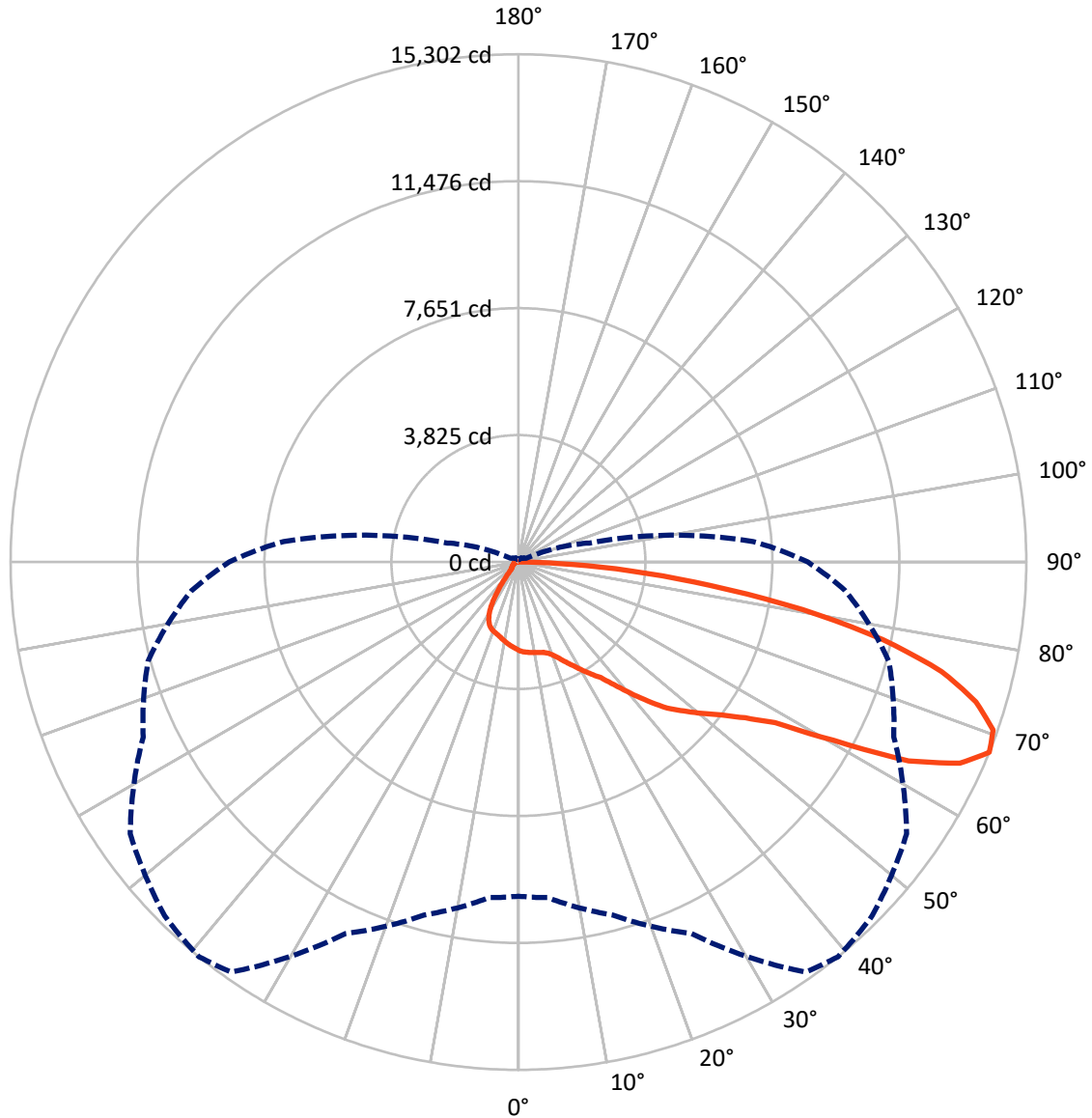
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P510264
CATALOG NUMBER: VERD-M-CA4-240-727-U-T4-HSS

Luminous Intensity Polar Plot



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

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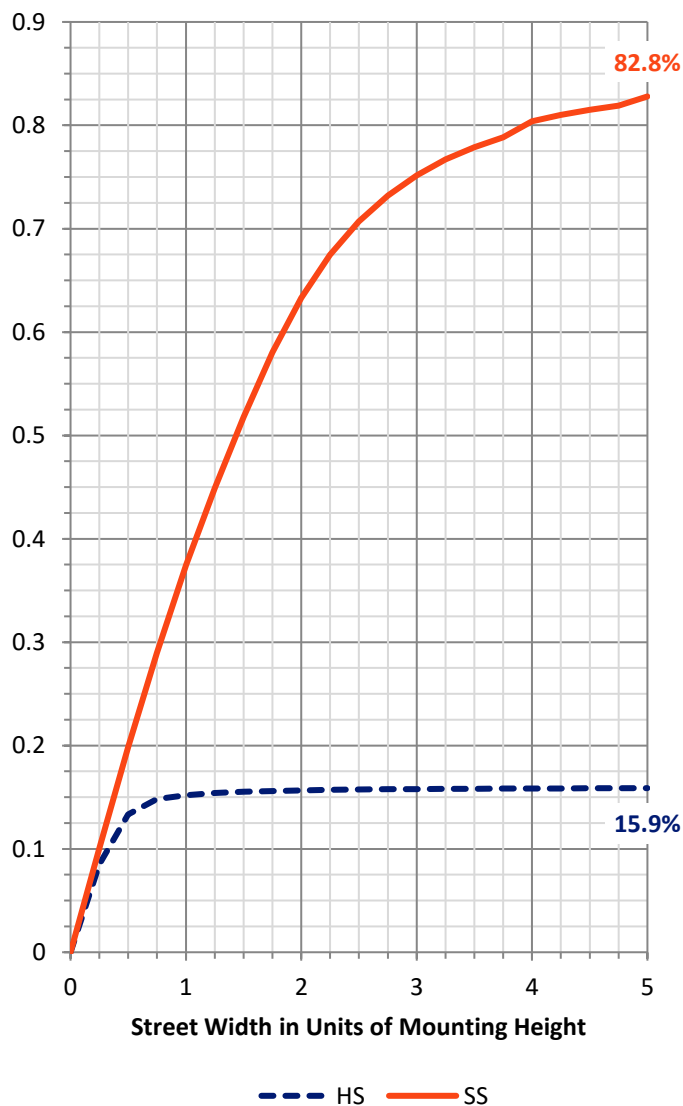
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4089.5	0.0	4089.5
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	21378.5	0.0	21378.5
	% Fixture	83.9	0.0	83.9
Total	Lumens	25468.0	0.0	25468.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.8	1.0
10°-20°	749.3	2.9
20°-30°	1327.5	5.2
30°-40°	2126.3	8.3
40°-50°	3411.0	13.4
50°-60°	4985.9	19.6
60°-70°	6644.0	26.1
70°-80°	4985.7	19.6
80°-90°	986.4	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°	25468.0	100.0
0°-180°	25468.0	100.0

Coefficient of Utilization



REPORT NUMBER: P510264

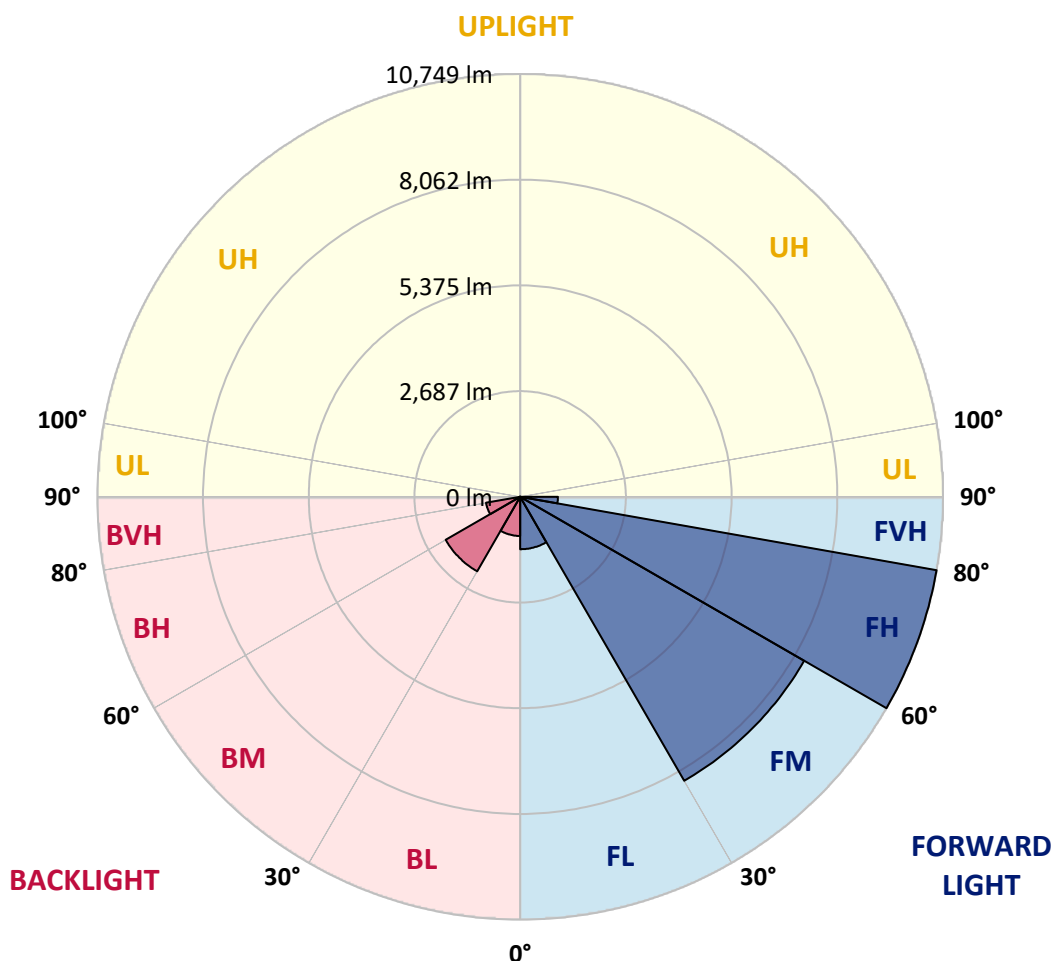
CATALOG NUMBER: VERD-M-CA4-240-727-U-T4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1332.8	5.2			
FM	(30°-60°)	8335.9	32.7			
FH	(60°-80°)	10749.2	42.2			G4/12000
FVH	(80°-90°)	960.6	3.8			G5
BL	(0°-30°)	995.8	3.9	B2/1000		
BM	(30°-60°)	2187.3	8.6	B2/2500		
BH	(60°-80°)	880.5	3.5	B2/1000		G2/1000
BVH	(80°-90°)	25.8	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





REPORT NUMBER: P510264

CATALOG NUMBER: VERD-M-CA4-240-727-U-T4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2666.8	2666.8	2666.8	2666.8	2666.8	2666.8	2666.8	2666.8	2666.8	2666.8	2666.8
2.5°	2669.3	2705.2	2705.2	2694.9	2701.3	2706.4	2668.1	2678.3	2674.4	2673.2	2680.8
5°	2689.8	2729.5	2726.9	2714.1	2719.2	2729.5	2693.6	2709.0	2703.9	2691.1	2693.6
7.5°	2689.8	2723.1	2730.8	2716.7	2741.0	2753.8	2715.4	2729.5	2735.9	2726.9	2718.0
10°	2679.6	2709.0	2719.2	2716.7	2748.7	2769.1	2732.0	2771.7	2776.8	2776.8	2762.7
12.5°	2675.7	2709.0	2723.1	2734.6	2771.7	2793.5	2771.7	2810.1	2835.7	2834.4	2825.4
15°	2678.3	2715.4	2737.2	2756.3	2796.0	2822.9	2813.9	2872.8	2903.5	2912.5	2912.5
17.5°	2742.3	2787.1	2797.3	2817.8	2844.6	2885.6	2874.1	2949.6	2998.2	3013.6	3035.3
20°	2921.4	2956.0	2968.8	2958.5	2970.0	2995.6	2972.6	3045.5	3118.5	3159.4	3195.3
22.5°	3150.5	3176.1	3164.6	3154.3	3147.9	3154.3	3126.2	3174.8	3256.7	3315.5	3377.0
25°	3324.5	3380.8	3371.9	3343.7	3334.7	3342.4	3306.6	3366.7	3442.2	3503.7	3595.8
27.5°	3535.6	3570.2	3545.9	3535.6	3542.0	3540.8	3519.0	3576.6	3645.7	3722.5	3858.1
30°	3764.7	3794.1	3769.8	3759.6	3771.1	3778.8	3754.5	3855.6	3928.5	4011.7	4187.0
32.5°	4140.9	4211.3	4144.8	4011.7	4014.2	4025.7	4028.3	4164.0	4297.0	4362.3	4593.9
35°	4677.1	4733.4	4645.1	4483.9	4283.0	4275.3	4295.8	4497.9	4765.4	5062.3	5333.5
37.5°	5177.4	5259.3	5180.0	4991.9	4747.5	4688.6	4582.4	4823.0	5244.0	5882.5	6220.3
40°	5777.6	5839.0	5681.6	5517.8	5273.4	5190.2	5020.0	5173.6	5750.7	6738.6	6971.5
42.5°	6260.0	6297.1	6166.6	5995.1	5782.7	5720.0	5544.7	5558.8	6292.0	7488.5	7638.2
45°	6706.6	6746.3	6638.8	6492.9	6358.5	6283.0	6155.1	6224.2	6926.7	8279.3	8188.4
47.5°	7045.7	7085.4	6999.6	6896.0	6756.5	6705.3	6707.9	6956.1	7703.4	8911.4	8682.4
50°	7601.1	7585.7	7361.8	7249.2	7140.4	7167.3	7195.4	7548.6	8486.6	9454.0	9139.2
52.5°	8569.8	8494.3	8032.3	7738.0	7603.6	7649.7	7695.8	8165.4	9375.9	9949.2	9489.8
55°	9665.1	9588.3	9195.5	8565.9	8210.2	8284.4	8244.7	8775.8	10123.2	10425.2	9779.0
57.5°	10479.0	10605.7	10455.9	10113.0	9222.4	9125.1	9036.8	9392.6	10727.2	10901.3	10056.7
60°	11186.6	11363.2	11630.7	11537.2	11158.5	10905.1	10095.1	10113.0	11308.2	11231.4	10166.7
62.5°	11877.6	11981.3	12439.4	12540.5	13010.1	13191.8	12369.0	11044.6	11869.9	11460.5	10241.0
65°	11186.6	11319.7	12116.9	12852.7	14370.4	14613.5	14324.3	12731.1	12283.3	11596.1	10155.2
67.5°	10069.5	10150.1	11011.3	12349.8	15081.8	15301.9	15076.7	14279.5	12476.5	11555.2	9889.1
70°	8609.4	8736.1	9582.0	11376.0	15056.3	15174.0	14978.2	14466.3	12403.6	11319.7	9217.3
72.5°	7119.9	7191.6	7908.2	9698.4	14320.5	14419.0	14315.3	14179.7	12157.9	10663.2	7926.1
75°	5351.5	5366.8	6101.3	7658.7	12662.0	13176.5	13303.1	13685.8	11217.3	9140.5	5862.0
77.5°	3588.1	3740.4	4445.5	5853.1	10394.5	11217.3	11817.5	12096.4	9372.1	6821.8	3117.2
80°	1925.9	1964.2	2724.4	4153.7	7899.2	8686.2	9255.6	9260.8	6554.3	3379.5	696.1
82.5°	891.9	854.8	1371.8	2628.4	5471.7	5822.4	6203.7	5196.6	2624.5	577.1	177.9
85°	395.4	417.2	620.6	1280.9	3036.6	3388.5	3339.9	2300.8	460.7	156.1	108.8
87.5°	147.2	154.8	240.6	517.0	1083.9	1182.4	1063.4	442.8	60.1	55.0	33.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P510264

CATALOG NUMBER: VERD-M-CA4-240-727-U-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2666.8	2666.8	2666.8	2666.8	2666.8	2666.8	2666.8	2666.8	2666.8	2666.8	2666.8
2.5°	2671.9	2671.9	2669.3	2634.8	2627.1	2610.5	2596.4	2606.6	2595.1	2602.8	2595.1
5°	2683.4	2677.0	2661.7	2620.7	2601.5	2564.4	2536.2	2542.6	2527.3	2527.3	2526.0
7.5°	2710.3	2697.5	2670.6	2605.3	2569.5	2515.8	2472.3	2458.2	2442.8	2424.9	2422.4
10°	2753.8	2735.9	2700.0	2610.5	2541.4	2469.7	2394.2	2364.8	2326.4	2298.2	2293.1
12.5°	2813.9	2787.1	2738.4	2629.7	2538.8	2424.9	2323.8	2266.2	2220.2	2179.2	2170.3
15°	2900.9	2874.1	2816.5	2668.1	2540.1	2382.7	2249.6	2153.6	2074.3	2035.9	2037.2
17.5°	3027.6	3008.4	2920.1	2748.7	2564.4	2360.9	2188.2	2035.9	1913.1	1849.1	1840.1
20°	3190.1	3177.3	3069.9	2854.9	2620.7	2364.8	2121.6	1910.5	1730.1	1590.6	1559.9
22.5°	3379.5	3360.3	3228.5	2947.0	2664.2	2354.5	2048.7	1772.3	1501.0	1319.3	1283.5
25°	3590.7	3580.4	3374.4	3027.6	2669.3	2311.0	1943.8	1593.2	1252.8	1058.3	1027.6
27.5°	3860.7	3800.5	3506.2	3071.1	2657.8	2225.3	1794.1	1347.5	995.6	861.2	827.9
30°	4156.3	4034.7	3634.2	3104.4	2601.5	2088.4	1580.4	1063.4	740.9	621.9	605.3
32.5°	4483.9	4302.2	3754.5	3101.8	2501.7	1877.2	1302.7	738.4	500.3	451.7	435.1
35°	5076.3	4767.9	3899.1	3059.6	2334.1	1626.4	920.1	481.1	371.1	341.7	337.8
37.5°	5899.1	5375.8	4093.6	2979.0	2117.8	1334.7	600.2	328.9	317.4	318.6	317.4
40°	6573.5	6054.0	4363.6	2857.4	1845.2	953.3	359.6	293.0	299.4	303.3	304.6
42.5°	7233.8	6606.8	4697.6	2705.2	1559.9	619.3	291.8	280.2	275.1	281.5	284.1
45°	7764.9	7089.2	5012.4	2527.3	1225.9	366.0	282.8	259.8	250.8	253.4	257.2
47.5°	8189.7	7473.1	5201.7	2320.0	895.7	276.4	275.1	241.9	229.1	226.5	225.2
50°	8590.2	7802.0	5323.3	2069.2	570.7	266.2	254.6	221.4	206.0	203.5	203.5
52.5°	8862.8	8016.9	5364.3	1772.3	340.4	259.8	240.6	204.7	184.3	188.1	190.7
55°	9129.0	8234.5	5279.8	1385.9	261.0	243.1	225.2	184.3	167.6	183.0	188.1
57.5°	9255.6	8266.5	5089.1	963.6	253.4	220.1	203.5	165.1	152.3	161.2	161.2
60°	9358.0	8244.7	4823.0	610.4	247.0	204.7	185.5	149.7	134.4	129.2	125.4
62.5°	9290.2	8157.7	4288.1	398.0	229.1	186.8	168.9	138.2	116.4	102.4	101.1
65°	9145.6	7850.6	3423.0	313.5	212.4	177.9	153.6	124.1	102.4	85.7	84.5
67.5°	8719.5	7103.3	2215.1	259.8	203.5	171.5	142.0	115.2	90.9	74.2	72.9
70°	7698.3	5737.9	679.5	232.9	211.1	165.1	139.5	104.9	80.6	65.3	62.7
72.5°	6087.3	3833.8	252.1	193.2	181.7	158.7	135.6	94.7	69.1	55.0	52.5
75°	3920.8	1252.8	213.7	149.7	154.8	151.0	125.4	87.0	58.9	44.8	43.5
77.5°	1110.7	262.3	194.5	110.0	136.9	145.9	110.0	72.9	52.5	38.4	37.1
80°	232.9	186.8	177.9	78.1	102.4	94.7	74.2	56.3	49.9	33.3	33.3
82.5°	152.3	148.4	152.3	53.7	67.8	69.1	58.9	48.6	43.5	30.7	30.7
85°	107.5	135.6	72.9	38.4	32.0	29.4	34.6	42.2	38.4	25.6	25.6
87.5°	37.1	21.8	15.4	15.4	14.1	14.1	16.6	19.2	20.5	20.5	19.2
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)