

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: P553522

Luminaire Tested: **VERD-G-CA2-140-740-U-T3-HSS**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-5)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-140-740-U-T3-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1290mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18970 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

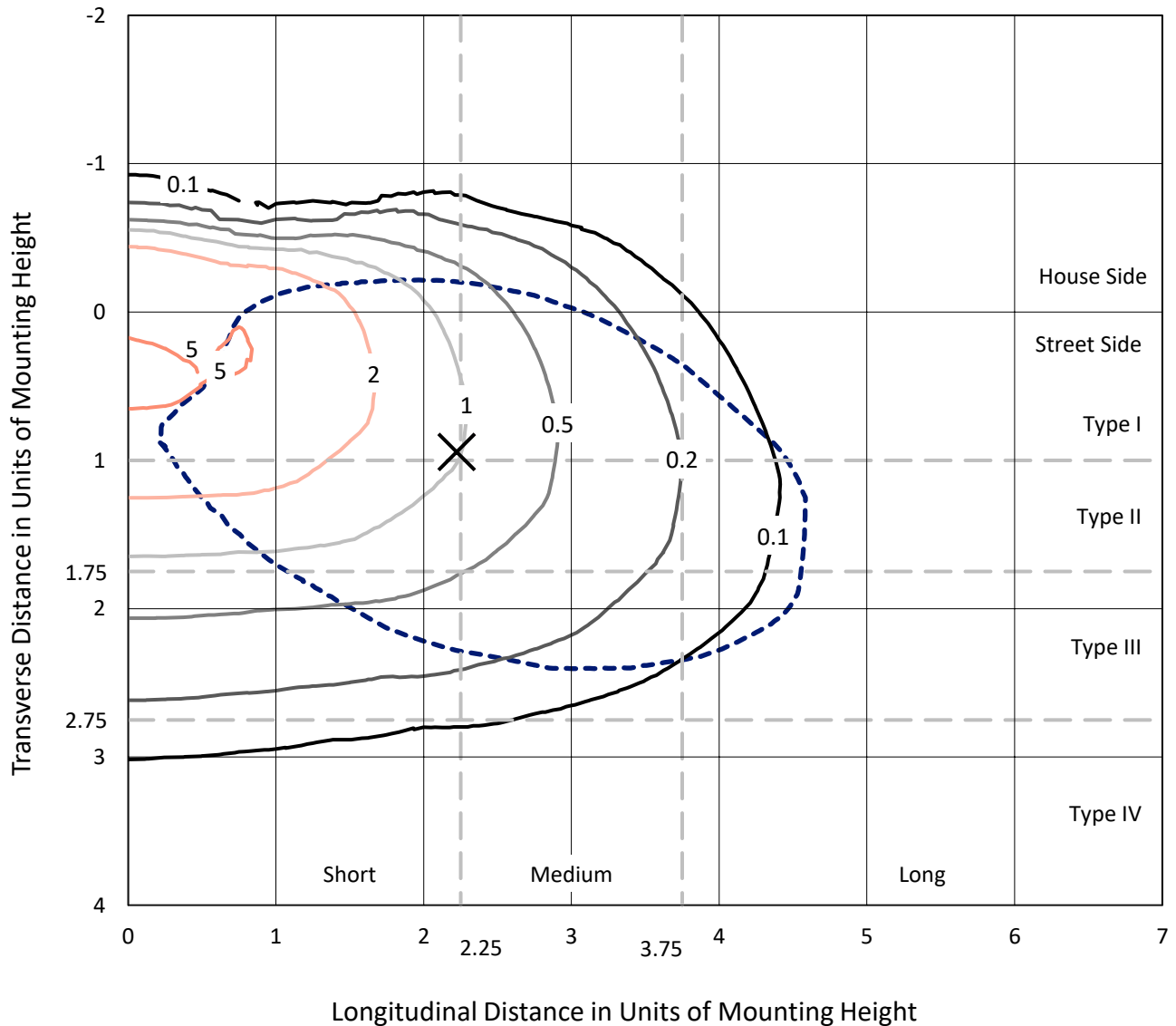
Input Watts (W): 142.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

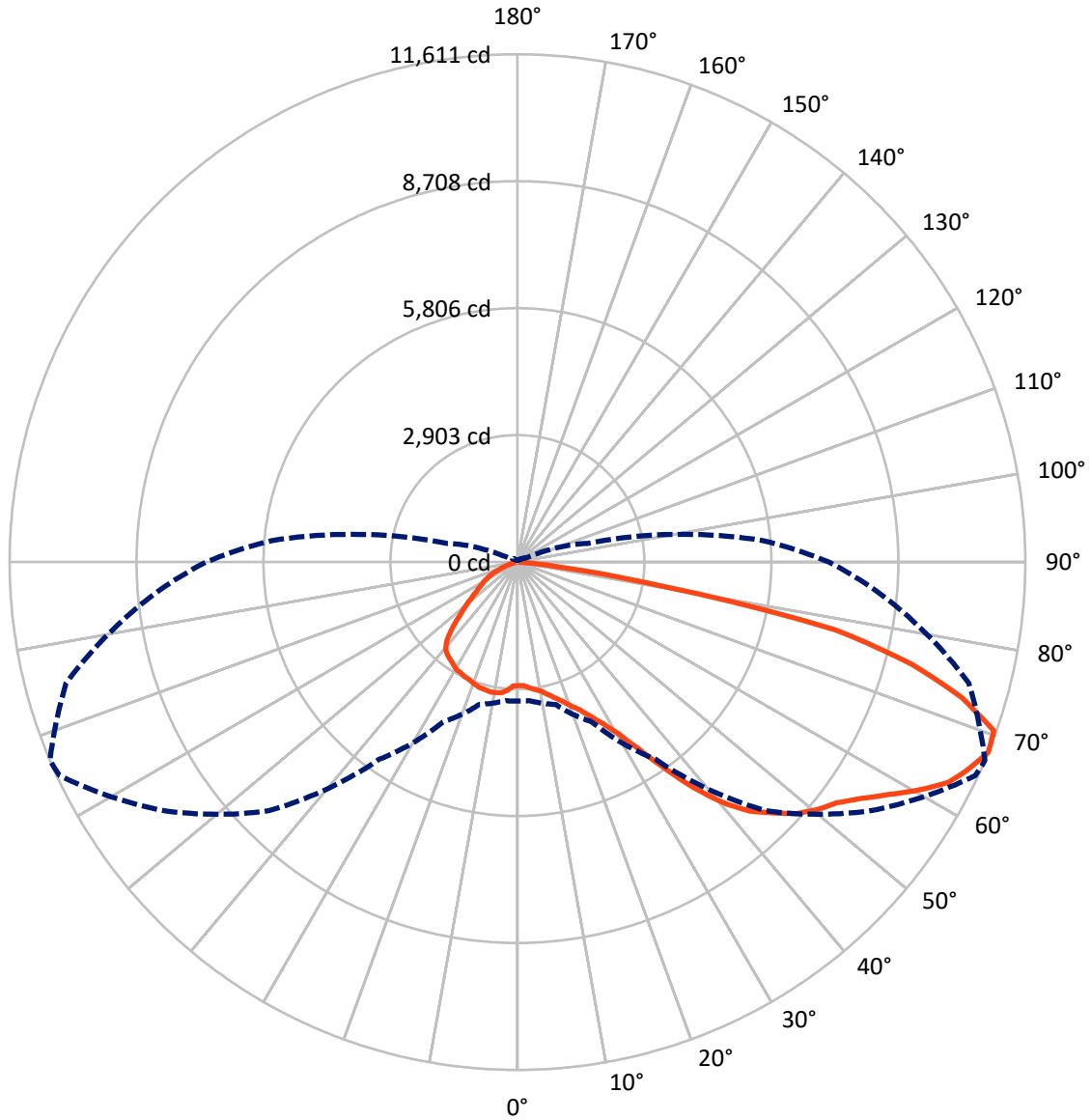
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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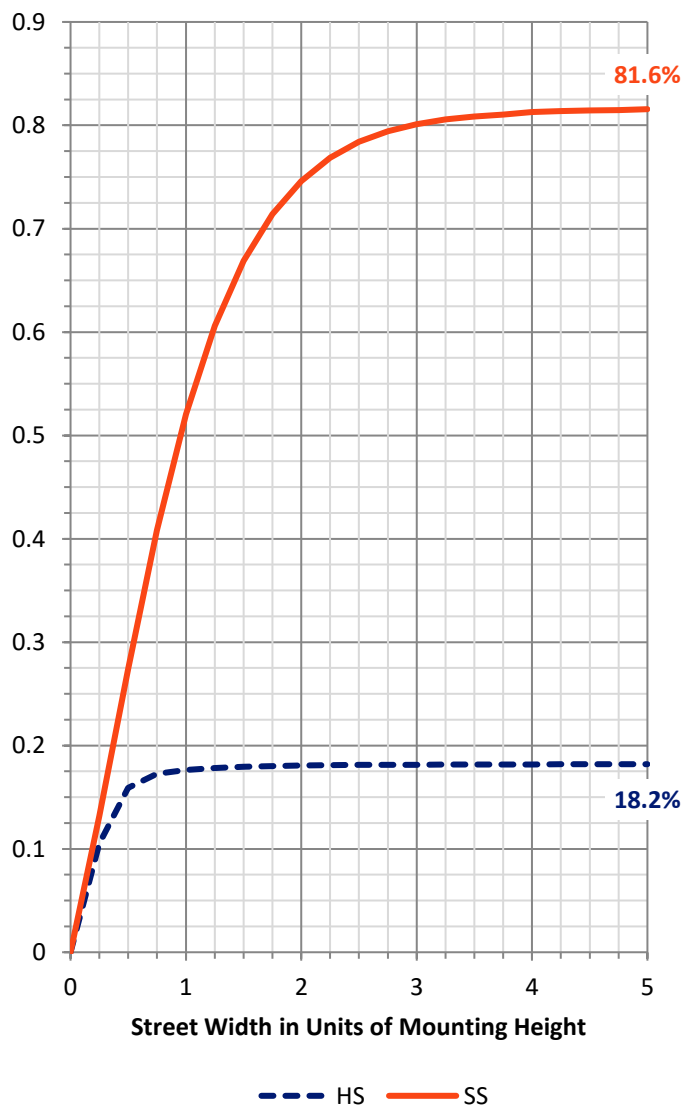
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3491.6	0.0	3491.6
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	15478.4	0.0	15478.4
	% Fixture	81.6	0.0	81.6
Total	Lumens	18970.0	0.0	18970.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.0	1.5
10°-20°	888.0	4.7
20°-30°	1513.9	8.0
30°-40°	2309.0	12.2
40°-50°	3255.0	17.2
50°-60°	3934.4	20.7
60°-70°	4143.6	21.8
70°-80°	2464.9	13.0
80°-90°	177.2	0.9
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°	18970.0	100.0
0°-180°	18970.0	100.0

Coefficient of Utilization



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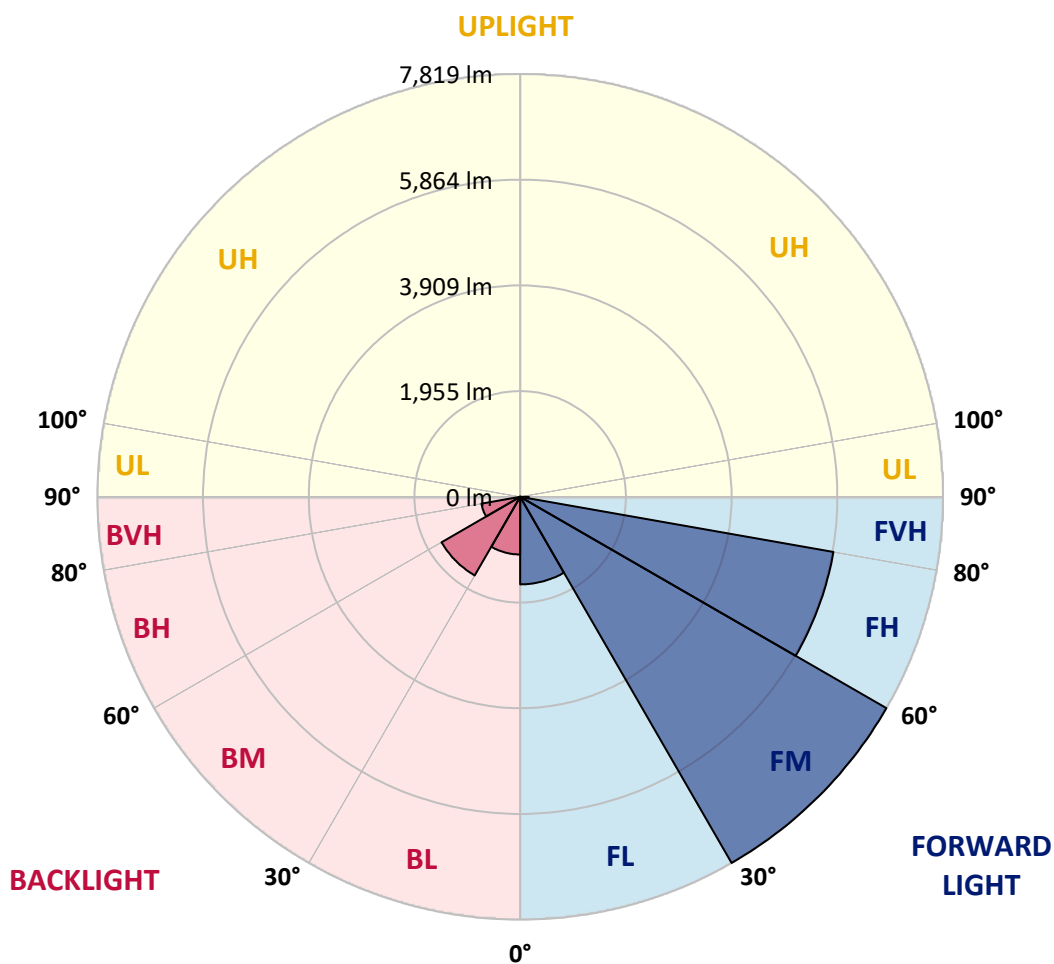
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1619.5	8.5			
FM	(30°-60°)	7818.6	41.2			
FH	(60°-80°)	5881.7	31.0			G3/7500
FVH	(80°-90°)	158.6	0.8			G2/225
BL	(0°-30°)	1066.3	5.6	B3/2500		
BM	(30°-60°)	1679.8	8.9	B2/2500		
BH	(60°-80°)	726.9	3.8	B2/1000		G2/1000
BVH	(80°-90°)	18.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2824.0	2824.0	2824.0	2824.0	2824.0	2824.0	2824.0	2824.0	2824.0	2824.0	2824.0
2.5°	2883.7	2894.6	2872.9	2867.5	2839.0	2843.0	2837.6	2824.0	2829.5	2818.6	2825.4
5°	2995.0	2966.5	2958.4	2942.1	2916.3	2901.4	2879.7	2872.9	2887.8	2875.6	2878.3
7.5°	3113.1	3118.5	3081.9	3050.7	3004.5	2993.7	2955.7	2932.6	2947.5	2931.2	2940.7
10°	3261.0	3269.1	3229.8	3187.7	3148.4	3091.4	3043.9	3007.2	3003.2	2995.0	3008.6
12.5°	3455.1	3453.7	3410.3	3358.7	3281.4	3242.0	3151.1	3099.5	3106.3	3076.4	3073.7
15°	3680.3	3661.3	3611.1	3558.2	3461.9	3384.5	3274.6	3210.8	3221.7	3187.7	3179.6
17.5°	3900.2	3881.2	3841.8	3783.5	3695.3	3575.8	3441.5	3349.2	3346.5	3330.2	3281.4
20°	4125.5	4133.6	4080.7	4027.7	3939.5	3779.4	3627.4	3508.0	3510.7	3482.2	3387.2
22.5°	4388.7	4373.8	4310.0	4285.6	4185.2	4010.1	3840.5	3703.4	3676.3	3670.8	3506.6
25°	4639.8	4630.3	4571.9	4543.4	4459.3	4299.2	4079.3	3915.1	3911.0	3893.4	3661.3
27.5°	4839.3	4850.1	4844.7	4824.3	4732.1	4574.6	4381.9	4185.2	4187.9	4162.1	3862.2
30°	5122.9	5090.3	5078.1	5094.4	5086.2	4916.6	4711.7	4569.2	4559.7	4493.2	4116.0
32.5°	5288.4	5304.7	5321.0	5378.0	5379.4	5253.2	5120.2	5052.3	5090.3	5101.2	4747.0
35°	5440.4	5440.4	5534.1	5677.9	5728.1	5684.7	5627.7	5713.2	5787.8	5938.5	5523.2
37.5°	5576.1	5615.5	5703.7	5884.2	6048.4	6090.5	6215.3	6450.1	6541.0	6678.1	6177.3
40°	5690.1	5718.6	5831.3	6052.5	6334.7	6527.4	6760.9	7134.0	7229.0	7203.3	6541.0
42.5°	5563.9	5610.1	5790.6	6245.2	6600.7	6963.1	7268.4	7671.4	7786.8	7547.9	6923.7
45°	5496.1	5513.7	5702.3	6218.0	6796.1	7404.1	7750.1	8181.7	8181.7	7914.4	7193.8
47.5°	5360.4	5391.6	5615.5	6182.7	7003.8	7771.9	8122.0	8561.7	8590.2	8260.4	7462.5
50°	5223.3	5262.7	5516.4	6120.3	7120.5	8141.0	8438.2	8879.2	8890.1	8497.9	7699.9
52.5°	5087.6	5108.0	5391.6	6079.6	7249.4	8331.0	8710.9	9137.1	9142.5	8853.4	7961.8
55°	4844.7	4894.9	5188.0	5930.3	7242.6	8417.8	8853.4	9481.8	9534.7	9240.2	8219.7
57.5°	4616.7	4631.6	4951.9	5714.6	7132.7	8518.2	9160.1	9975.7	10027.3	9591.7	8411.0
60°	4312.7	4329.0	4673.7	5458.1	6969.8	8618.7	9549.6	10552.5	10575.5	9960.8	8554.9
62.5°	3995.2	4050.8	4334.4	5064.5	6631.9	8636.3	9879.4	11084.4	11074.9	10281.1	8649.9
65°	3622.0	3642.3	3915.1	4604.5	6114.9	8502.0	10015.1	11342.3	11365.3	10506.3	8587.5
67.5°	3174.2	3182.3	3369.6	4031.8	5502.9	8039.2	9902.4	11552.6	11611.0	10682.7	8326.9
70°	2507.8	2520.1	2692.4	3322.1	4634.3	7330.8	9712.5	11577.0	11552.6	10524.0	7930.6
72.5°	1747.9	1730.2	1898.5	2330.1	3509.3	6029.4	8795.1	10591.8	10635.2	9736.9	7101.5
75°	837.3	842.7	1176.6	1433.1	1970.4	4307.3	7320.0	9120.8	9302.6	8485.7	5785.1
77.5°	142.5	145.2	310.8	564.5	793.9	1807.6	4854.2	7264.3	7419.0	6660.4	3916.5
80°	114.0	114.0	152.0	304.0	420.7	749.1	1838.8	3220.3	3388.6	3016.7	1443.9
82.5°	77.4	81.4	108.6	177.8	149.3	293.1	667.7	1019.1	1046.3	948.6	593.0
85°	43.4	44.8	55.6	71.9	62.4	108.6	137.1	139.8	147.9	115.3	88.2
87.5°	5.4	12.2	12.2	12.2	5.4	5.4	4.1	4.1	5.4	4.1	4.1
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°	2824.0	2824.0	2824.0	2824.0	2824.0	2824.0	2824.0	2824.0	2824.0	2824.0	2824.0
2.5°	2821.3	2805.0	2840.3	2833.5	2858.0	2853.9	2874.2	2885.1	2908.2	2938.0	2935.3
5°	2881.0	2879.7	2921.7	2942.1	2963.8	2984.2	2985.5	3005.9	3026.2	3071.0	3069.7
7.5°	2938.0	2950.2	3010.0	3011.3	3019.4	3034.4	3014.0	3020.8	3026.2	3042.5	3047.9
10°	3004.5	3027.6	3028.9	3023.5	2997.7	2996.4	2950.2	2955.7	2931.2	2950.2	2940.7
12.5°	3090.0	3071.0	3060.2	3023.5	2984.2	2931.2	2887.8	2828.1	2814.5	2814.5	2818.6
15°	3174.2	3145.7	3052.0	2993.7	2921.7	2837.6	2767.0	2699.2	2665.3	2650.3	2647.6
17.5°	3247.4	3187.7	3054.7	2978.7	2843.0	2719.5	2613.7	2505.1	2452.2	2418.3	2412.8
20°	3307.1	3243.4	3062.9	2929.9	2757.5	2575.7	2415.6	2278.5	2174.0	2096.7	2104.8
22.5°	3407.6	3305.8	3057.4	2871.5	2658.5	2422.3	2180.8	1992.2	1817.1	1773.7	1785.9
25°	3528.3	3395.4	3088.7	2836.2	2543.1	2229.6	1912.1	1693.6	1506.3	1446.6	1450.7
27.5°	3668.1	3503.9	3123.9	2777.9	2423.7	1992.2	1609.5	1339.4	1190.1	1072.1	1062.6
30°	3890.7	3651.8	3161.9	2739.9	2256.8	1727.5	1279.7	998.8	811.5	747.7	747.7
32.5°	4413.1	3951.7	3223.0	2649.0	2036.9	1431.7	933.7	654.1	488.5	431.5	432.9
35°	5076.7	4557.0	3361.4	2537.7	1777.7	1085.6	576.7	363.7	286.3	257.8	255.1
37.5°	5710.5	5113.4	3657.3	2407.4	1450.7	688.0	324.3	223.9	195.4	194.1	195.4
40°	6101.3	5553.1	3954.5	2233.7	1059.9	378.6	210.3	183.2	179.1	175.1	175.1
42.5°	6462.3	5855.7	4179.7	1967.7	632.4	229.3	184.6	166.9	164.2	157.4	157.4
45°	6755.4	6072.8	4197.4	1613.5	335.2	203.6	169.6	152.0	146.6	142.5	141.1
47.5°	7033.6	6284.5	4133.6	1236.3	238.8	188.6	158.8	139.8	133.0	135.7	134.3
50°	7220.9	6496.2	3959.9	971.7	228.0	175.1	146.6	127.6	124.8	130.3	128.9
52.5°	7423.1	6669.9	3622.0	755.9	211.7	161.5	134.3	119.4	114.0	118.1	119.4
55°	7583.2	6667.2	3373.6	590.3	200.8	150.6	126.2	112.6	103.1	103.1	101.8
57.5°	7661.9	6603.4	3174.2	464.1	188.6	139.8	118.1	99.1	88.2	85.5	84.1
60°	7657.9	6541.0	2942.1	381.3	176.4	127.6	105.9	84.1	73.3	67.9	67.9
62.5°	7614.4	6394.4	2574.3	328.4	164.2	118.1	88.2	69.2	61.1	55.6	57.0
65°	7503.2	6112.2	2122.4	279.6	152.0	114.0	74.6	61.1	52.9	47.5	47.5
67.5°	7117.8	5638.6	1655.6	234.8	139.8	95.0	65.1	51.6	44.8	39.4	39.4
70°	6572.2	4916.6	1089.7	198.1	124.8	82.8	58.4	44.8	38.0	32.6	31.2
72.5°	5601.9	3928.7	553.7	169.6	107.2	73.3	51.6	39.4	32.6	27.1	25.8
75°	4296.4	2646.3	344.7	135.7	84.1	65.1	46.1	35.3	27.1	20.4	19.0
77.5°	2562.1	1065.3	244.3	95.0	57.0	51.6	38.0	28.5	21.7	14.9	14.9
80°	808.8	470.9	165.6	65.1	36.6	35.3	28.5	20.4	14.9	10.9	10.9
82.5°	457.3	298.6	111.3	43.4	25.8	23.1	16.3	12.2	9.5	8.1	8.1
85°	76.0	59.7	33.9	16.3	12.2	10.9	6.8	4.1	2.7	1.4	2.7
87.5°	4.1	4.1	5.4	5.4	5.4	4.1	2.7	0.0	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)