

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: P553514

Luminaire Tested: **VERD-G-CA2-140-730-U-T3-HSS**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553514
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-CA2-140-730-U-T3-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1290mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18627 lumens
Efficiency: N/A
Efficacy: 130.8 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

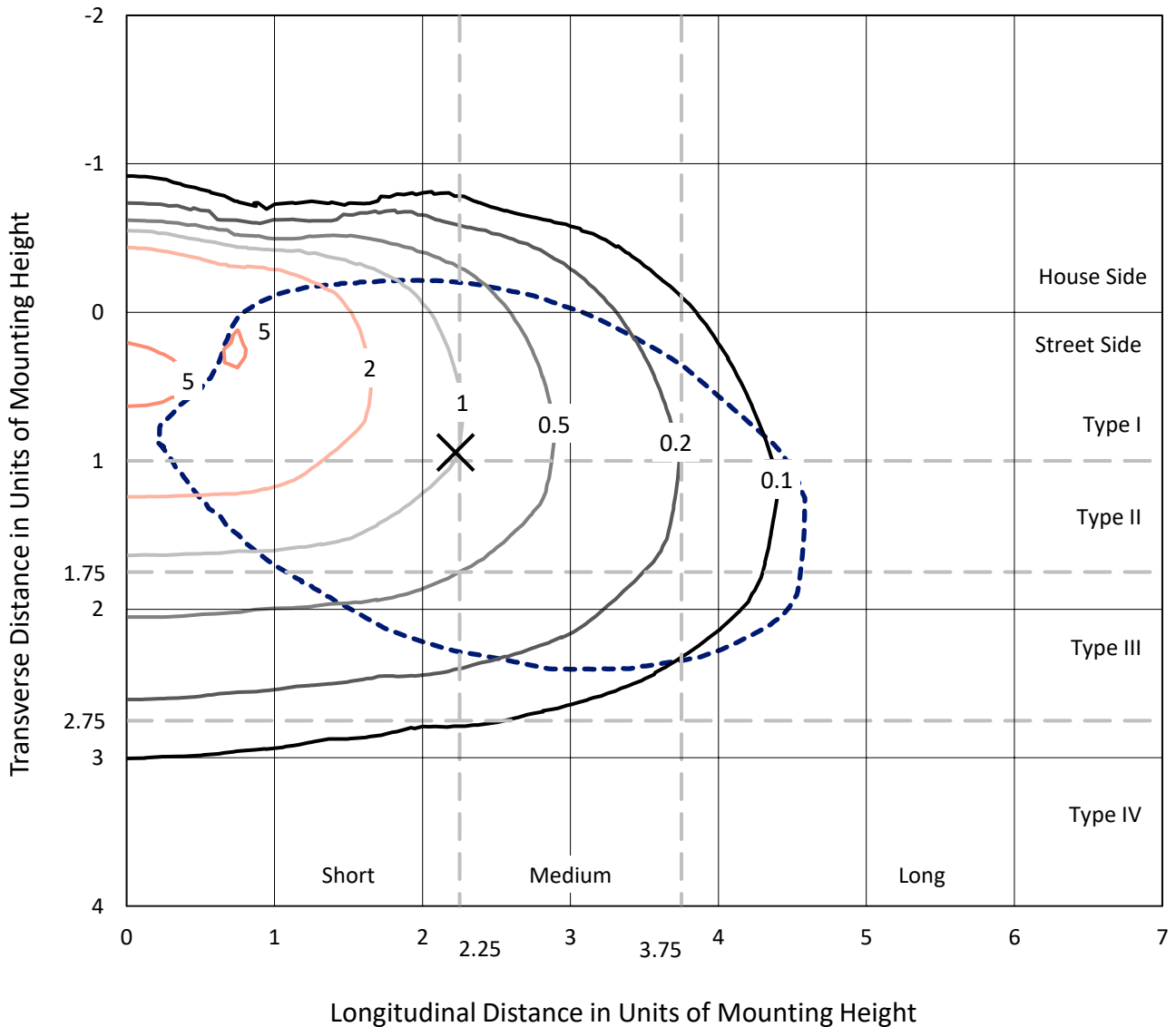
Input Watts (W): 142.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P553514
 CATALOG NUMBER: VERD-G-CA2-140-730-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

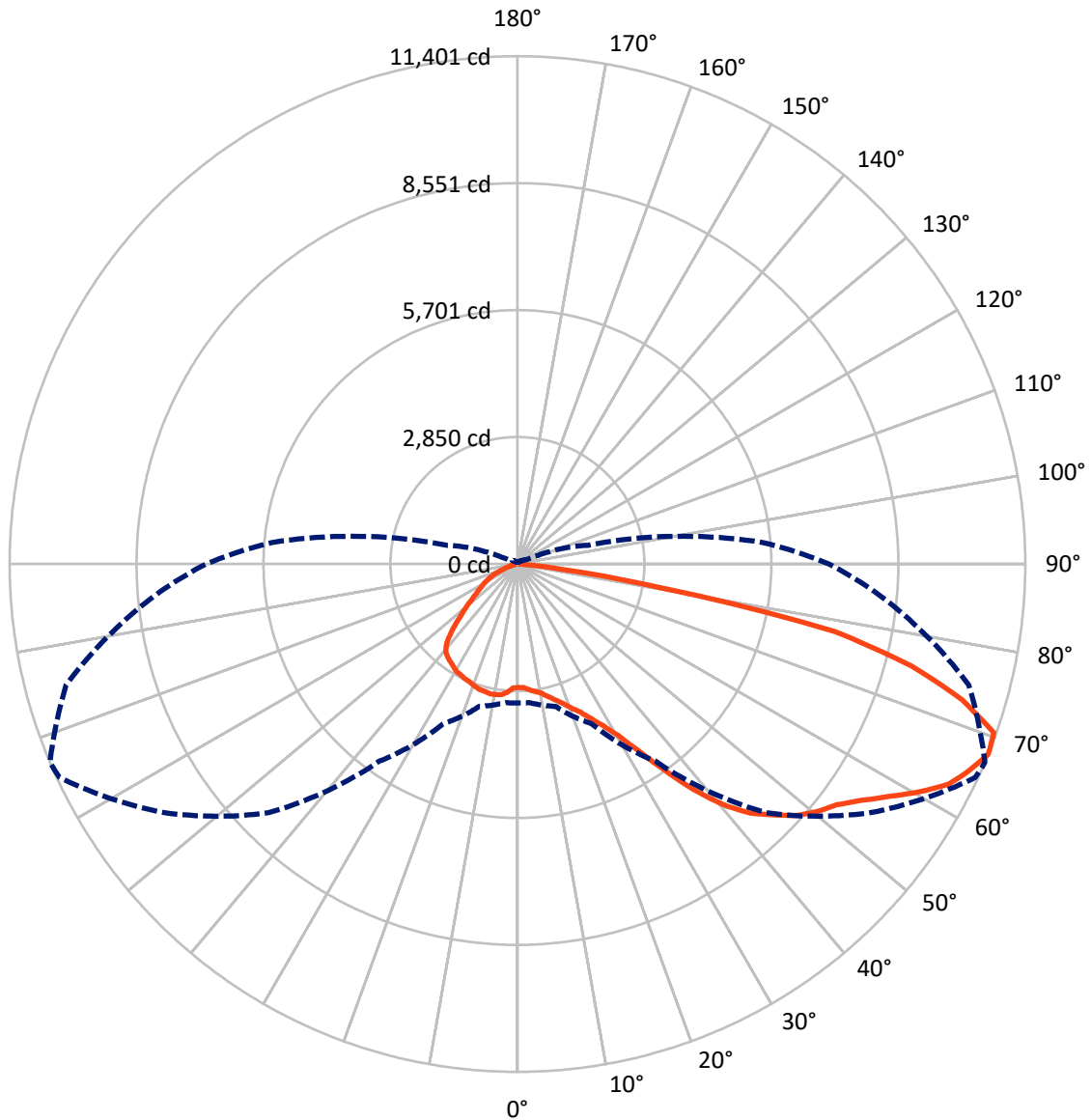
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Short - N/A

REPORT NUMBER: P553514
CATALOG NUMBER: VERD-G-CA2-140-730-U-T3-HSS

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: VERD-G-CA2-140-730-U-T3-HSS

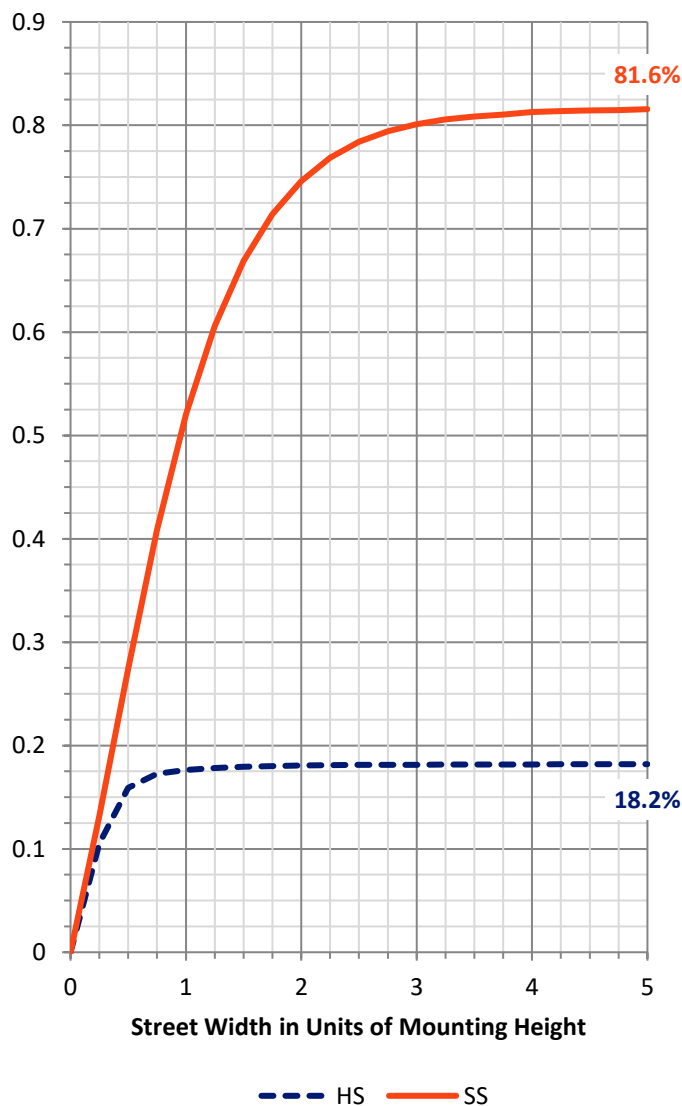
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3428.5	0.0	3428.5
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	15198.5	0.0	15198.5
	% Fixture	81.6	0.0	81.6
Total	Lumens	18627.0	0.0	18627.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.9	1.5
10°-20°	871.9	4.7
20°-30°	1486.5	8.0
30°-40°	2267.2	12.2
40°-50°	3196.2	17.2
50°-60°	3863.3	20.7
60°-70°	4068.7	21.8
70°-80°	2420.4	13.0
80°-90°	174.0	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°	18627.0	100.0
0°-180°	18627.0	100.0

Coefficient of Utilization



REPORT NUMBER: P553514

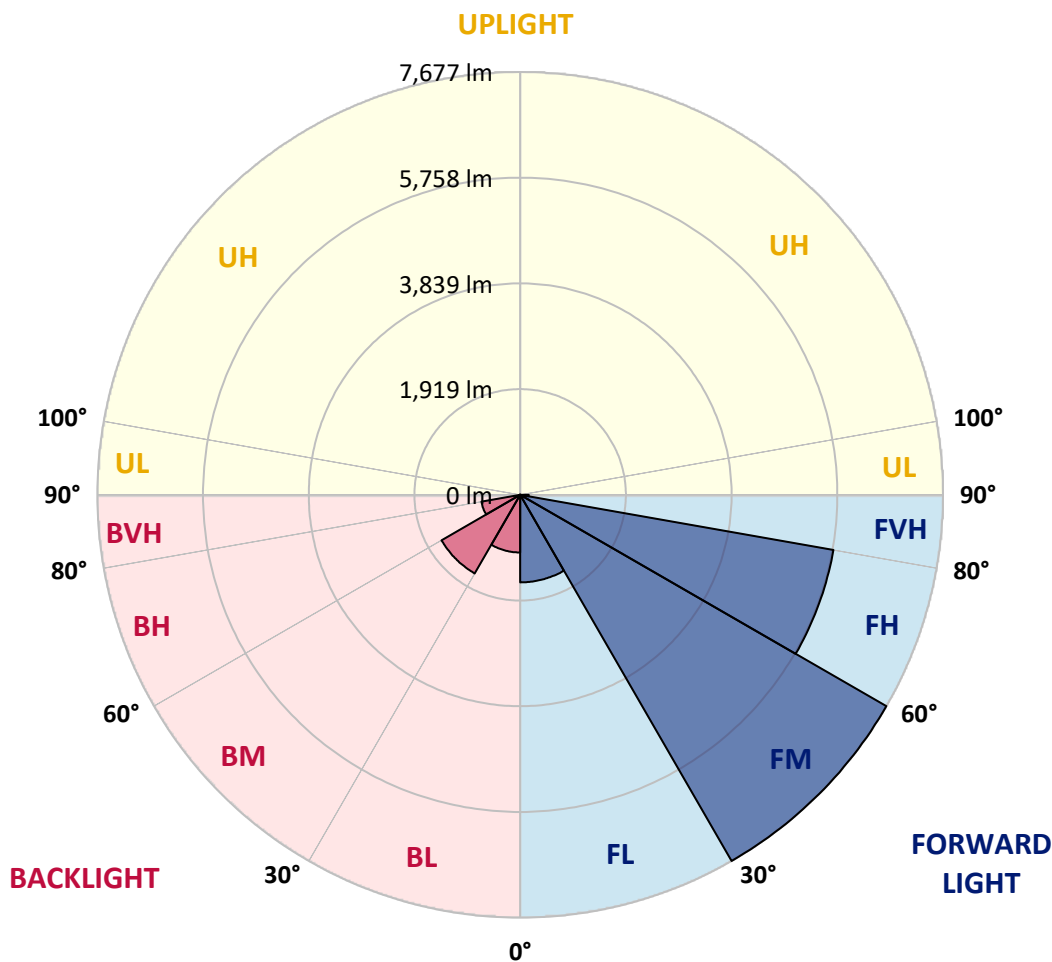
CATALOG NUMBER: VERD-G-CA2-140-730-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1590.3	8.5			
FM (30°-60°)	7677.2	41.2			
FH (60°-80°)	5775.3	31.0			G3/7500
FVH (80°-90°)	155.7	0.8			G2/225
BL (0°-30°)	1047.0	5.6	B3/2500		
BM (30°-60°)	1649.4	8.9	B2/2500		
BH (60°-80°)	713.8	3.8	B2/1000		G2/1000
BVH (80°-90°)	18.3	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





REPORT NUMBER: P553514

CATALOG NUMBER: VERD-G-CA2-140-730-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2773.0	2773.0	2773.0	2773.0	2773.0	2773.0	2773.0	2773.0	2773.0	2773.0	2773.0
2.5°	2831.6	2842.3	2820.9	2815.6	2787.6	2791.6	2786.3	2773.0	2778.3	2767.6	2774.3
5°	2940.9	2912.9	2904.9	2888.9	2863.6	2848.9	2827.6	2820.9	2835.6	2823.6	2826.3
7.5°	3056.8	3062.1	3026.2	2995.5	2950.2	2939.5	2902.2	2879.6	2894.2	2878.2	2887.6
10°	3202.0	3210.0	3171.4	3130.1	3091.4	3035.5	2988.8	2952.9	2948.9	2940.9	2954.2
12.5°	3392.6	3391.3	3348.6	3298.0	3222.0	3183.4	3094.1	3043.5	3050.1	3020.8	3018.2
15°	3613.8	3595.1	3545.8	3493.9	3399.3	3323.3	3215.4	3152.7	3163.4	3130.1	3122.1
17.5°	3829.7	3811.0	3772.4	3715.1	3628.4	3511.2	3379.3	3288.7	3286.0	3270.0	3222.0
20°	4050.9	4058.9	4006.9	3954.9	3868.3	3711.1	3561.8	3444.6	3447.2	3419.2	3326.0
22.5°	4309.4	4294.7	4232.1	4208.1	4109.5	3937.6	3771.0	3636.4	3609.8	3604.5	3443.2
25°	4555.9	4546.6	4489.3	4461.3	4378.7	4221.4	4005.6	3844.3	3840.3	3823.0	3595.1
27.5°	4751.8	4762.4	4757.1	4737.1	4646.5	4491.9	4302.7	4109.5	4112.2	4086.8	3792.3
30°	5030.3	4998.3	4986.3	5002.3	4994.3	4827.7	4626.5	4486.6	4477.3	4412.0	4041.5
32.5°	5192.8	5208.8	5224.8	5280.8	5282.1	5158.2	5027.6	4961.0	4998.3	5008.9	4661.2
35°	5342.1	5342.1	5434.0	5575.3	5624.6	5581.9	5526.0	5609.9	5683.2	5831.1	5423.4
37.5°	5475.3	5514.0	5600.6	5777.8	5939.0	5980.3	6102.9	6333.5	6422.7	6557.3	6065.6
40°	5587.3	5615.2	5725.8	5943.0	6220.2	6409.4	6638.6	7005.1	7098.3	7073.0	6422.7
42.5°	5463.3	5508.6	5685.9	6132.3	6481.4	6837.2	7137.0	7532.7	7646.0	7411.5	6798.5
45°	5396.7	5414.0	5599.2	6105.6	6673.3	7270.2	7610.0	8033.8	8033.8	7771.3	7063.7
47.5°	5263.4	5294.1	5514.0	6071.0	6877.1	7631.3	7975.1	8406.9	8434.8	8111.0	7327.5
50°	5128.9	5167.5	5416.7	6009.7	6991.7	7993.8	8285.6	8718.7	8729.3	8344.2	7560.7
52.5°	4995.6	5015.6	5294.1	5969.7	7118.3	8180.3	8553.4	8971.9	8977.2	8693.4	7817.9
55°	4757.1	4806.4	5094.2	5823.1	7111.7	8265.6	8693.4	9310.3	9362.3	9073.1	8071.1
57.5°	4533.2	4547.9	4862.4	5611.2	7003.7	8364.2	8994.5	9795.3	9846.0	9418.2	8259.0
60°	4234.7	4250.7	4589.2	5359.4	6843.8	8462.8	9376.9	10361.7	10384.3	9780.7	8400.2
62.5°	3922.9	3977.6	4256.1	4973.0	6512.0	8480.2	9700.7	10884.0	10874.7	10095.2	8493.5
65°	3556.5	3576.5	3844.3	4521.2	6004.3	8348.2	9834.0	11137.2	11159.8	10316.4	8432.2
67.5°	3116.8	3124.8	3308.6	3958.9	5403.4	7893.8	9723.4	11343.7	11401.0	10489.6	8176.3
70°	2462.5	2474.5	2643.7	3262.0	4550.6	7198.3	9536.8	11367.7	11343.7	10333.7	7787.2
72.5°	1716.3	1699.0	1864.2	2287.9	3445.9	5920.4	8636.1	10400.3	10443.0	9560.8	6973.1
75°	822.2	827.5	1155.3	1407.1	1934.8	4229.4	7187.6	8955.9	9134.4	8332.2	5680.5
77.5°	139.9	142.6	305.1	554.3	779.5	1774.9	4766.4	7133.0	7284.9	6540.0	3845.6
80°	111.9	111.9	149.2	298.5	413.1	735.6	1805.6	3162.1	3327.3	2962.2	1417.8
82.5°	76.0	80.0	106.6	174.6	146.6	287.8	655.6	1000.7	1027.4	931.4	582.3
85°	42.6	44.0	54.6	70.6	61.3	106.6	134.6	137.2	145.2	113.3	86.6
87.5°	5.3	12.0	12.0	12.0	5.3	5.3	4.0	4.0	5.3	4.0	4.0
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: P553514

CATALOG NUMBER: VERD-G-CA2-140-730-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2773.0	2773.0	2773.0	2773.0	2773.0	2773.0	2773.0	2773.0	2773.0	2773.0	2773.0
2.5°	2770.3	2754.3	2789.0	2782.3	2806.3	2802.3	2822.3	2832.9	2855.6	2884.9	2882.2
5°	2828.9	2827.6	2868.9	2888.9	2910.2	2930.2	2931.5	2951.5	2971.5	3015.5	3014.2
7.5°	2884.9	2896.9	2955.5	2956.9	2964.9	2979.5	2959.5	2966.2	2971.5	2987.5	2992.8
10°	2950.2	2972.8	2974.2	2968.9	2943.5	2942.2	2896.9	2902.2	2878.2	2896.9	2887.6
12.5°	3034.1	3015.5	3004.8	2968.9	2930.2	2878.2	2835.6	2777.0	2763.6	2763.6	2767.6
15°	3116.8	3088.8	2996.8	2939.5	2868.9	2786.3	2717.0	2650.4	2617.1	2602.4	2599.7
17.5°	3188.7	3130.1	2999.5	2924.9	2791.6	2670.4	2566.4	2459.8	2407.9	2374.5	2369.2
20°	3247.3	3184.7	3007.5	2876.9	2707.7	2529.1	2371.9	2237.3	2134.7	2058.7	2066.7
22.5°	3346.0	3246.0	3002.2	2819.6	2610.4	2378.5	2141.4	1956.1	1784.2	1741.6	1753.6
25°	3464.5	3334.0	3032.8	2785.0	2497.1	2189.3	1877.5	1663.0	1479.1	1420.5	1424.5
27.5°	3601.8	3440.6	3067.5	2727.7	2379.9	1956.1	1580.4	1315.2	1168.6	1052.7	1043.4
30°	3820.3	3585.8	3104.8	2690.4	2216.0	1696.3	1256.6	980.7	796.8	734.2	734.2
32.5°	4333.4	3880.3	3164.7	2601.1	2000.1	1405.8	916.8	642.3	479.7	423.7	425.1
35°	4985.0	4474.6	3300.6	2491.8	1745.6	1066.0	566.3	357.1	281.2	253.2	250.5
37.5°	5607.2	5020.9	3591.1	2363.9	1424.5	675.6	318.5	219.9	191.9	190.6	191.9
40°	5991.0	5452.7	3883.0	2193.3	1040.7	371.8	206.5	179.9	175.9	171.9	171.9
42.5°	6345.5	5749.8	4104.2	1932.2	621.0	225.2	181.2	163.9	161.2	154.6	154.6
45°	6633.3	5963.0	4121.5	1584.4	329.1	199.9	166.6	149.2	143.9	139.9	138.6
47.5°	6906.4	6170.9	4058.9	1213.9	234.5	185.2	155.9	137.2	130.6	133.3	131.9
50°	7090.3	6378.8	3888.3	954.1	223.9	171.9	143.9	125.3	122.6	127.9	126.6
52.5°	7288.9	6549.3	3556.5	742.2	207.9	158.6	131.9	117.3	111.9	115.9	117.3
55°	7446.1	6546.7	3312.6	579.6	197.2	147.9	123.9	110.6	101.3	101.3	99.9
57.5°	7523.4	6484.0	3116.8	455.7	185.2	137.2	115.9	97.3	86.6	83.9	82.6
60°	7519.4	6422.7	2888.9	374.4	173.2	125.3	103.9	82.6	72.0	66.6	66.6
62.5°	7476.8	6278.8	2527.8	322.5	161.2	115.9	86.6	68.0	60.0	54.6	56.0
65°	7367.5	6001.7	2084.1	274.5	149.2	111.9	73.3	60.0	52.0	46.6	46.6
67.5°	6989.1	5536.6	1625.7	230.5	137.2	93.3	64.0	50.6	44.0	38.6	38.6
70°	6453.4	4827.7	1070.0	194.5	122.6	81.3	57.3	44.0	37.3	32.0	30.6
72.5°	5500.6	3857.6	543.7	166.6	105.3	72.0	50.6	38.6	32.0	26.7	25.3
75°	4218.8	2598.4	338.5	133.3	82.6	64.0	45.3	34.6	26.7	20.0	18.7
77.5°	2515.8	1046.0	239.9	93.3	56.0	50.6	37.3	28.0	21.3	14.7	14.7
80°	794.2	462.4	162.6	64.0	36.0	34.6	28.0	20.0	14.7	10.7	10.7
82.5°	449.1	293.2	109.3	42.6	25.3	22.7	16.0	12.0	9.3	8.0	8.0
85°	74.6	58.6	33.3	16.0	12.0	10.7	6.7	4.0	2.7	1.3	2.7
87.5°	4.0	4.0	5.3	5.3	5.3	4.0	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)