

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: P233856

Luminaire Tested: **VERD-G-C02H-D-U-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-14)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-C02H-D-U-T3-7030
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1370mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18568 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B3 - U0 - G3

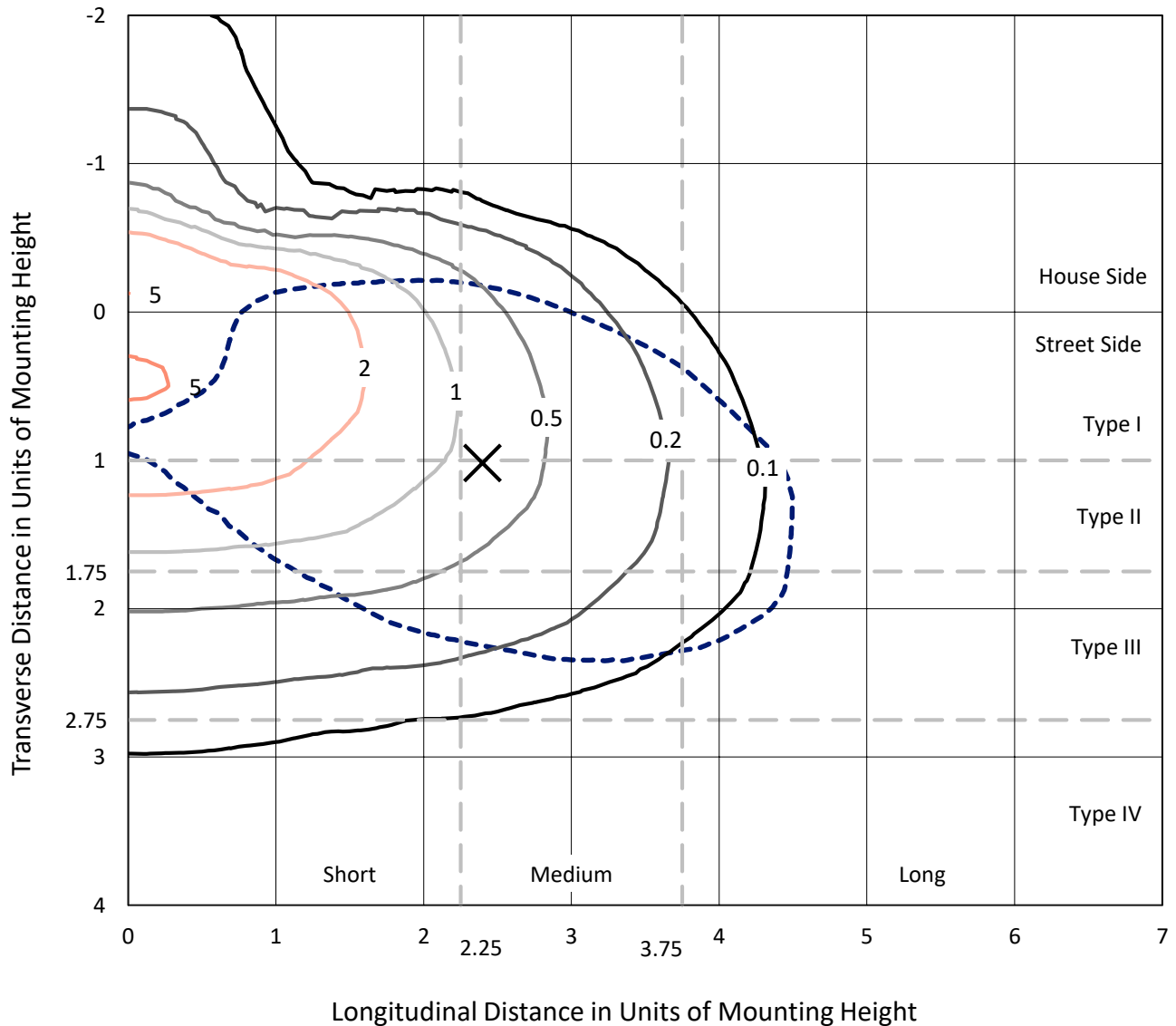
Input Watts (W): 155
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P233856
 CATALOG NUMBER: VERD-G-C02H-D-U-T3-7030

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

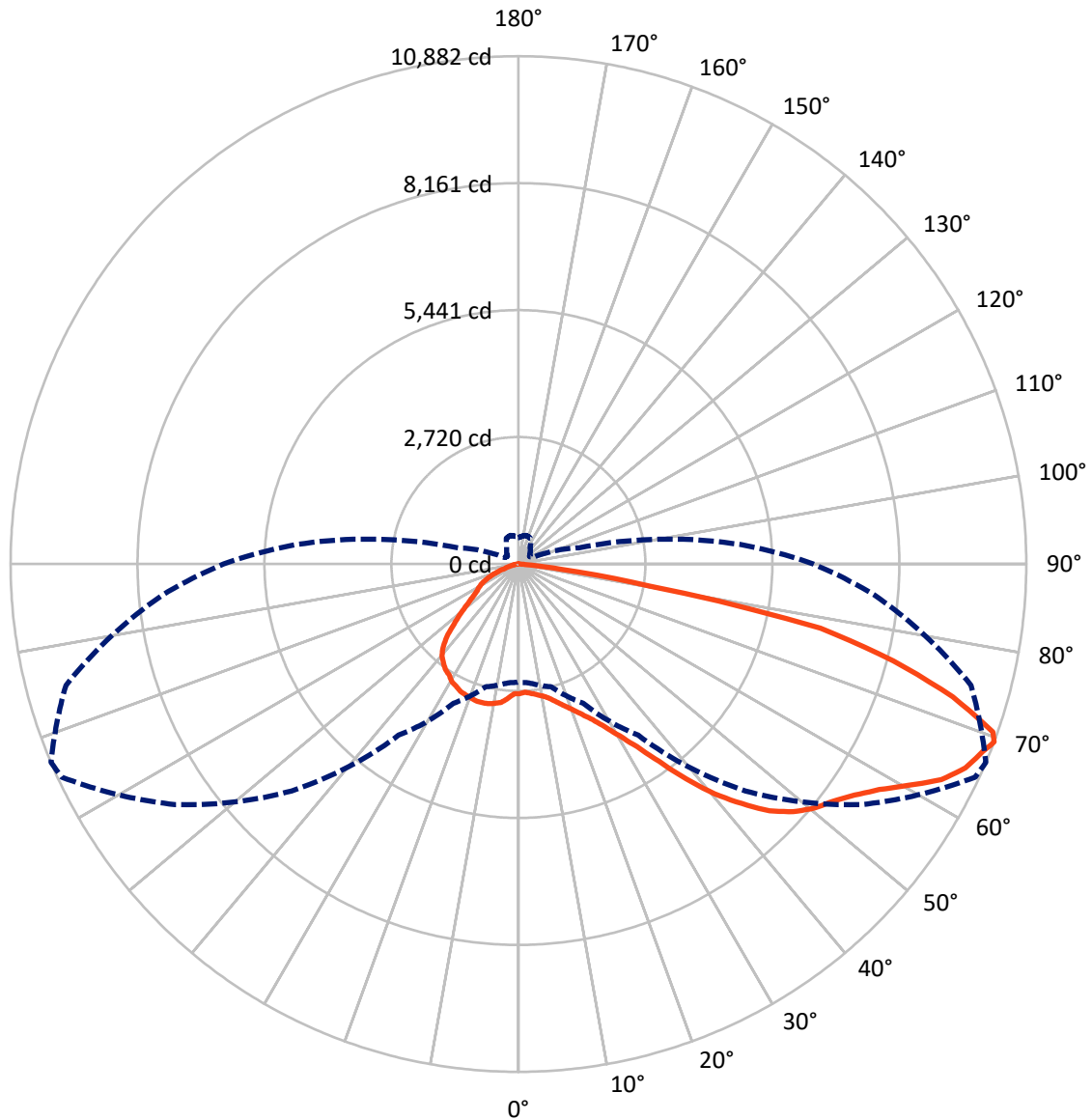


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Medium - Semi-Cutoff

REPORT NUMBER: P233856

CATALOG NUMBER: VERD-G-C02H-D-U-T3-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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CATALOG NUMBER: VERD-G-C02H-D-U-T3-7030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4181.3	0.0	4181.3
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	14386.7	0.0	14386.7
	% Fixture	77.5	0.0	77.5
Total	Lumens	18568.0	0.0	18568.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.3	1.5
10°-20°	896.5	4.8
20°-30°	1544.5	8.3
30°-40°	2297.2	12.4
40°-50°	3163.7	17.0
50°-60°	3782.0	20.4
60°-70°	3991.1	21.5
70°-80°	2391.7	12.9
80°-90°	220.0	1.2
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°	18568.0	100.0
0°-180°	18568.0	100.0



REPORT NUMBER: P233856

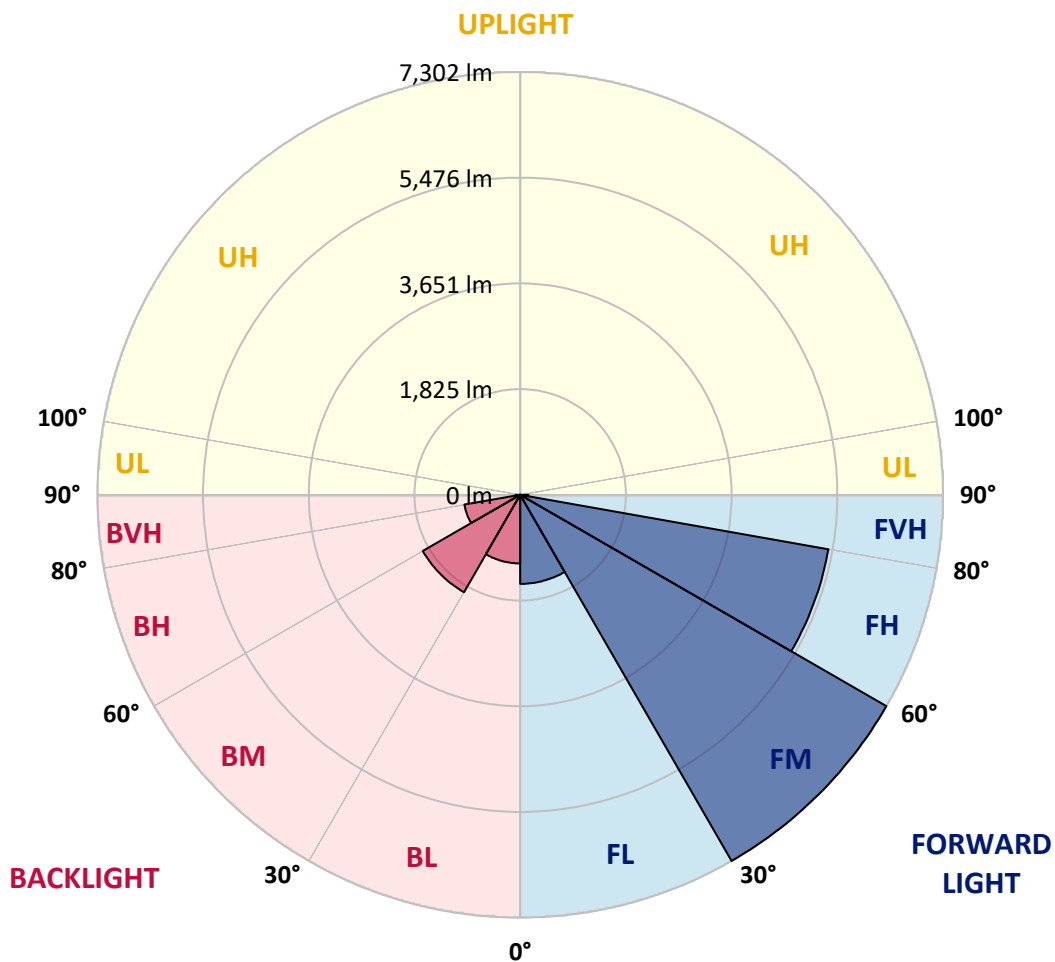
CATALOG NUMBER: VERD-G-C02H-D-U-T3-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1537.5	8.3			
FM	(30°-60°)	7301.8	39.3			
FH	(60°-80°)	5405.2	29.1			G3/7500
FVH	(80°-90°)	142.3	0.8			G2/225
BL	(0°-30°)	1184.8	6.4	B3/2500		
BM	(30°-60°)	1941.1	10.5	B2/2500		
BH	(60°-80°)	977.7	5.3	B2/1000		G2/1000
BVH	(80°-90°)	77.7	0.4			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 Medium





REPORT NUMBER: P233856

CATALOG NUMBER: VERD-G-C02H-D-U-T3-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2777.4	2777.4	2777.4	2777.4	2777.4	2777.4	2777.4	2777.4	2777.4	2777.4	2777.4
2.5°	2823.0	2821.3	2812.8	2782.5	2779.1	2775.7	2755.4	2757.1	2752.1	2757.1	2758.8
5°	2900.6	2893.9	2885.4	2853.4	2841.5	2826.4	2796.0	2794.3	2782.5	2785.8	2789.2
7.5°	2996.9	2990.1	2983.4	2946.2	2934.4	2907.4	2860.1	2836.5	2826.4	2829.7	2834.8
10°	3126.9	3115.1	3104.9	3050.9	3032.3	2986.7	2929.3	2888.8	2875.3	2880.4	2893.9
12.5°	3275.5	3260.3	3243.4	3187.7	3162.3	3091.4	3023.9	2971.6	2951.3	2963.1	2973.2
15°	3429.1	3420.7	3413.9	3348.1	3312.6	3234.9	3150.5	3084.7	3066.1	3076.2	3081.3
17.5°	3631.7	3626.6	3614.8	3547.3	3479.8	3390.3	3280.5	3211.3	3192.7	3197.8	3186.0
20°	3852.9	3839.4	3832.6	3756.7	3685.7	3562.5	3435.9	3337.9	3332.9	3334.6	3297.4
22.5°	4101.1	4085.9	4072.4	4003.2	3915.4	3771.8	3606.4	3496.6	3500.0	3503.4	3420.7
25°	4354.3	4342.5	4330.7	4264.9	4177.1	4020.0	3820.8	3697.6	3695.9	3697.6	3582.7
27.5°	4619.4	4605.9	4604.2	4550.2	4462.4	4302.0	4072.4	3947.4	3947.4	3940.7	3766.8
30°	4855.8	4869.3	4869.3	4838.9	4756.2	4595.8	4379.7	4254.7	4271.6	4258.1	4036.9
32.5°	5114.1	5110.7	5134.4	5110.7	5043.2	4894.6	4714.0	4634.6	4663.3	4707.2	4486.0
35°	5264.4	5288.0	5347.1	5380.9	5348.8	5227.2	5095.5	5156.3	5195.2	5392.7	5127.6
37.5°	5438.3	5458.5	5539.6	5622.3	5635.8	5570.0	5570.0	5769.2	5845.2	6103.5	5794.5
40°	5558.2	5578.4	5666.2	5762.5	5894.1	5939.7	6057.9	6366.9	6474.9	6648.9	6290.9
42.5°	5487.2	5497.4	5686.5	5921.2	6115.3	6334.8	6522.2	6913.9	7016.9	7138.5	6699.5
45°	5362.3	5380.9	5590.2	5968.4	6302.7	6738.3	6974.7	7428.9	7547.1	7535.3	7013.5
47.5°	5223.9	5252.6	5485.6	5907.7	6463.1	7087.8	7388.4	7861.1	7928.6	7844.2	7231.3
50°	5070.2	5119.2	5367.4	5846.9	6579.6	7393.4	7695.7	8185.3	8220.7	8048.5	7422.1
52.5°	4894.6	4926.7	5201.9	5730.4	6660.7	7596.0	7940.5	8426.7	8441.9	8301.8	7623.0
55°	4651.5	4680.2	4985.8	5575.0	6672.5	7715.9	8097.5	8685.0	8735.7	8598.9	7805.4
57.5°	4389.8	4425.3	4739.3	5350.5	6564.4	7764.9	8286.6	9017.7	9115.6	8919.7	7952.3
60°	4085.9	4131.5	4448.9	5077.0	6351.7	7840.9	8639.5	9502.2	9623.8	9282.7	8092.4
62.5°	3770.2	3795.5	4087.6	4698.8	6020.8	7879.7	8960.2	10056.0	10172.5	9625.5	8158.3
65°	3326.1	3366.6	3626.6	4244.6	5554.8	7712.5	9110.5	10442.6	10527.1	9904.1	8094.1
67.5°	2855.1	2855.1	3076.2	3700.9	4933.5	7270.2	9049.7	10628.4	10729.7	10099.9	7891.5
69°	2529.2	2554.5	2723.4	3292.3	4477.6	6876.8	8983.9	10798.9	10881.6	10037.4	7658.5
70°	2279.3	2301.3	2471.8	2995.2	4138.2	6566.1	8842.1	10722.9	10783.7	9845.0	7413.7
72.5°	1676.6	1695.1	1813.3	2086.8	3111.7	5298.1	7972.5	9694.7	9731.8	8853.9	6540.8
75°	1143.0	1153.2	1242.6	1409.8	1815.0	3704.3	6513.8	8188.7	8298.4	7678.8	5355.6
77.5°	395.1	425.5	479.5	648.3	776.7	1455.4	4415.1	6453.0	6616.8	5946.5	3746.5
80°	135.1	133.4	256.6	332.6	408.6	668.6	1396.3	2704.8	2858.4	2451.5	1349.0
82.5°	101.3	104.7	170.5	184.0	124.9	246.5	543.7	827.3	906.7	791.9	558.9
85°	64.2	62.5	76.0	79.4	57.4	104.7	131.7	133.4	138.4	119.9	121.6
87.5°	35.5	35.5	33.8	28.7	15.2	13.5	11.8	11.8	10.1	10.1	10.1
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: P233856

CATALOG NUMBER: VERD-G-C02H-D-U-T3-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2777.4	2777.4	2777.4	2777.4	2777.4	2777.4	2777.4	2777.4	2777.4	2777.4	2777.4
2.5°	2750.4	2774.0	2779.1	2785.8	2802.7	2824.7	2855.1	2855.1	2866.9	2902.3	2914.1
5°	2789.2	2817.9	2855.1	2893.9	2939.5	2988.4	3037.4	3054.3	3077.9	3125.2	3135.3
7.5°	2848.3	2880.4	2944.5	2996.9	3035.7	3084.7	3125.2	3132.0	3162.3	3206.2	3214.7
10°	2909.1	2937.8	3001.9	3029.0	3081.3	3135.3	3155.6	3165.7	3191.0	3224.8	3219.7
12.5°	2991.8	3000.3	3045.8	3064.4	3089.7	3123.5	3133.6	3133.6	3148.8	3202.9	3204.6
15°	3072.9	3072.9	3079.6	3069.5	3072.9	3089.7	3091.4	3069.5	3086.4	3113.4	3103.2
17.5°	3159.0	3135.3	3104.9	3061.0	3022.2	3020.5	2985.1	2932.7	2917.5	2956.4	2954.7
20°	3240.0	3199.5	3126.9	3027.3	2973.2	2900.6	2811.2	2780.8	2779.1	2785.8	2780.8
22.5°	3346.4	3263.6	3132.0	2995.2	2846.6	2731.8	2657.5	2554.5	2551.1	2536.0	2512.3
25°	3473.0	3354.8	3153.9	2959.7	2743.6	2595.0	2416.1	2306.3	2243.9	2257.4	2216.8
27.5°	3636.8	3493.3	3162.3	2882.1	2601.8	2350.2	2134.1	1992.3	1938.3	1914.6	1887.6
30°	3861.3	3640.2	3223.1	2816.2	2426.2	2093.6	1828.5	1622.5	1544.9	1565.1	1568.5
32.5°	4221.0	3918.7	3255.2	2686.2	2223.6	1813.3	1468.9	1246.0	1200.4	1257.8	1273.0
35°	4847.3	4351.0	3331.2	2608.6	1992.3	1485.8	1092.4	1001.2	1011.3	1060.3	1063.7
37.5°	5463.6	4898.0	3565.9	2439.7	1715.4	1100.8	847.6	798.6	847.6	910.0	918.5
40°	5895.8	5325.2	3773.5	2272.6	1327.1	796.9	646.7	587.6	658.5	758.1	776.7
42.5°	6279.1	5664.5	3920.4	2041.3	908.4	569.0	464.3	479.5	584.2	656.8	673.7
45°	6554.3	5897.5	4021.7	1740.7	579.1	430.5	415.3	464.3	563.9	621.3	626.4
47.5°	6728.2	6034.3	3947.4	1371.0	435.6	406.9	408.6	471.1	570.7	634.8	633.1
50°	6885.2	6106.9	3706.0	1087.3	413.7	390.0	417.0	489.6	592.6	651.7	648.3
52.5°	7052.4	6177.8	3412.2	852.6	396.8	381.6	427.2	501.4	592.6	629.8	624.7
55°	7195.9	6240.3	3191.0	685.5	385.0	379.9	437.3	520.0	589.2	604.4	594.3
57.5°	7270.2	6133.9	2951.3	575.7	373.1	379.9	444.0	516.6	609.5	658.5	648.3
60°	7229.7	6034.3	2757.1	535.2	356.2	378.2	447.4	553.8	748.0	793.5	790.2
62.5°	7155.4	5924.5	2485.3	481.2	337.7	381.6	445.7	587.6	861.1	845.9	803.7
65°	7003.4	5705.0	2113.9	418.7	319.1	388.3	445.7	661.8	751.3	734.4	715.9
67.5°	6679.2	5230.6	1691.8	359.6	298.8	368.1	439.0	629.8	646.7	602.8	580.8
69°	6316.2	4778.1	1338.9	327.5	287.0	357.9	437.3	607.8	636.5	589.2	563.9
70°	6032.6	4425.3	1082.3	303.9	275.2	354.6	435.6	592.6	631.5	579.1	552.1
72.5°	5024.6	3576.0	567.3	244.8	234.7	322.5	420.4	579.1	633.1	555.5	516.6
75°	3947.4	2544.4	376.5	187.4	180.7	282.0	385.0	557.2	596.0	499.8	440.7
77.5°	2434.6	1114.3	260.0	130.0	131.7	219.5	330.9	498.1	601.1	504.8	428.8
80°	707.4	430.5	165.5	87.8	81.0	130.0	260.0	428.8	570.7	518.3	467.7
82.5°	408.6	280.3	111.4	55.7	49.0	59.1	163.8	332.6	503.1	474.4	484.6
85°	92.9	77.7	40.5	27.0	27.0	33.8	55.7	192.5	347.8	406.9	459.2
87.5°	10.1	10.1	10.1	10.1	10.1	8.4	10.1	52.3	152.0	216.1	251.6
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)