

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: P233920

Luminaire Tested: **VERD-G-C02H-D-U-T2-7030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233920  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-32)  
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-T2-7030-HSS  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1370mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16743 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G2

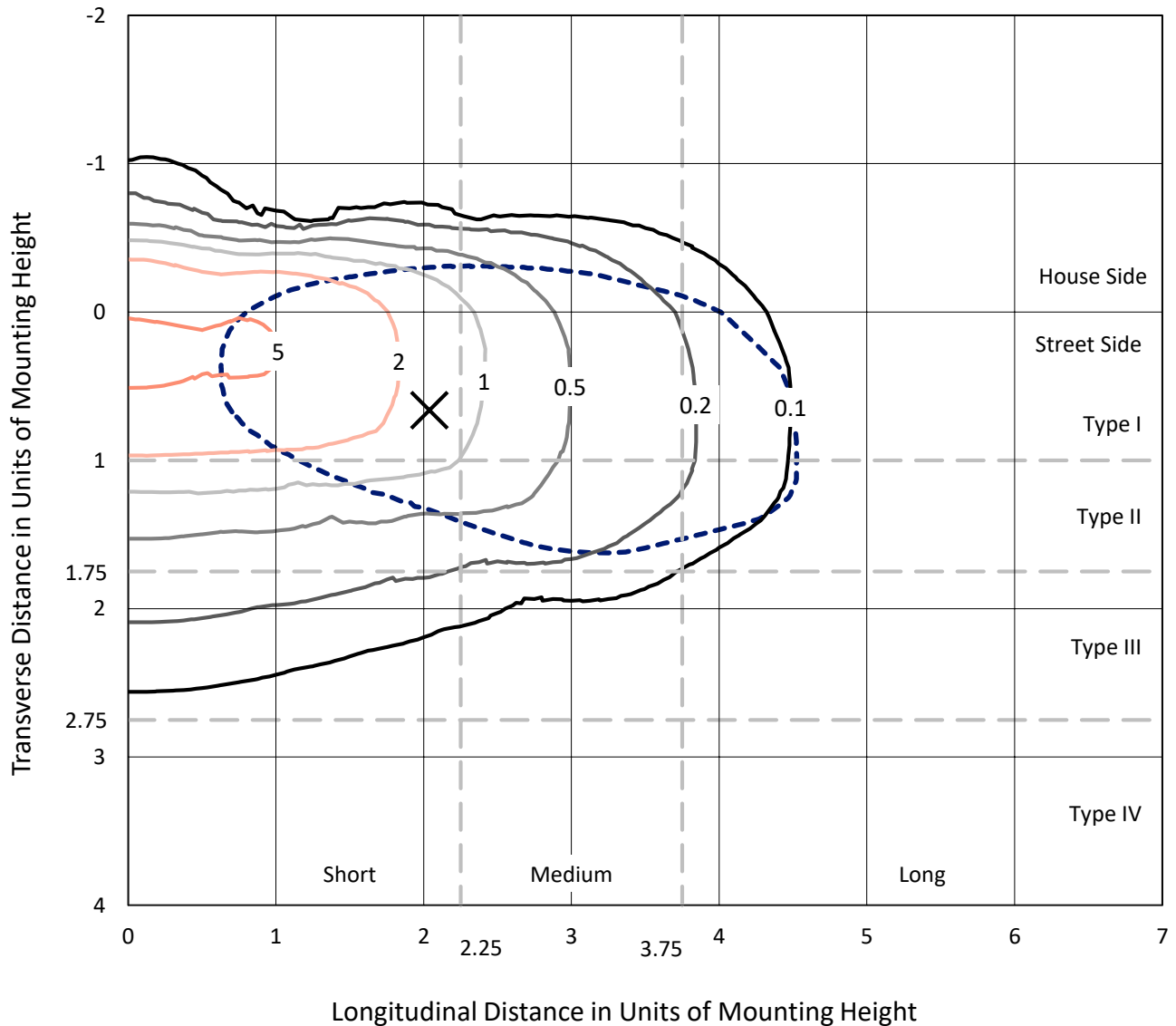
Input Watts (W): 155  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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 CATALOG NUMBER: VERD-G-C02H-D-U-T2-7030-HSS

### Iso-Footcandle Lines of Horizontal Illumination

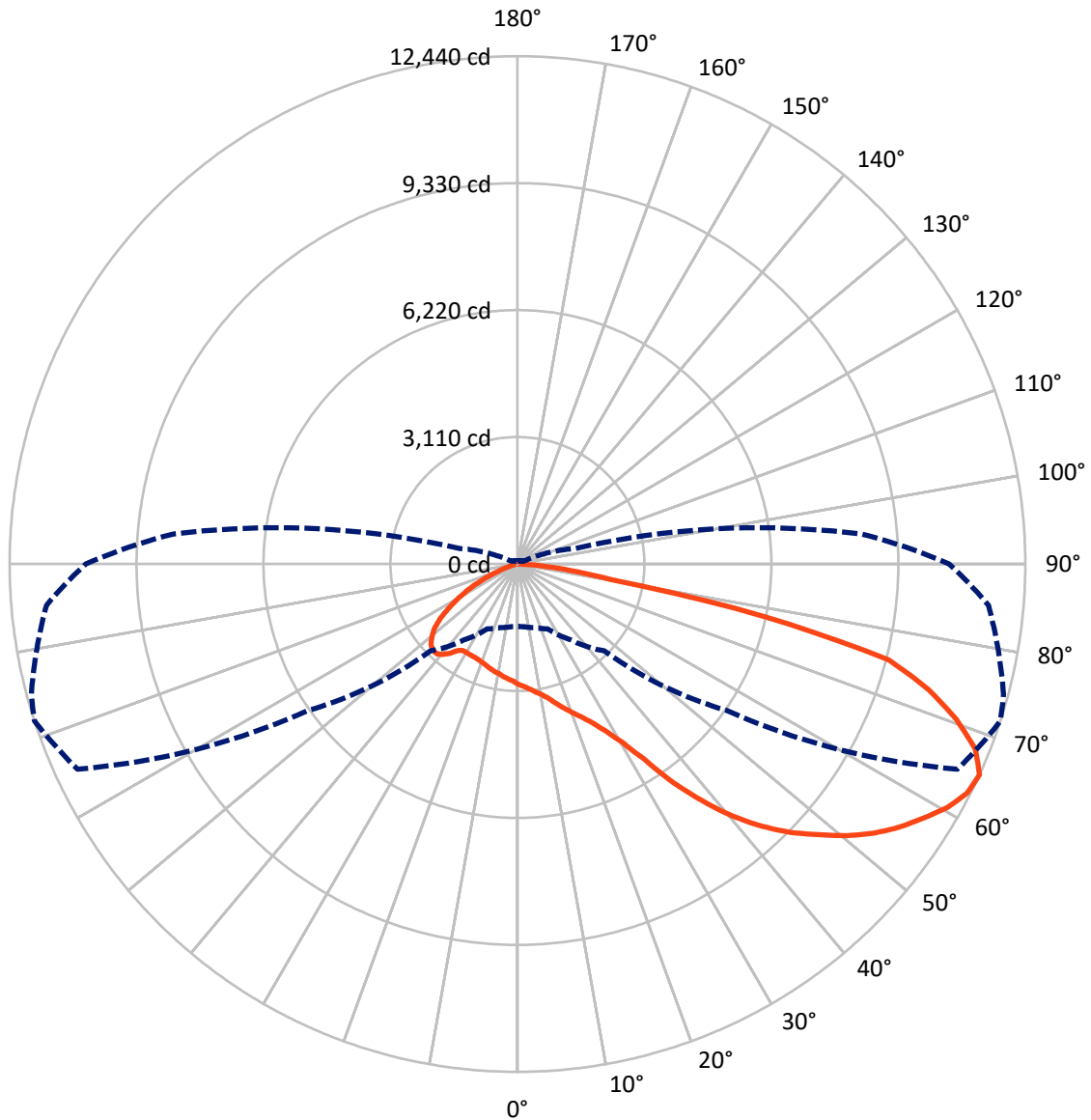
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type II - Short - Non-Cutoff

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CATALOG NUMBER: VERD-G-C02H-D-U-T2-7030-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3479.3	0.0	3479.3
	% Fixture	20.8	0.0	20.8
<b>Street Side</b>	Lumens	13263.7	0.0	13263.7
	% Fixture	79.2	0.0	79.2
<b>Total</b>	Lumens	16743.0	0.0	16743.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	282.8	1.7
10°-20°	858.5	5.1
20°-30°	1434.6	8.6
30°-40°	2122.1	12.7
40°-50°	2933.7	17.5
50°-60°	3432.9	20.5
60°-70°	3412.3	20.4
70°-80°	2043.7	12.2
80°-90°	222.5	1.3
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°	16743.0	100.0
0°-180°	16743.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P233920

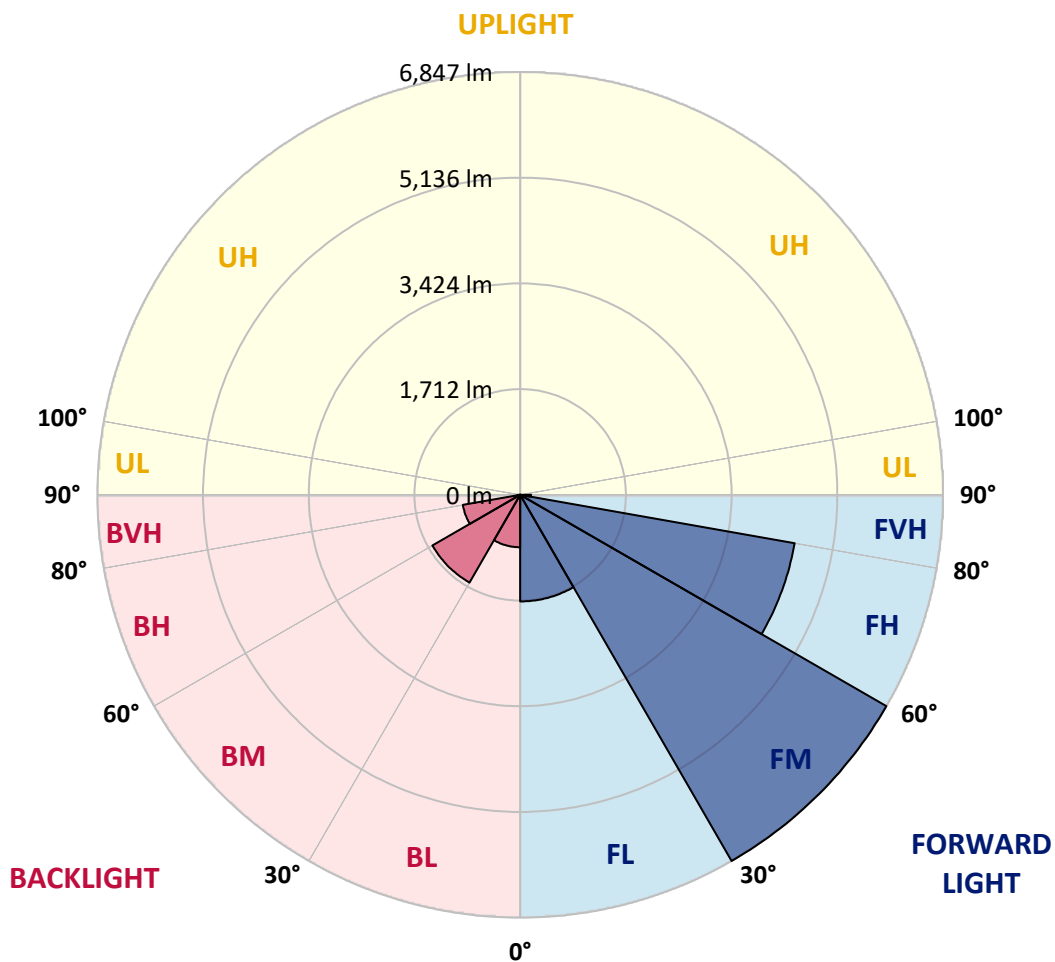
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1726.5	10.3			
FM	(30°-60°)	6847.4	40.9			
FH	(60°-80°)	4513.9	27.0			G2/5000
FVH	(80°-90°)	175.9	1.1			G2/225
BL	(0°-30°)	849.4	5.1	B2/1000		
BM	(30°-60°)	1641.3	9.8	B2/2500		
BH	(60°-80°)	942.0	5.6	B2/1000		G2/1000
BVH	(80°-90°)	46.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8
2.5°	3199.4	3202.2	3203.5	3153.0	3125.7	3094.2	3064.2	3031.4	2997.2	2984.9	2939.9
5°	3396.1	3398.9	3390.7	3344.2	3293.7	3247.2	3189.9	3131.1	3073.7	3057.4	2980.8
7.5°	3586.0	3584.7	3577.8	3519.1	3456.3	3394.8	3314.2	3234.9	3159.8	3133.9	3020.5
10°	3743.1	3745.9	3750.0	3687.1	3625.7	3551.9	3453.5	3336.0	3250.0	3209.0	3061.5
12.5°	3915.3	3907.1	3918.0	3856.5	3771.8	3704.9	3616.1	3478.1	3375.7	3323.7	3140.7
15°	4112.0	4112.0	4097.0	4046.4	3960.4	3878.4	3789.6	3662.5	3539.6	3460.4	3247.2
17.5°	4247.2	4239.0	4234.9	4191.2	4117.5	4046.4	3978.1	3848.3	3714.5	3617.5	3347.0
20°	4304.6	4307.3	4326.5	4295.0	4255.4	4213.1	4137.9	4036.9	3889.3	3785.5	3453.5
22.5°	4415.3	4418.0	4441.2	4419.4	4408.4	4397.5	4327.8	4239.0	4081.9	3982.2	3587.4
25°	4422.1	4424.8	4487.7	4523.2	4579.2	4605.2	4557.3	4480.8	4321.0	4224.0	3786.9
27.5°	4442.6	4450.8	4515.0	4613.4	4760.9	4812.8	4785.5	4782.7	4647.5	4545.0	4046.4
30°	4424.8	4433.0	4525.9	4662.5	4867.4	5020.5	5051.9	5132.5	5077.8	5001.3	4407.1
32.5°	4299.1	4329.2	4439.9	4657.1	4959.0	5236.3	5337.4	5613.3	5695.3	5703.5	5131.1
35°	4071.0	4087.4	4288.2	4594.2	5020.5	5439.8	5718.5	6228.1	6575.1	6560.1	5933.0
37.5°	3897.5	3903.0	4109.3	4487.7	5054.6	5658.4	6153.0	6968.5	7367.4	7385.2	6657.0
40°	3674.8	3714.5	3912.5	4359.3	5035.5	5842.8	6584.6	7658.4	8122.9	8103.8	7292.3
42.5°	3467.2	3490.4	3687.1	4158.4	4965.8	5983.6	7008.1	8326.4	8782.7	8719.9	7901.6
45°	3251.3	3291.0	3471.3	3898.9	4827.8	6062.8	7392.0	8960.3	9378.3	9300.5	8438.5
47.5°	3035.5	3064.2	3255.4	3661.2	4568.3	6060.1	7769.1	9554.6	9907.0	9852.4	8946.6
50°	2310.1	2372.9	2875.7	3412.5	4203.5	5945.3	8073.7	10118.8	10461.7	10377.0	9442.5
52.5°	2117.5	2138.0	2278.7	3124.3	3814.2	5672.1	8311.4	10648.8	10950.7	10853.7	9909.8
55°	2001.3	2025.9	2083.3	2539.6	3494.5	5222.6	8409.8	11143.4	11368.8	11270.4	10326.4
57.5°	1847.0	1871.6	1985.0	2187.1	3161.2	4538.2	8265.0	11581.9	11739.0	11631.1	10713.0
60°	1740.4	1751.4	1860.6	2019.1	2796.4	3847.0	7781.4	11938.4	12102.4	11973.9	11095.5
62.5°	1642.1	1654.4	1732.2	1889.3	2494.5	3340.1	7028.6	12025.9	12360.6	12260.8	11445.3
65°	1528.7	1539.6	1610.6	1750.0	2260.9	3009.5	6252.7	11892.0	12439.8	12326.4	11580.5
67.5°	1378.4	1393.4	1449.4	1575.1	1954.9	2635.2	5098.3	11644.7	12092.8	11975.3	11303.2
70°	1192.6	1199.4	1266.4	1379.8	1651.6	2286.9	3998.6	10764.9	11405.6	11275.9	10521.8
72.5°	963.1	975.4	1047.8	1166.7	1356.5	1883.9	2856.5	9301.8	10535.4	10486.3	9383.8
75°	643.4	691.3	863.4	983.6	1121.6	1471.3	1918.0	6528.6	9405.7	9443.9	8016.3
77.5°	122.9	127.0	362.0	538.2	655.7	898.9	1187.1	3207.6	6199.4	6870.2	6045.0
80°	80.6	87.4	154.4	377.0	434.4	445.4	609.3	1405.7	2336.0	2954.9	3486.3
82.5°	42.3	50.5	92.9	218.6	199.5	110.7	199.5	725.4	1295.1	1487.7	1758.2
85°	17.8	20.5	45.1	75.1	56.0	46.4	46.4	289.6	573.8	663.9	689.9
87.5°	2.7	2.7	9.6	13.7	8.2	5.5	4.1	1.4	1.4	1.4	1.4
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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CATALOG NUMBER: VERD-G-C02H-D-U-T2-7030-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8	2950.8
2.5°	2939.9	2915.3	2881.1	2841.5	2812.8	2797.8	2785.5	2752.7	2741.8	2763.6	2758.2
5°	2952.2	2923.5	2845.6	2781.4	2717.2	2677.6	2633.9	2576.5	2551.9	2565.6	2561.5
7.5°	2960.4	2924.8	2808.7	2709.0	2601.1	2525.9	2468.6	2393.4	2356.5	2370.2	2353.8
10°	2972.7	2919.4	2765.0	2632.5	2491.8	2382.5	2297.8	2210.4	2172.1	2183.0	2169.4
12.5°	3024.6	2938.5	2744.5	2566.9	2394.8	2258.2	2151.6	2058.7	2004.1	2015.0	2004.1
15°	3109.3	2976.8	2714.5	2483.6	2292.3	2136.6	2013.6	1907.1	1844.2	1859.3	1845.6
17.5°	3198.1	3023.2	2687.1	2390.7	2183.0	2009.5	1881.1	1791.0	1689.9	1699.4	1678.9
20°	3274.6	3066.9	2672.1	2303.3	2080.6	1874.3	1719.9	1658.5	1519.1	1483.6	1460.4
22.5°	3381.1	3131.1	2659.8	2232.2	1953.5	1739.1	1556.0	1441.2	1291.0	1215.8	1209.0
25°	3532.8	3226.7	2658.4	2176.2	1838.8	1597.0	1341.5	1148.9	1016.4	927.6	915.3
27.5°	3725.4	3353.8	2673.5	2120.2	1724.0	1418.0	1077.9	864.7	745.9	677.6	665.3
30°	4002.7	3520.5	2692.6	2056.0	1595.6	1185.8	803.3	636.6	538.2	489.1	479.5
32.5°	4597.0	3948.1	2721.3	1989.1	1441.2	893.4	583.3	461.7	386.6	356.6	371.6
35°	5312.8	4528.7	2849.7	1903.0	1239.1	636.6	420.8	329.2	277.3	284.2	292.3
37.5°	5938.5	5083.3	3138.0	1792.3	968.6	467.2	289.6	245.9	245.9	267.8	286.9
40°	6528.6	5583.3	3396.1	1642.1	679.0	322.4	224.0	228.1	224.0	237.7	233.6
42.5°	7086.0	6057.3	3598.3	1463.1	444.0	222.7	203.6	211.7	204.9	207.6	195.4
45°	7613.3	6547.8	3710.4	1199.4	295.1	194.0	187.2	200.8	199.5	196.7	184.4
47.5°	8101.0	6979.5	3766.4	864.7	203.6	174.9	176.2	185.8	189.9	187.2	180.3
50°	8579.2	7409.8	3715.8	517.8	183.1	159.8	169.4	169.4	177.6	162.6	157.1
52.5°	9036.8	7841.5	3556.0	314.2	168.0	148.9	157.1	154.4	158.5	143.4	140.7
55°	9467.1	8162.5	3240.4	247.3	158.5	142.1	143.4	146.2	139.3	122.9	128.4
57.5°	9922.1	8435.7	2800.5	224.0	154.4	132.5	135.2	133.9	122.9	107.9	107.9
60°	10296.4	8633.8	2359.3	203.6	151.6	129.8	120.2	117.5	101.1	92.9	91.5
62.5°	10554.6	8689.8	1928.9	181.7	143.4	120.2	107.9	99.7	84.7	76.5	73.8
65°	10575.1	8450.8	1468.6	163.9	135.2	112.0	99.7	82.0	66.9	60.1	57.4
67.5°	10155.7	7786.8	1035.5	150.3	121.6	103.8	87.4	65.6	53.3	47.8	46.4
70°	9278.6	6961.7	633.9	131.1	110.7	97.0	90.2	53.3	43.7	36.9	36.9
72.5°	8142.0	6030.0	371.6	112.0	92.9	77.9	60.1	45.1	36.9	28.7	28.7
75°	6978.1	4786.8	228.1	84.7	68.3	61.5	46.4	38.3	30.1	21.9	21.9
77.5°	5024.5	3534.1	177.6	54.6	42.3	43.7	34.2	30.1	24.6	17.8	17.8
80°	3083.3	2151.6	127.0	36.9	24.6	24.6	24.6	23.2	17.8	15.0	13.7
82.5°	1562.8	983.6	62.8	21.9	15.0	15.0	15.0	16.4	13.7	10.9	10.9
85°	549.2	276.0	19.1	10.9	9.6	9.6	8.2	8.2	6.8	5.5	5.5
87.5°	1.4	2.7	2.7	4.1	5.5	5.5	4.1	2.7	1.4	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)