

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: P233924

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233924  
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-HSS  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1370mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17205 lumens  
Efficiency: N/A  
Efficacy: 111.0 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

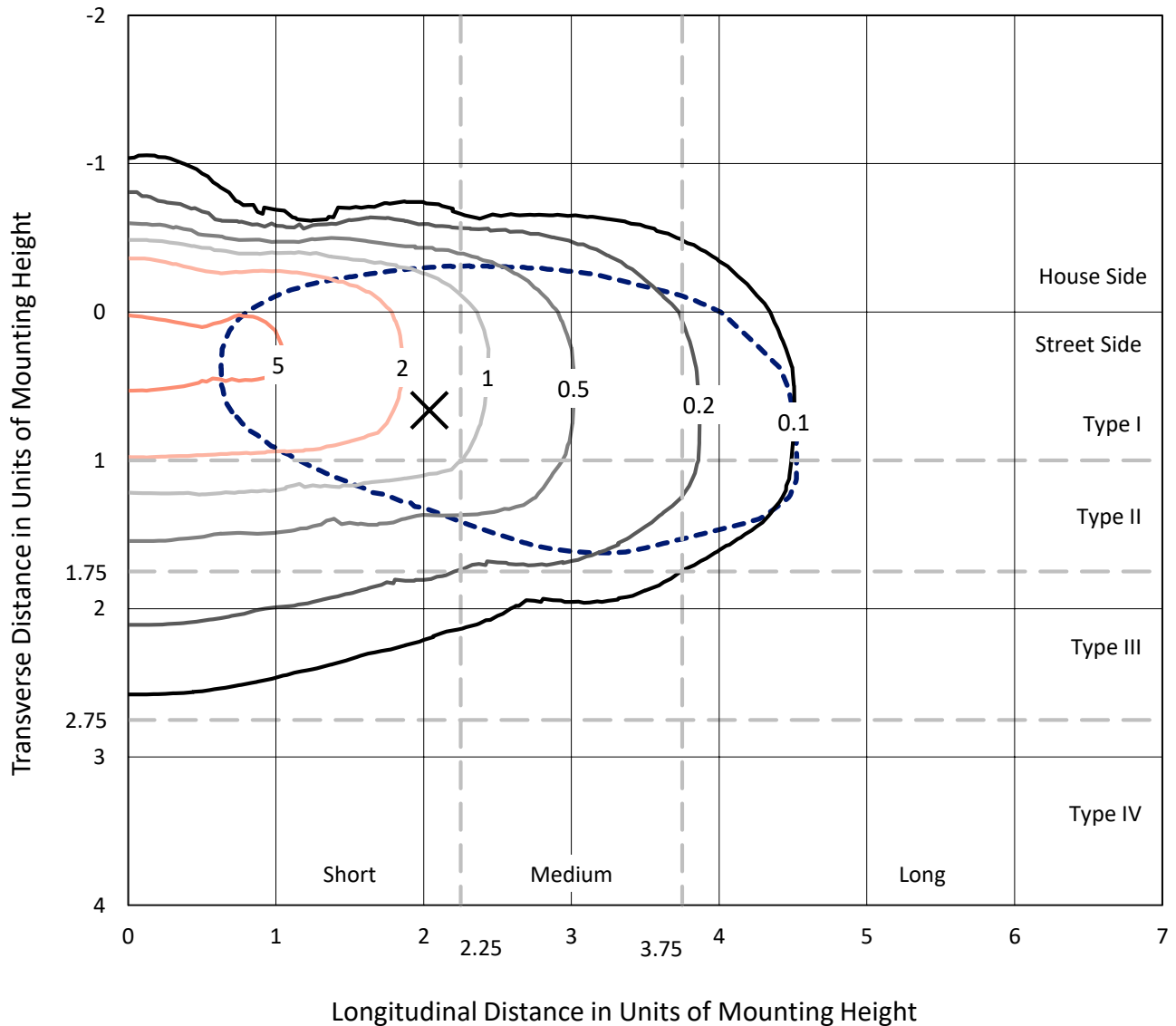


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

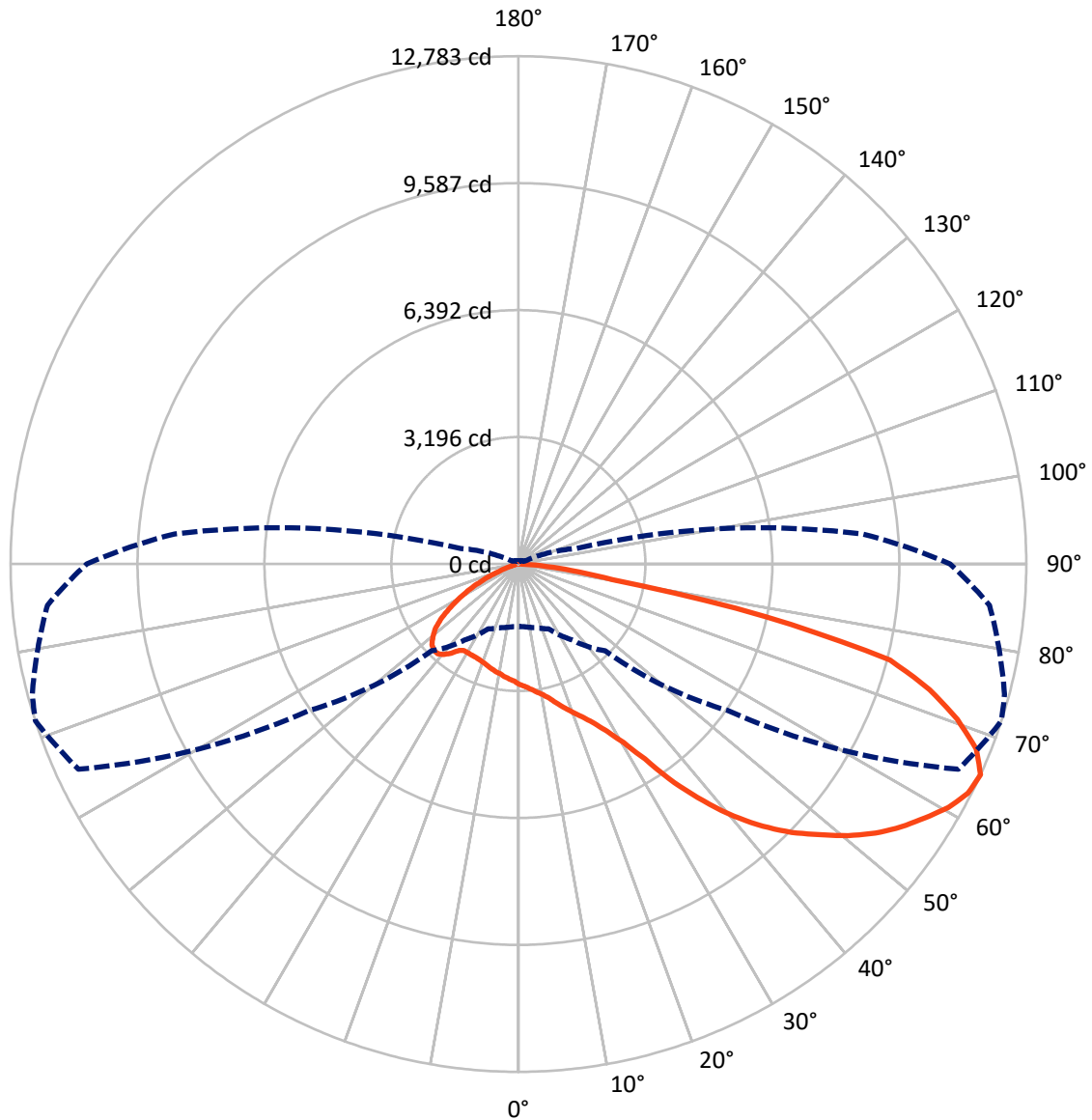


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type II - Short - Non-Cutoff

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### 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	3575.3	0.0	3575.3
	% Fixture	20.8	0.0	20.8
<b>Street Side</b>	Lumens	13629.7	0.0	13629.7
	% Fixture	79.2	0.0	79.2
<b>Total</b>	Lumens	17205.0	0.0	17205.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	290.6	1.7
10°-20°	882.2	5.1
20°-30°	1474.2	8.6
30°-40°	2180.6	12.7
40°-50°	3014.6	17.5
50°-60°	3527.7	20.5
60°-70°	3506.4	20.4
70°-80°	2100.1	12.2
80°-90°	228.6	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°	17205.0	100.0
0°-180°	17205.0	100.0



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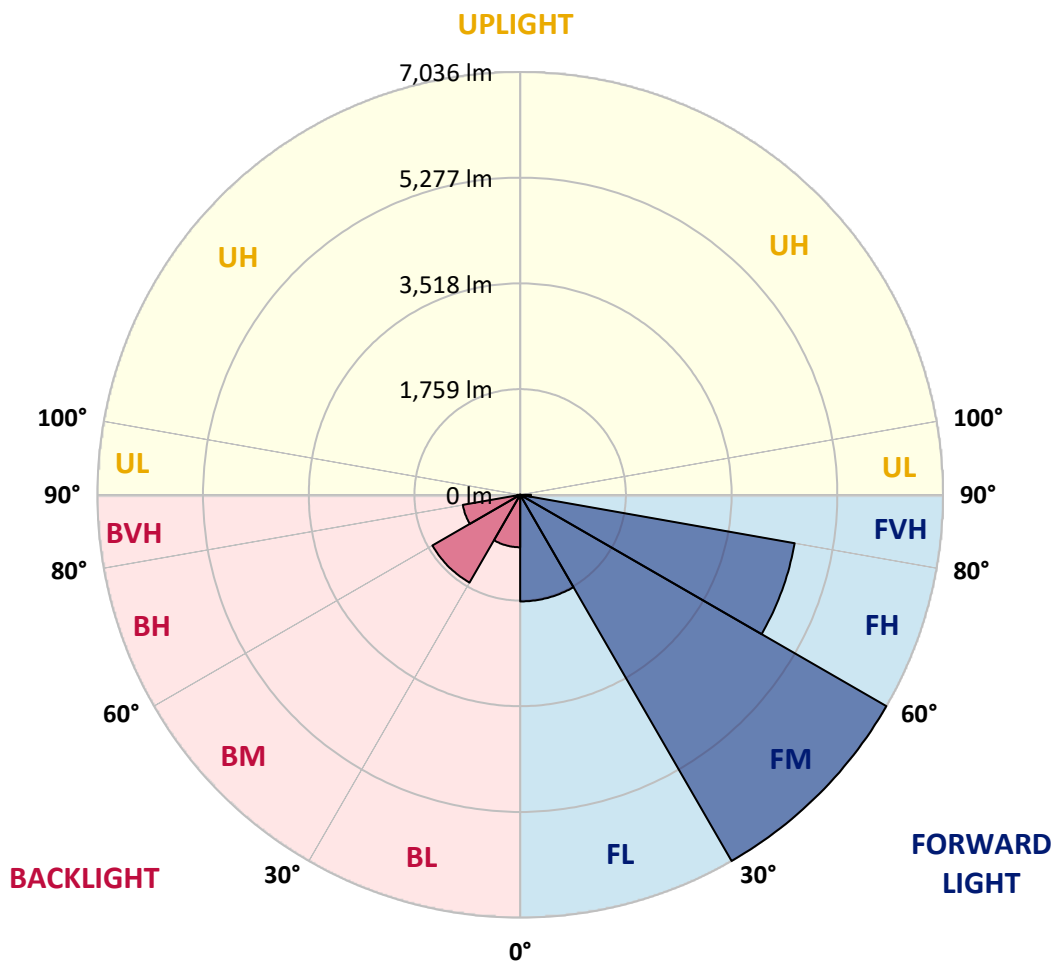
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1774.2	10.3			
FM (30°-60°)	7036.3	40.9			
FH (60°-80°)	4638.5	27.0			G2/5000
FVH (80°-90°)	180.7	1.1			G2/225
BL (0°-30°)	872.8	5.1	B2/1000		
BM (30°-60°)	1686.6	9.8	B2/2500		
BH (60°-80°)	968.0	5.6	B2/1000		G2/1000
BVH (80°-90°)	47.9	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°	3032.2	3032.2	3032.2	3032.2	3032.2	3032.2	3032.2	3032.2	3032.2	3032.2	3032.2
2.5°	3287.7	3290.5	3291.9	3240.0	3211.9	3179.6	3148.7	3115.0	3079.9	3067.3	3021.0
5°	3489.9	3492.7	3484.2	3436.5	3384.6	3336.8	3277.9	3217.5	3158.6	3141.7	3063.1
7.5°	3685.0	3683.6	3676.6	3616.2	3551.6	3488.5	3405.6	3324.2	3247.0	3220.3	3103.8
10°	3846.4	3849.2	3853.4	3788.9	3725.7	3649.9	3548.8	3428.1	3339.7	3297.5	3145.9
12.5°	4023.3	4014.9	4026.1	3962.9	3875.9	3807.1	3715.9	3574.1	3468.8	3415.5	3227.3
15°	4225.5	4225.5	4210.0	4158.1	4069.6	3985.4	3894.2	3763.6	3637.3	3555.8	3336.8
17.5°	4364.4	4356.0	4351.8	4306.9	4231.1	4158.1	4087.9	3954.5	3816.9	3717.3	3439.3
20°	4423.4	4426.2	4445.9	4413.6	4372.9	4329.3	4252.1	4148.2	3996.6	3889.9	3548.8
22.5°	4537.1	4539.9	4563.8	4541.3	4530.1	4518.8	4447.3	4356.0	4194.6	4092.1	3686.4
25°	4544.1	4546.9	4611.5	4648.0	4705.6	4732.2	4683.1	4604.5	4440.2	4340.6	3891.3
27.5°	4565.2	4573.6	4639.6	4740.6	4892.3	4945.6	4917.5	4914.7	4775.7	4670.5	4158.1
30°	4546.9	4555.3	4650.8	4791.2	5001.8	5159.0	5191.3	5274.1	5217.9	5139.3	4528.7
32.5°	4417.8	4448.7	4562.4	4785.6	5095.8	5380.8	5484.7	5768.2	5852.5	5860.9	5272.7
35°	4183.3	4200.2	4406.5	4721.0	5159.0	5590.0	5876.3	6399.9	6756.5	6741.1	6096.7
37.5°	4005.1	4010.7	4222.6	4611.5	5194.1	5814.6	6322.7	7160.8	7570.7	7589.0	6840.7
40°	3776.2	3816.9	4020.5	4479.5	5174.4	6004.1	6766.3	7869.7	8347.0	8327.4	7493.5
42.5°	3562.9	3586.7	3788.9	4273.2	5102.8	6148.7	7201.5	8556.2	9025.1	8960.5	8119.6
45°	3341.1	3381.8	3567.1	4006.5	4961.0	6230.1	7596.0	9207.6	9637.1	9557.1	8671.3
47.5°	3119.3	3148.7	3345.3	3762.2	4694.3	6227.3	7983.4	9818.2	10180.4	10124.2	9193.5
50°	2373.8	2438.4	2955.0	3506.7	4319.5	6109.4	8296.5	10398.0	10750.3	10663.3	9703.1
52.5°	2175.9	2197.0	2341.5	3210.5	3919.4	5828.6	8540.7	10942.7	11252.9	11153.2	10183.2
55°	2056.6	2081.8	2140.8	2609.7	3590.9	5366.7	8641.8	11450.8	11682.5	11581.4	10611.4
57.5°	1897.9	1923.2	2039.7	2247.5	3248.4	4663.4	8493.0	11901.5	12062.9	11952.0	11008.6
60°	1788.4	1799.7	1912.0	2074.8	2873.6	3953.1	7996.1	12267.9	12436.3	12304.4	11401.7
62.5°	1687.4	1700.0	1780.0	1941.5	2563.3	3432.3	7222.6	12357.7	12701.6	12599.1	11761.1
65°	1570.9	1582.1	1655.1	1798.3	2323.3	3092.6	6425.2	12220.1	12783.0	12666.5	11900.1
67.5°	1416.4	1431.9	1489.4	1618.6	2008.8	2707.9	5239.0	11966.0	12426.5	12305.8	11615.1
70°	1225.5	1232.5	1301.3	1417.8	1697.2	2350.0	4108.9	11062.0	11720.4	11587.0	10812.1
72.5°	989.7	1002.3	1076.7	1198.8	1394.0	1935.8	2935.4	9558.5	10826.1	10775.6	9642.7
75°	661.2	710.3	887.2	1010.7	1152.5	1511.9	1970.9	6708.8	9665.2	9704.5	8237.5
77.5°	126.3	130.6	372.0	553.1	673.8	923.7	1219.9	3296.1	6370.5	7059.7	6211.8
80°	82.8	89.8	158.6	387.5	446.4	457.6	626.1	1444.5	2400.5	3036.4	3582.5
82.5°	43.5	51.9	95.5	224.6	205.0	113.7	205.0	745.4	1330.8	1528.7	1806.7
85°	18.2	21.1	46.3	77.2	57.6	47.7	47.7	297.6	589.6	682.2	708.9
87.5°	2.8	2.8	9.8	14.0	8.4	5.6	4.2	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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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3032.2	3032.2	3032.2	3032.2	3032.2	3032.2	3032.2	3032.2	3032.2	3032.2	3032.2
2.5°	3021.0	2995.7	2960.6	2919.9	2890.4	2875.0	2862.4	2828.7	2817.4	2839.9	2834.3
5°	3033.6	3004.1	2924.1	2858.1	2792.2	2751.5	2706.5	2647.6	2622.3	2636.3	2632.1
7.5°	3042.0	3005.5	2886.2	2783.7	2672.8	2595.6	2536.7	2459.5	2421.6	2435.6	2418.8
10°	3054.7	2999.9	2841.3	2705.1	2560.5	2448.2	2361.2	2271.4	2232.0	2243.3	2229.2
12.5°	3108.0	3019.6	2820.2	2637.7	2460.9	2320.5	2211.0	2115.5	2059.4	2070.6	2059.4
15°	3195.1	3058.9	2789.4	2552.1	2355.6	2195.6	2069.2	1959.7	1895.1	1910.6	1896.5
17.5°	3286.3	3106.6	2761.3	2456.7	2243.3	2065.0	1933.0	1840.4	1736.5	1746.3	1725.3
20°	3364.9	3151.5	2745.8	2366.8	2138.0	1926.0	1767.4	1704.2	1561.0	1524.5	1500.7
22.5°	3474.4	3217.5	2733.2	2293.8	2007.4	1787.0	1598.9	1481.0	1326.6	1249.4	1242.4
25°	3630.2	3315.8	2731.8	2236.3	1889.5	1641.0	1378.5	1180.6	1044.4	953.2	940.5
27.5°	3828.2	3446.3	2747.2	2178.7	1771.6	1457.1	1107.6	888.6	766.5	696.3	683.7
30°	4113.1	3617.6	2766.9	2112.7	1639.6	1218.5	825.4	654.2	553.1	502.6	492.7
32.5°	4723.8	4057.0	2796.4	2043.9	1481.0	918.1	599.4	474.5	397.3	366.4	381.8
35°	5459.4	4653.6	2928.3	1955.5	1273.3	654.2	432.4	338.3	285.0	292.0	300.4
37.5°	6102.3	5223.6	3224.5	1841.8	995.3	480.1	297.6	252.7	252.7	275.1	294.8
40°	6708.8	5737.4	3489.9	1687.4	697.7	331.3	230.2	234.4	230.2	244.3	240.1
42.5°	7281.5	6224.5	3697.6	1503.5	456.2	228.8	209.2	217.6	210.6	213.4	200.7
45°	7823.4	6728.4	3812.7	1232.5	303.2	199.3	192.3	206.4	205.0	202.1	189.5
47.5°	8324.6	7172.0	3870.3	888.6	209.2	179.7	181.1	190.9	195.1	192.3	185.3
50°	8815.9	7614.2	3818.3	532.0	188.1	164.2	174.1	174.1	182.5	167.1	161.4
52.5°	9286.2	8057.8	3654.1	322.9	172.7	153.0	161.4	158.6	162.8	147.4	144.6
55°	9728.4	8387.7	3329.8	254.1	162.8	146.0	147.4	150.2	143.2	126.3	132.0
57.5°	10195.8	8668.5	2877.8	230.2	158.6	136.2	139.0	137.6	126.3	110.9	110.9
60°	10580.5	8872.0	2424.4	209.2	155.8	133.4	123.5	120.7	103.9	95.5	94.1
62.5°	10845.8	8929.6	1982.2	186.7	147.4	123.5	110.9	102.5	87.0	78.6	75.8
65°	10866.9	8683.9	1509.1	168.5	139.0	115.1	102.5	84.2	68.8	61.8	59.0
67.5°	10435.9	8001.7	1064.1	154.4	124.9	106.7	89.8	67.4	54.7	49.1	47.7
70°	9534.6	7153.8	651.4	134.8	113.7	99.7	92.7	54.7	44.9	37.9	37.9
72.5°	8366.7	6196.4	381.8	115.1	95.5	80.0	61.8	46.3	37.9	29.5	29.5
75°	7170.6	4918.9	234.4	87.0	70.2	63.2	47.7	39.3	30.9	22.5	22.5
77.5°	5163.2	3631.6	182.5	56.2	43.5	44.9	35.1	30.9	25.3	18.2	18.2
80°	3168.4	2211.0	130.6	37.9	25.3	25.3	25.3	23.9	18.2	15.4	14.0
82.5°	1606.0	1010.7	64.6	22.5	15.4	15.4	15.4	16.8	14.0	11.2	11.2
85°	564.3	283.6	19.7	11.2	9.8	9.8	8.4	8.4	7.0	5.6	5.6
87.5°	1.4	2.8	2.8	4.2	5.6	5.6	4.2	2.8	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)