

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: P233478

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233478  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-10)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-C02H-D-U-T2-7030  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1040mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14469 lumens  
Efficiency: N/A  
Efficacy: 120.6 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 120  
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

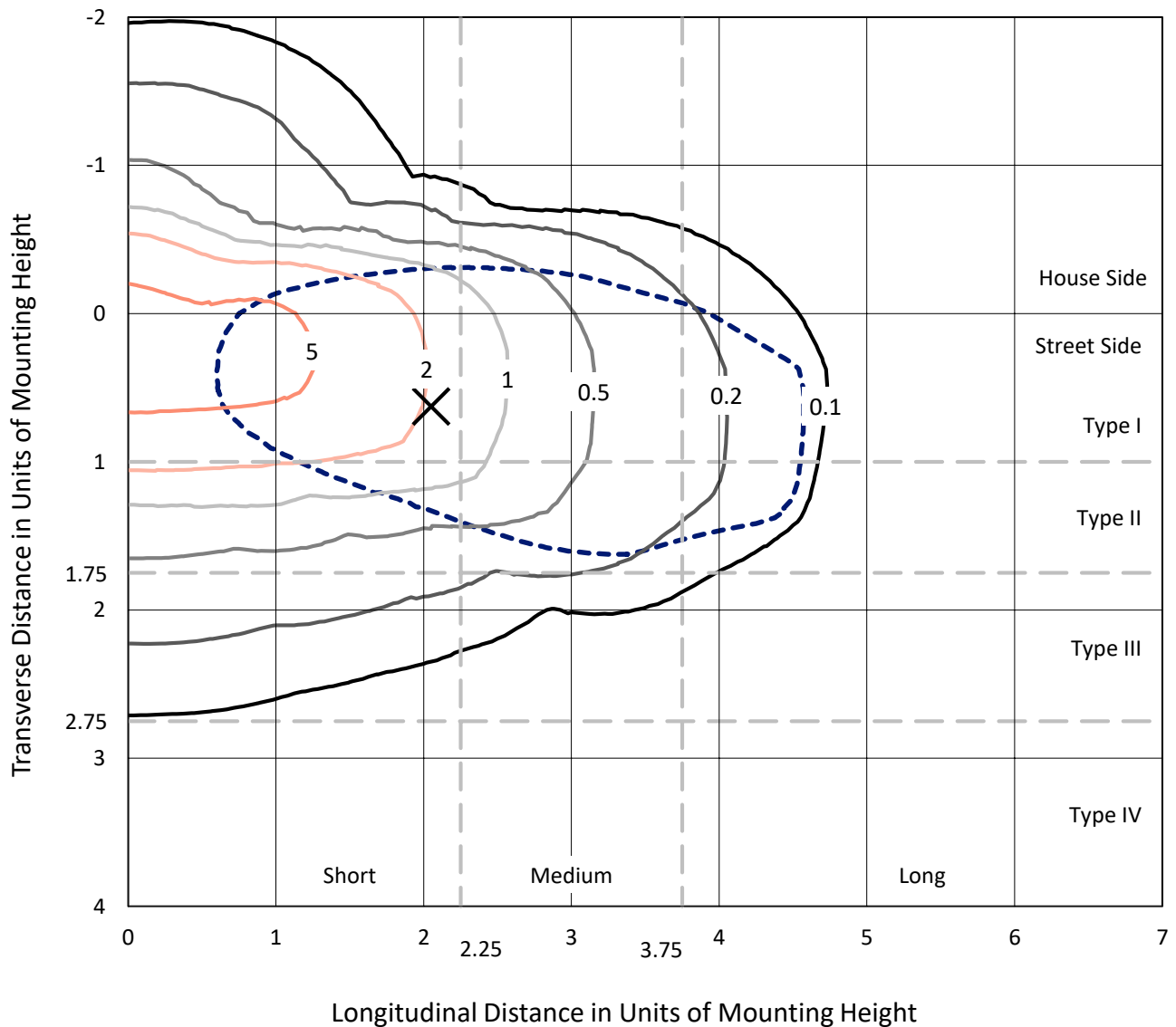


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

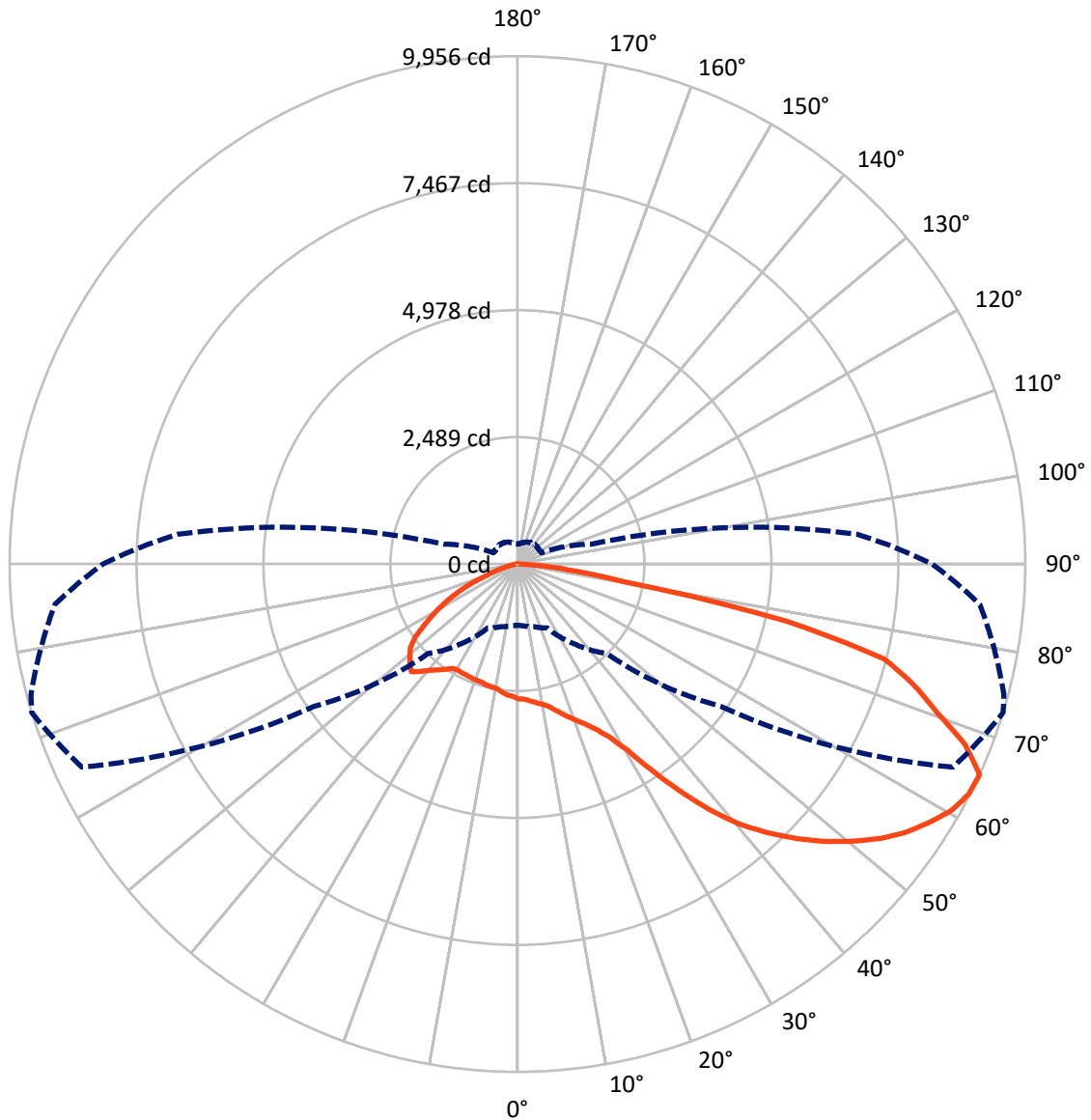


Based on 20 foot mounting height. Maximum calculated value = 7.7 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3709.0	0.0	3709.0
	% Fixture	25.6	0.0	25.6
<b>Street Side</b>	Lumens	10760.0	0.0	10760.0
	% Fixture	74.4	0.0	74.4
<b>Total</b>	Lumens	14469.0	0.0	14469.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.4	1.7
10°-20°	763.4	5.3
20°-30°	1280.5	8.8
30°-40°	1877.8	13.0
40°-50°	2537.9	17.5
50°-60°	2939.9	20.3
60°-70°	2871.8	19.8
70°-80°	1724.5	11.9
80°-90°	220.9	1.5
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°	14469.0	100.0
0°-180°	14469.0	100.0



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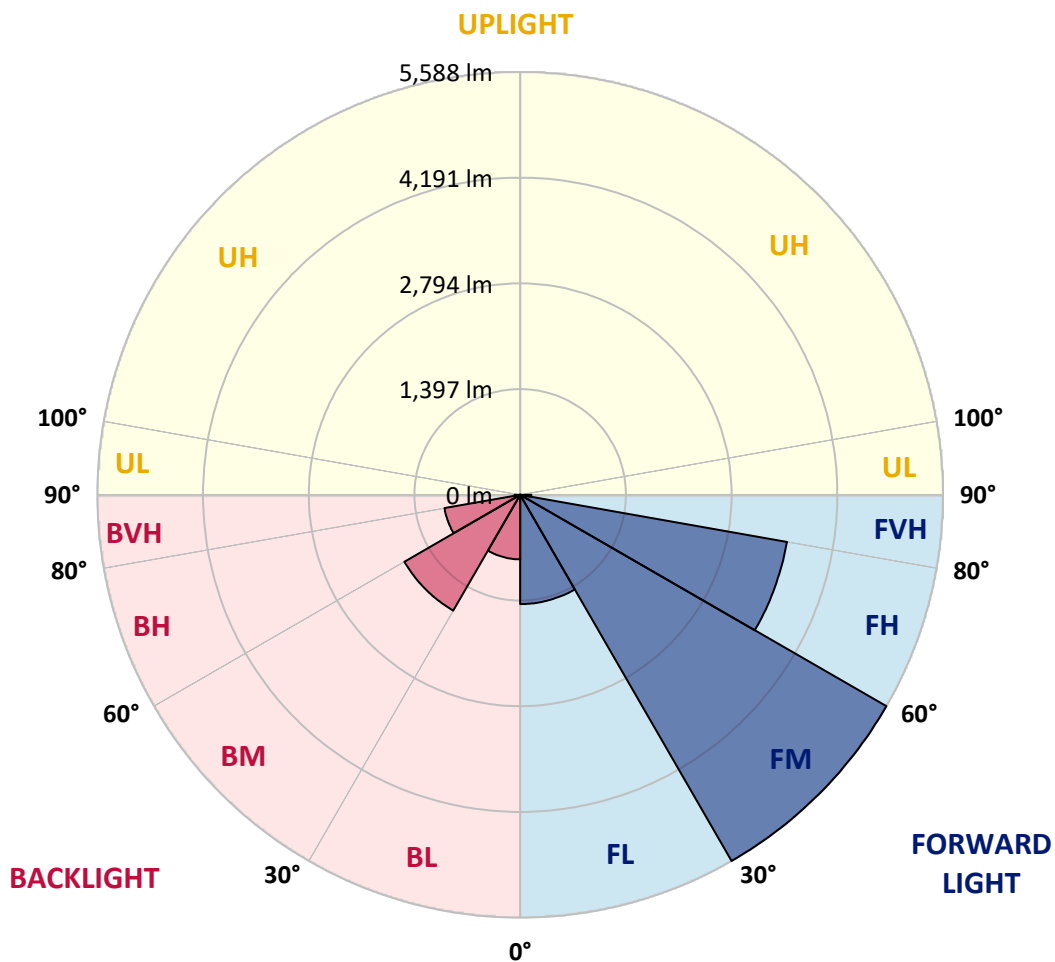
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1443.7	10.0			
FM (30°-60°)	5588.4	38.6			
FH (60°-80°)	3580.8	24.7			G2/5000
FVH (80°-90°)	147.1	1.0			G2/225
BL (0°-30°)	852.5	5.9	B2/1000		
BM (30°-60°)	1767.2	12.2	B2/2500		
BH (60°-80°)	1015.5	7.0	B3/2500		G3/2500
BVH (80°-90°)	73.8	0.5			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	2645.6	2645.6	2645.6	2645.6	2645.6	2645.6	2645.6	2645.6	2645.6	2645.6	2645.6
2.5°	2808.5	2819.0	2807.2	2773.1	2756.0	2744.2	2708.7	2677.2	2652.2	2649.6	2625.9
5°	2916.3	2932.0	2912.3	2869.0	2851.9	2826.9	2787.5	2744.2	2699.5	2690.3	2643.0
7.5°	3052.9	3055.5	3045.0	3001.6	2966.2	2913.6	2845.3	2799.3	2748.1	2733.7	2658.8
10°	3168.5	3167.2	3154.0	3112.0	3076.5	3030.5	2934.6	2859.8	2799.3	2781.0	2677.2
12.5°	3278.8	3276.2	3263.1	3219.7	3175.0	3136.9	3064.7	2963.5	2882.1	2858.5	2729.7
15°	3415.4	3408.9	3387.8	3330.0	3294.6	3249.9	3197.4	3096.2	3003.0	2970.1	2805.9
17.5°	3520.5	3519.2	3503.4	3454.8	3412.8	3364.2	3315.6	3236.8	3135.6	3098.8	2880.8
20°	3580.9	3575.7	3571.8	3533.7	3523.2	3496.9	3427.3	3366.8	3265.7	3227.6	2964.9
22.5°	3645.3	3646.6	3647.9	3628.2	3658.5	3636.1	3584.9	3511.3	3408.9	3365.5	3083.1
25°	3659.8	3662.4	3688.7	3732.0	3768.8	3809.5	3772.7	3700.5	3590.1	3544.2	3244.7
27.5°	3619.0	3629.6	3708.4	3781.9	3912.0	3964.5	3958.0	3954.0	3841.0	3795.1	3466.7
30°	3655.8	3655.8	3709.7	3835.8	4000.0	4137.9	4168.1	4252.2	4218.1	4185.2	3839.7
32.5°	3545.5	3565.2	3661.1	3837.1	4097.2	4298.2	4434.8	4668.6	4803.9	4776.4	4367.8
35°	3337.9	3364.2	3504.8	3774.1	4145.8	4487.4	4731.7	5182.3	5443.7	5476.5	5003.6
37.5°	3177.7	3200.0	3376.0	3675.5	4164.2	4664.7	5074.5	5760.3	6097.9	6080.8	5542.2
40°	2981.9	3021.3	3198.7	3558.6	4120.9	4815.8	5446.3	6291.0	6706.1	6627.3	6054.5
42.5°	2805.9	2840.1	2988.5	3372.1	4060.4	4901.1	5782.6	6837.4	7201.3	7138.3	6539.2
45°	2619.4	2649.6	2787.5	3148.8	3919.9	4943.2	6097.9	7360.3	7676.8	7605.9	6988.5
47.5°	2405.3	2446.0	2610.2	2938.6	3713.6	4916.9	6327.7	7814.8	8128.7	8076.2	7360.3
50°	1865.4	1907.4	2336.9	2741.5	3427.3	4807.9	6534.0	8269.3	8537.3	8487.4	7688.7
52.5°	1693.3	1711.7	1845.6	2515.6	3129.1	4592.4	6662.7	8643.7	8935.3	8885.4	7998.7
55°	1588.2	1601.3	1676.2	2054.5	2875.5	4245.6	6678.5	9032.5	9270.3	9204.6	8328.4
57.5°	1480.5	1494.9	1577.7	1772.1	2620.7	3703.1	6511.7	9362.2	9542.2	9471.3	8643.7
60°	1389.8	1397.7	1479.1	1613.1	2333.0	3164.5	6082.1	9586.9	9793.1	9701.1	8952.4
62.5°	1307.1	1317.6	1376.7	1498.8	2091.3	2761.2	5483.1	9588.2	9931.0	9874.5	9108.7
65°	1199.3	1215.1	1272.9	1383.3	1895.6	2485.4	4863.1	9421.3	9956.0	9871.9	9100.8
67.5°	1074.5	1094.3	1146.8	1234.8	1635.5	2191.1	3998.7	9202.0	9468.6	9454.2	8725.1
70°	949.8	949.8	1008.9	1079.8	1357.0	1875.9	3159.3	8420.4	8725.1	8747.4	8051.2
72.5°	801.3	803.9	849.9	911.7	1092.9	1539.6	2301.5	7198.7	8134.0	7863.4	7261.7
75°	672.6	670.0	717.2	768.5	889.3	1212.5	1501.5	5288.7	7433.8	7494.2	6390.8
77.5°	357.3	344.2	404.6	445.3	521.5	673.9	832.8	2652.2	5383.2	5501.5	5116.6
80°	101.1	102.5	268.0	299.5	342.9	333.7	386.2	1011.5	2129.4	2400.0	2983.2
82.5°	60.4	69.6	152.4	178.7	134.0	86.7	147.1	562.2	1102.1	1234.8	1480.5
85°	31.5	34.2	53.9	67.0	51.2	43.3	44.7	236.5	536.0	545.2	591.1
87.5°	14.4	14.4	19.7	21.0	13.1	7.9	5.3	3.9	3.9	2.6	2.6
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°	2645.6	2645.6	2645.6	2645.6	2645.6	2645.6	2645.6	2645.6	2645.6	2645.6	2645.6
2.5°	2607.6	2620.7	2598.4	2581.3	2568.1	2560.3	2551.1	2528.7	2535.3	2544.5	2543.2
5°	2620.7	2627.3	2587.8	2534.0	2484.1	2448.6	2425.0	2389.5	2389.5	2403.9	2403.9
7.5°	2632.5	2623.3	2543.2	2452.5	2396.1	2367.2	2329.1	2291.0	2284.4	2294.9	2296.2
10°	2639.1	2599.7	2488.0	2403.9	2330.4	2271.3	2222.7	2179.3	2178.0	2192.4	2195.1
12.5°	2668.0	2591.8	2484.1	2368.5	2258.1	2195.1	2137.3	2088.7	2071.6	2072.9	2075.5
15°	2712.6	2623.3	2478.8	2319.9	2200.3	2116.3	2032.2	1970.4	1954.7	1975.7	1983.6
17.5°	2766.5	2674.5	2453.9	2275.2	2129.4	2028.2	1944.2	1889.0	1839.1	1816.7	1812.8
20°	2837.4	2717.9	2467.0	2209.5	2061.1	1925.8	1820.7	1753.7	1711.7	1709.0	1706.4
22.5°	2930.7	2766.5	2469.6	2166.2	1953.4	1812.8	1682.8	1644.7	1569.8	1542.2	1554.0
25°	3054.2	2840.1	2463.1	2120.2	1870.6	1681.4	1525.1	1455.5	1427.9	1396.4	1399.0
27.5°	3213.1	2957.0	2480.1	2059.8	1735.3	1521.2	1346.5	1271.6	1229.6	1203.3	1207.2
30°	3536.3	3134.3	2478.8	2002.0	1610.5	1355.7	1158.6	1108.7	1066.7	1043.0	1054.8
32.5°	3996.1	3519.2	2534.0	1924.5	1468.6	1133.7	1001.0	944.5	909.0	882.8	889.3
35°	4564.9	3938.3	2675.9	1819.4	1307.1	964.2	873.6	803.9	760.6	750.1	746.1
37.5°	5092.9	4308.7	2809.9	1749.8	1121.8	870.9	756.6	687.0	648.9	662.1	662.1
40°	5564.5	4800.0	2960.9	1638.1	953.7	764.5	626.6	595.1	575.4	597.7	605.6
42.5°	5920.5	5271.6	3165.8	1491.0	817.1	638.4	536.0	558.3	566.2	581.9	578.0
45°	6361.9	5540.9	3368.1	1354.4	697.5	532.0	517.6	563.5	581.9	596.4	589.8
47.5°	6767.8	5749.7	3327.4	1102.1	587.2	514.9	526.8	563.5	595.1	618.7	614.8
50°	7117.2	6011.2	3249.9	856.5	563.5	530.7	536.0	549.1	596.4	612.2	612.2
52.5°	7335.3	6269.9	3154.0	692.3	580.6	550.4	541.2	539.9	571.4	583.3	572.7
55°	7598.0	6537.9	2905.7	642.4	587.2	563.5	555.7	543.8	553.0	543.8	549.1
57.5°	7889.6	6802.0	2524.8	627.9	583.3	559.6	601.6	538.6	533.3	500.5	492.6
60°	8145.8	6905.7	2191.1	595.1	562.2	549.1	559.6	532.0	505.7	462.4	445.3
62.5°	8241.7	6896.5	1852.2	560.9	530.7	533.3	532.0	512.3	488.7	445.3	434.8
65°	8126.1	6686.4	1501.5	520.2	505.7	516.3	503.1	474.2	434.8	399.3	390.1
67.5°	7734.6	6150.4	1115.3	466.3	465.0	484.7	475.5	436.1	392.8	365.2	365.2
70°	6985.9	5491.0	722.5	387.5	416.4	450.6	450.6	408.5	352.1	328.4	335.0
72.5°	6166.2	4725.1	467.7	287.7	328.4	408.5	405.9	377.0	324.5	294.3	295.6
75°	5341.2	3749.1	302.1	198.4	212.8	348.1	359.9	307.4	252.2	215.4	208.9
77.5°	4060.4	2820.4	191.8	115.6	135.3	212.8	273.2	256.2	257.5	314.0	311.3
80°	2497.2	1699.8	139.2	56.5	67.0	139.2	220.7	244.3	342.9	225.9	207.6
82.5°	1250.6	794.7	73.6	34.2	38.1	61.7	131.4	292.9	249.6	149.8	141.9
85°	467.7	214.1	22.3	17.1	21.0	31.5	53.9	268.0	158.9	119.5	116.9
87.5°	2.6	3.9	3.9	5.3	7.9	9.2	19.7	127.4	80.1	57.8	55.2
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)