

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: P510088

Luminaire Tested: **VERD-M-CA4-200-740-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510088
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-7)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA4-200-740-U-T4-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 4000K, 910mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25871 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

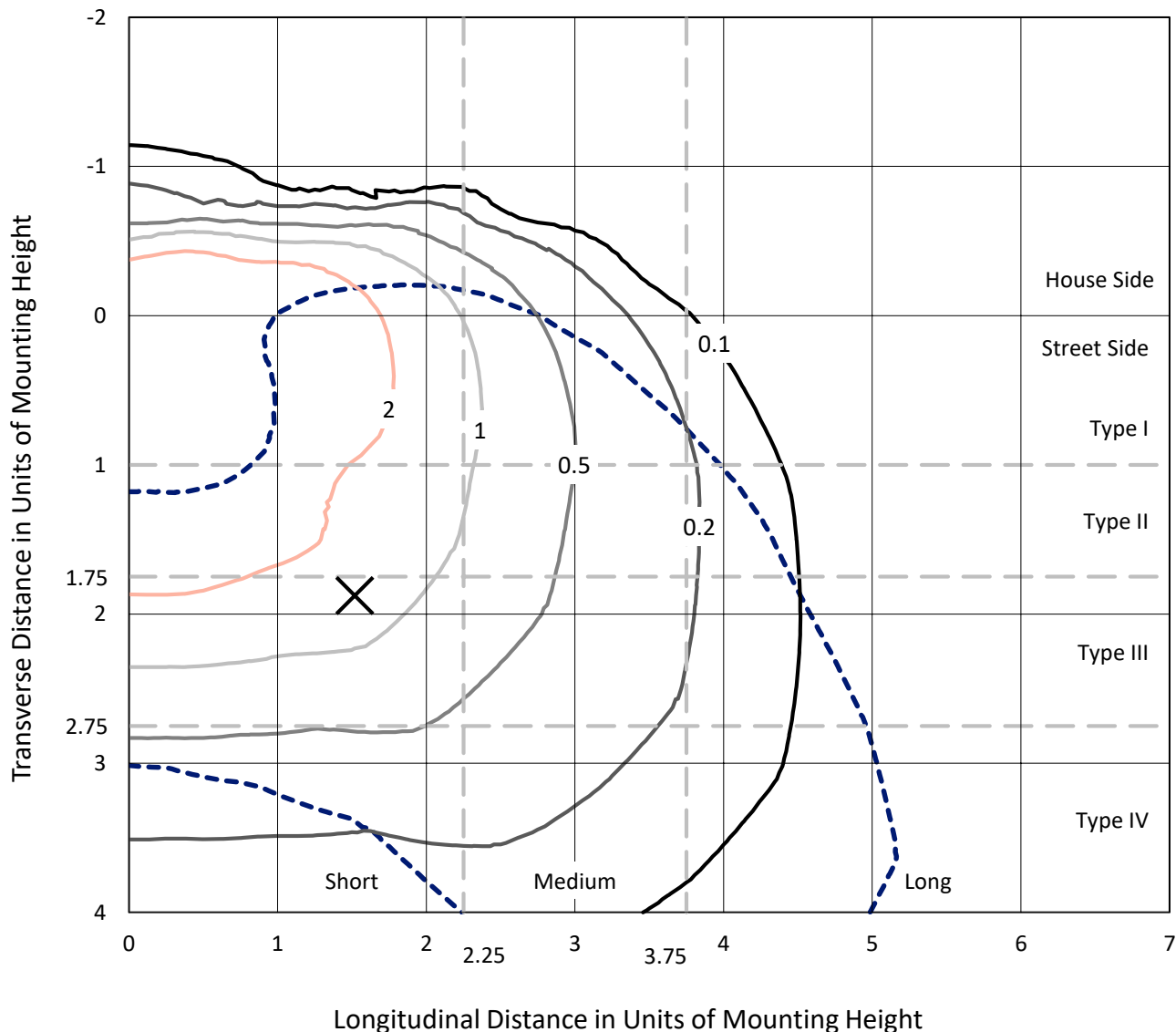
Input Watts (W): 201.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

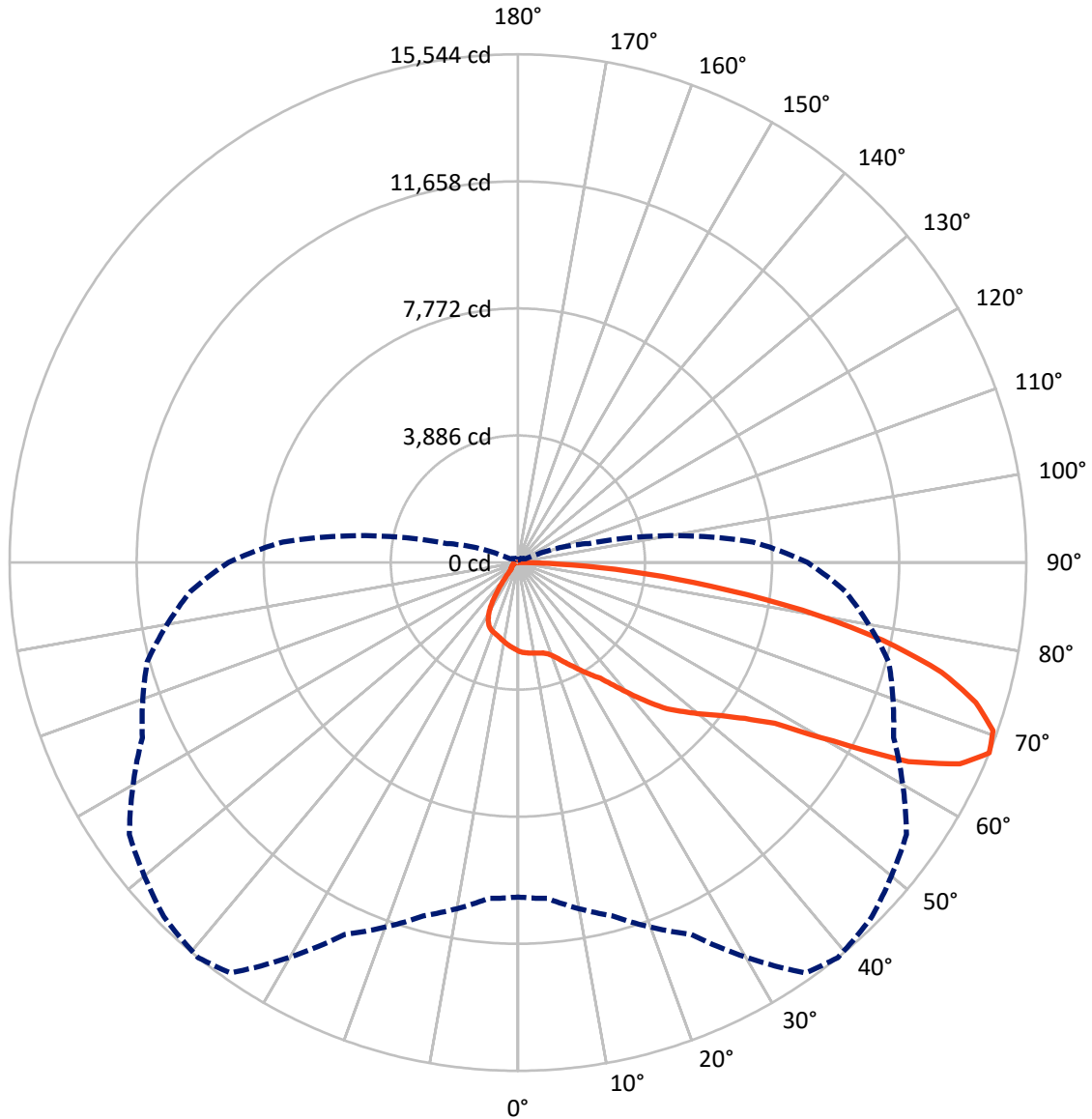
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4154.3	0.0	4154.3
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	21716.8	0.0	21716.8
	% Fixture	83.9	0.0	83.9
Total	Lumens	25871.0	0.0	25871.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.8	1.0
10°-20°	761.2	2.9
20°-30°	1348.5	5.2
30°-40°	2159.9	8.3
40°-50°	3465.0	13.4
50°-60°	5064.8	19.6
60°-70°	6749.1	26.1
70°-80°	5064.6	19.6
80°-90°	1002.1	3.9
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°	25871.0	100.0
0°-180°	25871.0	100.0

Coefficient of Utilization



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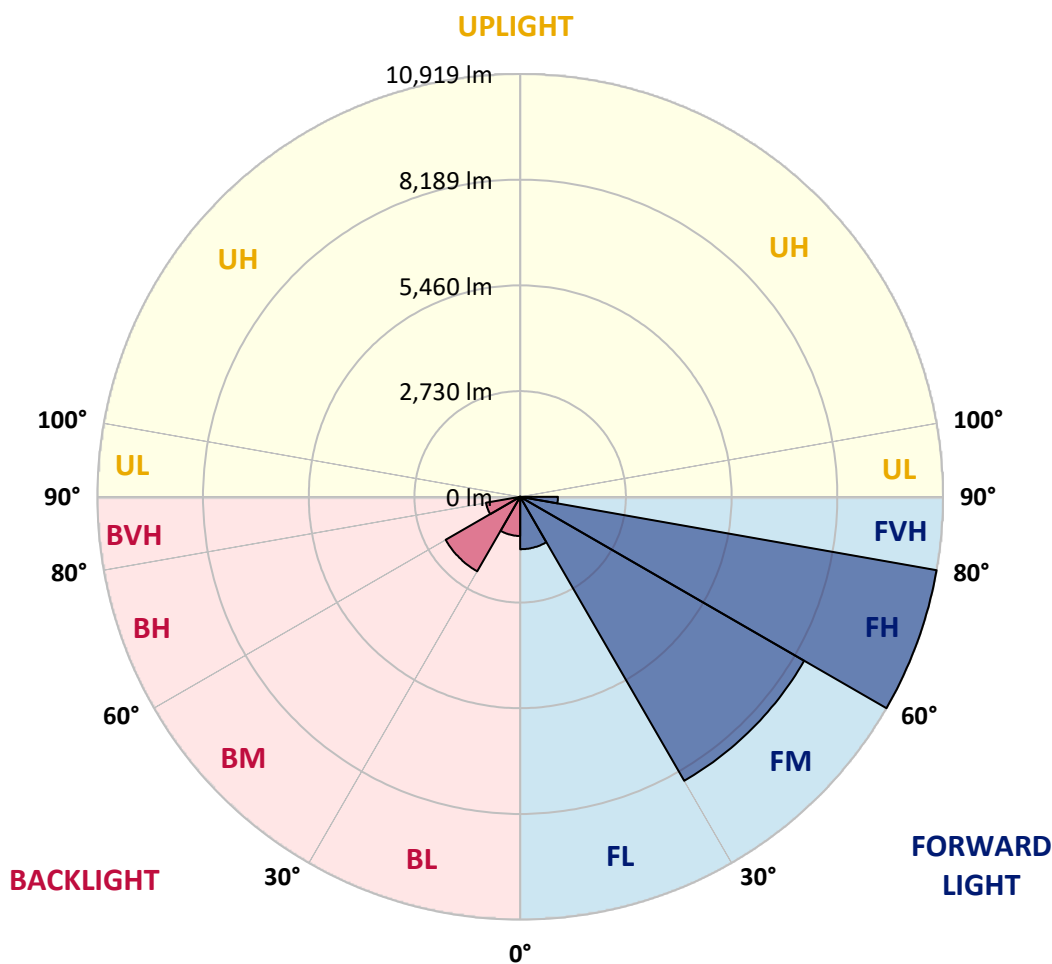
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1353.9	5.2			
FM	(30°-60°)	8467.8	32.7			
FH	(60°-80°)	10919.3	42.2			G4/12000
FVH	(80°-90°)	975.8	3.8			G5
BL	(0°-30°)	1011.6	3.9	B3/2500		
BM	(30°-60°)	2221.9	8.6	B2/2500		
BH	(60°-80°)	894.5	3.5	B2/1000		G2/1000
BVH	(80°-90°)	26.3	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2709.0	2709.0	2709.0	2709.0	2709.0	2709.0	2709.0	2709.0	2709.0	2709.0	2709.0
2.5°	2711.6	2748.0	2748.0	2737.6	2744.1	2749.3	2710.3	2720.7	2716.8	2715.5	2723.3
5°	2732.4	2772.7	2770.1	2757.1	2762.3	2772.7	2736.3	2751.9	2746.7	2733.7	2736.3
7.5°	2732.4	2766.2	2774.0	2759.7	2784.4	2797.4	2758.4	2772.7	2779.2	2770.1	2761.0
10°	2722.0	2751.9	2762.3	2759.7	2792.2	2813.0	2775.3	2815.6	2820.8	2820.8	2806.5
12.5°	2718.1	2751.9	2766.2	2777.9	2815.6	2837.7	2815.6	2854.6	2880.6	2879.3	2870.2
15°	2720.7	2758.4	2780.5	2800.0	2840.3	2867.6	2858.5	2918.3	2949.4	2958.5	2958.5
17.5°	2785.7	2831.2	2841.6	2862.4	2889.7	2931.3	2919.6	2996.2	3045.6	3061.2	3083.3
20°	2967.6	3002.7	3015.7	3005.3	3017.0	3043.0	3019.6	3093.7	3167.8	3209.4	3245.8
22.5°	3200.3	3226.3	3214.6	3204.2	3197.7	3204.2	3175.6	3225.0	3308.2	3368.0	3430.4
25°	3377.1	3434.3	3425.2	3396.6	3387.5	3395.3	3358.9	3420.0	3496.7	3559.1	3652.7
27.5°	3591.6	3626.7	3602.0	3591.6	3598.1	3596.8	3574.7	3633.2	3703.4	3781.4	3919.2
30°	3824.3	3854.2	3829.5	3819.1	3830.8	3838.6	3813.9	3916.6	3990.7	4075.2	4253.2
32.5°	4206.4	4277.9	4210.3	4075.2	4077.8	4089.5	4092.1	4229.8	4365.0	4431.3	4666.6
35°	4751.1	4808.3	4718.6	4554.8	4350.7	4342.9	4363.7	4569.1	4840.8	5142.4	5417.9
37.5°	5259.4	5342.5	5262.0	5070.9	4822.6	4762.8	4654.9	4899.3	5326.9	5975.6	6318.8
40°	5869.0	5931.4	5771.5	5605.1	5356.8	5272.4	5099.5	5255.5	5841.7	6845.2	7081.8
42.5°	6359.1	6396.8	6264.2	6090.0	5874.2	5810.5	5632.4	5646.7	6391.6	7607.0	7759.0
45°	6812.7	6853.0	6743.8	6595.6	6459.2	6382.5	6252.5	6322.7	7036.3	8410.3	8318.0
47.5°	7157.2	7197.5	7110.4	7005.1	6863.4	6811.4	6814.0	7066.2	7825.3	9052.4	8819.8
50°	7721.3	7705.7	7478.3	7363.9	7253.4	7280.7	7309.3	7668.0	8620.9	9603.6	9283.8
52.5°	8705.4	8628.7	8159.4	7860.4	7723.9	7770.7	7817.5	8294.6	9524.3	10106.6	9640.0
55°	9818.1	9740.1	9341.0	8701.5	8340.1	8415.5	8375.2	8914.6	10283.4	10590.2	9933.8
57.5°	10644.8	10773.5	10621.4	10273.0	9368.3	9269.5	9179.8	9541.2	10897.0	11073.8	10215.8
60°	11363.6	11543.0	11814.7	11719.8	11335.0	11077.7	10254.8	10273.0	11487.1	11409.1	10327.6
62.5°	12065.6	12170.9	12636.2	12738.9	13216.0	13400.6	12564.7	11219.3	12057.8	11641.8	10403.0
65°	11363.6	11498.8	12308.7	13056.1	14597.8	14844.7	14551.0	12932.6	12477.6	11779.6	10315.9
67.5°	10228.8	10310.7	11185.5	12545.2	15320.5	15544.1	15315.3	14505.5	12673.9	11738.0	10045.5
70°	8745.7	8874.3	9733.6	11556.0	15294.5	15414.1	15215.2	14695.3	12599.8	11498.8	9363.1
72.5°	7232.6	7305.4	8033.3	9851.9	14547.1	14647.2	14541.9	14404.1	12350.3	10832.0	8051.5
75°	5436.1	5451.7	6197.9	7779.8	12862.4	13385.0	13513.7	13902.3	11394.8	9285.1	5954.8
77.5°	3644.9	3799.6	4515.8	5945.7	10559.0	11394.8	12004.5	12287.9	9520.4	6929.7	3166.5
80°	1956.3	1995.3	2767.5	4219.4	8024.2	8823.7	9402.1	9407.3	6658.0	3433.0	707.1
82.5°	906.0	868.3	1393.5	2670.0	5558.3	5914.5	6301.9	5278.9	2666.1	586.3	180.7
85°	401.7	423.8	630.4	1301.2	3084.6	3442.1	3392.7	2337.2	468.0	158.6	110.5
87.5°	149.5	157.3	244.4	525.2	1101.0	1201.1	1080.2	449.8	61.1	55.9	33.8
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°	2709.0	2709.0	2709.0	2709.0	2709.0	2709.0	2709.0	2709.0	2709.0	2709.0	2709.0
2.5°	2714.2	2714.2	2711.6	2676.5	2668.7	2651.8	2637.5	2647.9	2636.2	2644.0	2636.2
5°	2725.9	2719.4	2703.8	2662.2	2642.7	2605.0	2576.4	2582.9	2567.3	2567.3	2566.0
7.5°	2753.2	2740.2	2712.9	2646.6	2610.2	2555.6	2511.4	2497.1	2481.5	2463.3	2460.7
10°	2797.4	2779.2	2742.8	2651.8	2581.6	2508.8	2432.1	2402.2	2363.2	2334.6	2329.4
12.5°	2858.5	2831.2	2781.8	2671.3	2579.0	2463.3	2360.6	2302.1	2255.3	2213.7	2204.6
15°	2946.8	2919.6	2861.1	2710.3	2580.3	2420.4	2285.2	2187.7	2107.1	2068.1	2069.4
17.5°	3075.5	3056.0	2966.3	2792.2	2605.0	2398.3	2222.8	2068.1	1943.3	1878.3	1869.2
20°	3240.6	3227.6	3118.4	2900.1	2662.2	2402.2	2155.2	1940.7	1757.5	1615.8	1584.6
22.5°	3433.0	3413.5	3279.6	2993.6	2706.4	2391.8	2081.1	1800.3	1524.8	1340.2	1303.8
25°	3647.5	3637.1	3427.8	3075.5	2711.6	2347.6	1974.5	1618.4	1272.6	1075.0	1043.8
27.5°	3921.8	3860.7	3561.7	3119.7	2699.9	2260.5	1822.4	1368.8	1011.3	874.8	841.0
30°	4222.0	4098.6	3691.7	3153.5	2642.7	2121.4	1605.4	1080.2	752.6	631.7	614.8
32.5°	4554.8	4370.2	3813.9	3150.9	2541.3	1906.9	1323.3	750.0	508.3	458.9	442.0
35°	5156.7	4843.4	3960.8	3108.0	2371.0	1652.2	934.6	488.8	377.0	347.1	343.2
37.5°	5992.5	5460.8	4158.3	3026.1	2151.3	1355.8	609.6	334.1	322.4	323.7	322.4
40°	6677.5	6149.8	4432.6	2902.7	1874.4	968.4	365.3	297.7	304.2	308.1	309.4
42.5°	7348.3	6711.3	4771.9	2748.0	1584.6	629.1	296.4	284.7	279.5	286.0	288.6
45°	7887.7	7201.4	5091.7	2567.3	1245.3	371.8	287.3	263.9	254.8	257.4	261.3
47.5°	8319.3	7591.4	5284.1	2356.7	909.9	280.8	279.5	245.7	232.7	230.1	228.8
50°	8726.2	7925.4	5407.5	2101.9	579.8	270.4	258.7	224.9	209.3	206.7	206.7
52.5°	9003.0	8143.8	5449.1	1800.3	345.8	263.9	244.4	208.0	187.2	191.1	193.7
55°	9273.4	8364.8	5363.3	1407.8	265.2	247.0	228.8	187.2	170.3	185.9	191.1
57.5°	9402.1	8397.3	5169.7	978.8	257.4	223.6	206.7	167.7	154.7	163.8	163.8
60°	9506.1	8375.2	4899.3	620.0	250.9	208.0	188.5	152.1	136.5	131.3	127.4
62.5°	9437.2	8286.8	4355.9	404.3	232.7	189.8	171.6	140.4	118.3	104.0	102.7
65°	9290.3	7974.8	3477.2	318.5	215.8	180.7	156.0	126.1	104.0	87.1	85.8
67.5°	8857.4	7215.7	2250.1	263.9	206.7	174.2	144.3	117.0	92.3	75.4	74.1
70°	7820.1	5828.7	690.2	236.6	214.5	167.7	141.7	106.6	81.9	66.3	63.7
72.5°	6183.6	3894.5	256.1	196.3	184.6	161.2	137.8	96.2	70.2	55.9	53.3
75°	3982.9	1272.6	217.1	152.1	157.3	153.4	127.4	88.4	59.8	45.5	44.2
77.5°	1128.3	266.5	197.6	111.8	139.1	148.2	111.8	74.1	53.3	39.0	37.7
80°	236.6	189.8	180.7	79.3	104.0	96.2	75.4	57.2	50.7	33.8	33.8
82.5°	154.7	150.8	154.7	54.6	68.9	70.2	59.8	49.4	44.2	31.2	31.2
85°	109.2	137.8	74.1	39.0	32.5	29.9	35.1	42.9	39.0	26.0	26.0
87.5°	37.7	22.1	15.6	15.6	14.3	14.3	16.9	19.5	20.8	20.8	19.5
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)