

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: P510080

Luminaire Tested: **VERD-M-CA4-200-730-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510080
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-CA4-200-730-U-T4-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 3000K, 910mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25403 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

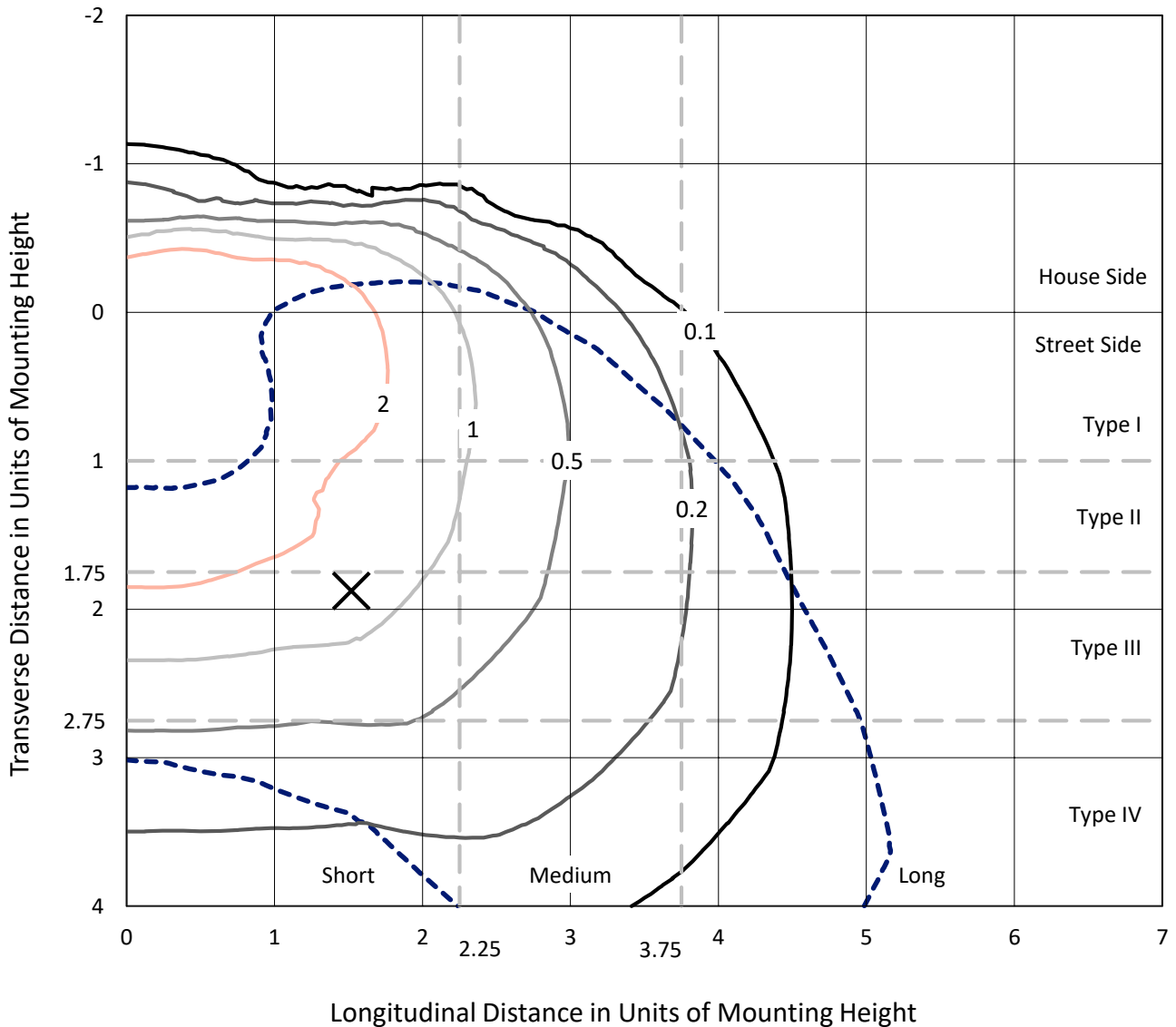
Input Watts (W): 201.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

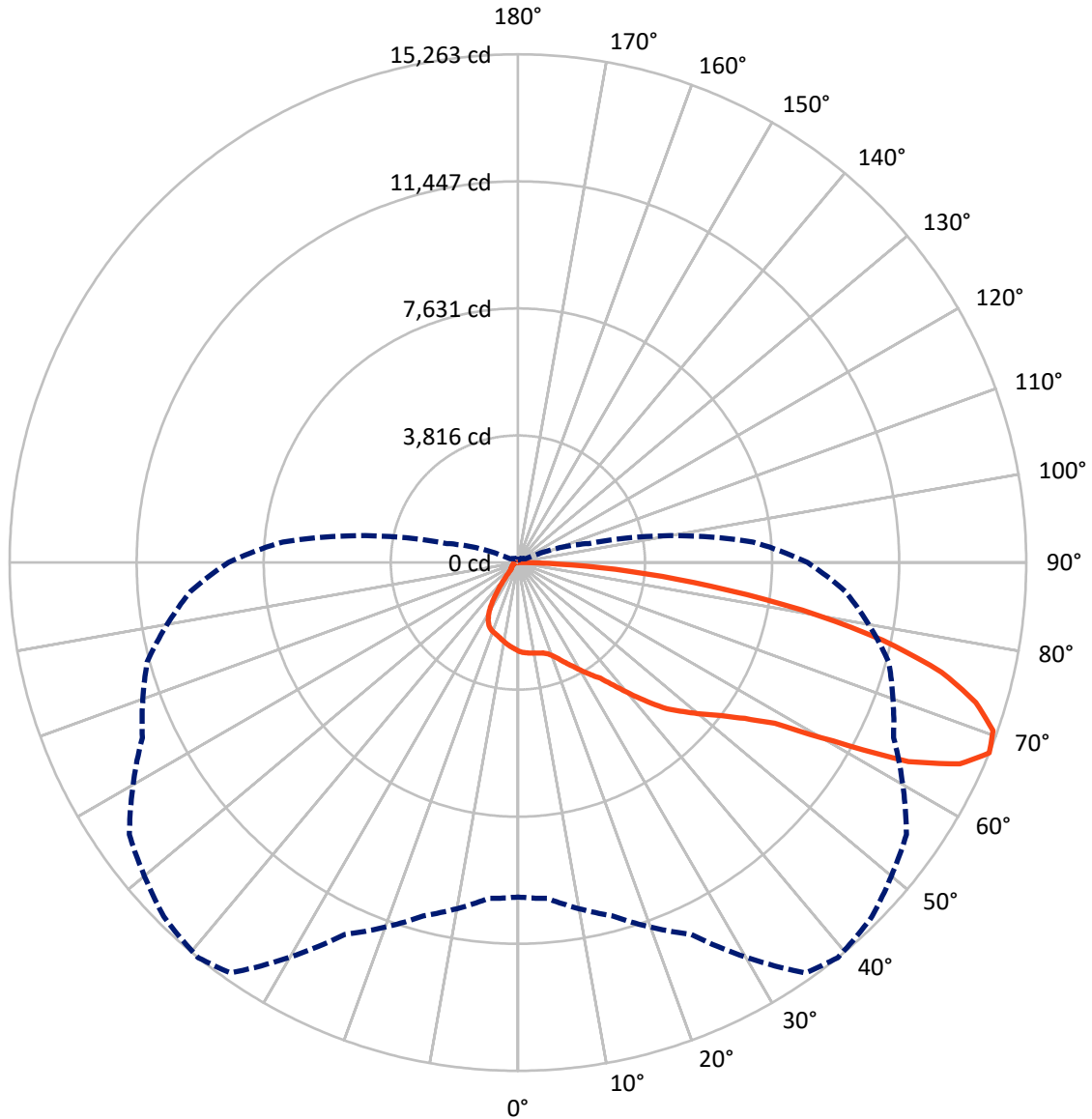
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	4079.1	0.0	4079.1
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	21323.9	0.0	21323.9
	% Fixture	83.9	0.0	83.9
Total	Lumens	25403.0	0.0	25403.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.1	1.0
10°-20°	747.4	2.9
20°-30°	1324.1	5.2
30°-40°	2120.9	8.3
40°-50°	3402.3	13.4
50°-60°	4973.2	19.6
60°-70°	6627.0	26.1
70°-80°	4973.0	19.6
80°-90°	983.9	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°	25403.0	100.0
0°-180°	25403.0	100.0

Coefficient of Utilization



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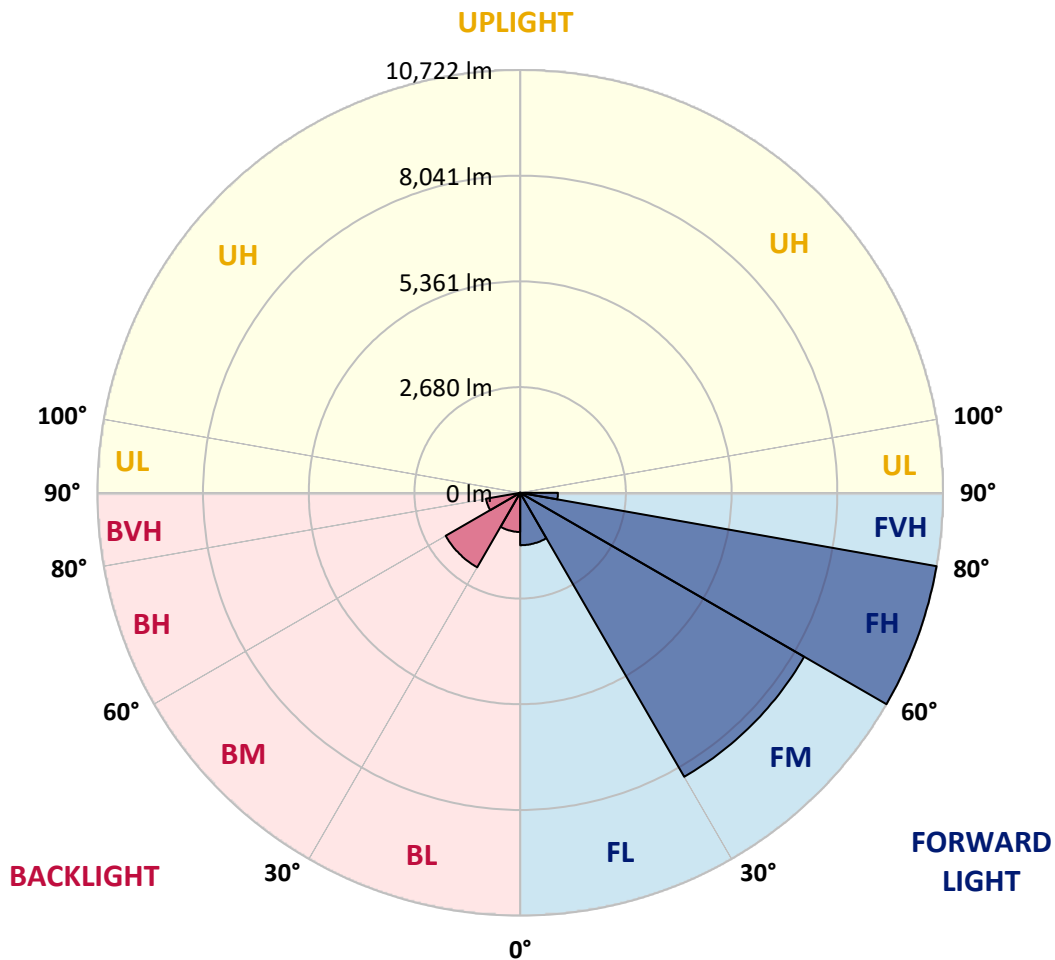
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1329.4	5.2			
FM (30°-60°)	8314.6	32.7			
FH (60°-80°)	10721.8	42.2			G4/12000
FVH (80°-90°)	958.2	3.8			G5
BL (0°-30°)	993.3	3.9	B2/1000		
BM (30°-60°)	2181.7	8.6	B2/2500		
BH (60°-80°)	878.3	3.5	B2/1000		G2/1000
BVH (80°-90°)	25.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2660.0	2660.0	2660.0	2660.0	2660.0	2660.0	2660.0	2660.0	2660.0	2660.0	2660.0
2.5°	2662.5	2698.3	2698.3	2688.0	2694.4	2699.5	2661.2	2671.5	2667.6	2666.3	2674.0
5°	2682.9	2722.5	2720.0	2707.2	2712.3	2722.5	2686.8	2702.1	2697.0	2684.2	2686.8
7.5°	2682.9	2716.1	2723.8	2709.7	2734.0	2746.8	2708.5	2722.5	2728.9	2720.0	2711.0
10°	2672.7	2702.1	2712.3	2709.7	2741.7	2762.1	2725.1	2764.6	2769.7	2769.7	2755.7
12.5°	2668.9	2702.1	2716.1	2727.6	2764.6	2786.3	2764.6	2802.9	2828.4	2827.2	2818.2
15°	2671.5	2708.5	2730.2	2749.3	2788.9	2815.7	2806.7	2865.5	2896.1	2905.0	2905.0
17.5°	2735.3	2779.9	2790.2	2810.6	2837.4	2878.2	2866.7	2942.0	2990.5	3005.9	3027.6
20°	2914.0	2948.4	2961.2	2951.0	2962.5	2988.0	2965.0	3037.8	3110.5	3151.4	3187.1
22.5°	3142.4	3168.0	3156.5	3146.3	3139.9	3146.3	3118.2	3166.7	3248.4	3307.1	3368.4
25°	3316.0	3372.2	3363.2	3335.2	3326.2	3333.9	3298.2	3358.1	3433.4	3494.7	3586.6
27.5°	3526.6	3561.1	3536.8	3526.6	3533.0	3531.7	3510.0	3567.5	3636.4	3713.0	3848.3
30°	3755.1	3784.5	3760.2	3750.0	3761.5	3769.1	3744.9	3845.7	3918.5	4001.4	4176.3
32.5°	4130.3	4200.5	4134.2	4001.4	4004.0	4015.5	4018.0	4153.3	4286.1	4351.2	4582.2
35°	4665.2	4721.3	4633.2	4472.4	4272.0	4264.4	4284.8	4486.5	4753.2	5049.3	5319.9
37.5°	5164.2	5245.9	5166.8	4979.1	4735.4	4676.6	4570.7	4810.7	5230.6	5867.5	6204.5
40°	5762.8	5824.1	5667.1	5503.7	5259.9	5177.0	5007.2	5160.4	5736.0	6721.4	6953.7
42.5°	6244.0	6281.0	6150.9	5979.8	5767.9	5705.4	5530.5	5544.6	6275.9	7469.3	7618.7
45°	6689.5	6729.0	6621.8	6476.3	6342.3	6267.0	6139.4	6208.3	6909.0	8258.1	8167.5
47.5°	7027.7	7067.3	6981.8	6878.4	6739.3	6688.2	6690.8	6938.4	7683.8	8888.7	8660.2
50°	7581.7	7566.4	7343.0	7230.7	7122.2	7149.0	7177.1	7529.3	8464.9	9429.9	9115.9
52.5°	8547.9	8472.6	8011.8	7718.2	7584.2	7630.2	7676.1	8144.5	9352.0	9923.8	9465.6
55°	9640.5	9563.9	9172.0	8544.1	8189.2	8263.3	8223.7	8753.4	10097.4	10398.6	9754.1
57.5°	10452.2	10578.6	10429.3	10087.2	9198.8	9101.8	9013.8	9368.6	10699.9	10873.4	10031.0
60°	11158.1	11334.2	11601.0	11507.8	11130.0	10877.3	10069.3	10087.2	11279.3	11202.7	10140.8
62.5°	11847.3	11950.7	12407.6	12508.5	12976.9	13158.1	12337.4	11016.4	11839.7	11431.2	10214.8
65°	11158.1	11290.8	12086.0	12819.9	14333.7	14576.2	14287.7	12698.7	12251.9	11566.5	10129.3
67.5°	10043.8	10124.2	10983.2	12318.3	15043.4	15262.9	15038.2	14243.1	12444.7	11525.7	9863.8
70°	8587.5	8713.8	9557.5	11347.0	15017.8	15135.3	14940.0	14429.4	12371.9	11290.8	9193.7
72.5°	7101.7	7173.2	7888.0	9673.6	14283.9	14382.2	14278.8	14143.5	12126.8	10636.0	7905.9
75°	5337.8	5353.1	6085.8	7639.1	12629.7	13142.8	13269.2	13650.8	11188.7	9117.1	5847.1
77.5°	3579.0	3730.8	4434.1	5838.1	10368.0	11188.7	11787.3	12065.6	9348.2	6804.4	3109.2
80°	1920.9	1959.2	2717.4	4143.1	7879.1	8664.0	9232.0	9237.1	6537.6	3370.9	694.3
82.5°	889.6	852.6	1368.3	2621.7	5457.8	5807.5	6187.9	5183.4	2617.8	575.6	177.4
85°	394.4	416.1	619.0	1277.7	3028.8	3379.8	3331.3	2294.9	459.5	155.7	108.5
87.5°	146.8	154.4	240.0	515.7	1081.1	1179.4	1060.7	441.6	60.0	54.9	33.2
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°	2660.0	2660.0	2660.0	2660.0	2660.0	2660.0	2660.0	2660.0	2660.0	2660.0	2660.0
2.5°	2665.1	2665.1	2662.5	2628.1	2620.4	2603.8	2589.8	2600.0	2588.5	2596.1	2588.5
5°	2676.6	2670.2	2654.9	2614.0	2594.9	2557.9	2529.8	2536.2	2520.8	2520.8	2519.6
7.5°	2703.4	2690.6	2663.8	2598.7	2563.0	2509.4	2466.0	2451.9	2436.6	2418.7	2416.2
10°	2746.8	2728.9	2693.2	2603.8	2534.9	2463.4	2388.1	2358.7	2320.4	2292.4	2287.3
12.5°	2806.7	2779.9	2731.4	2623.0	2532.3	2418.7	2317.9	2260.5	2214.5	2173.7	2164.7
15°	2893.5	2866.7	2809.3	2661.2	2533.6	2376.6	2243.9	2148.1	2069.0	2030.7	2032.0
17.5°	3019.9	3000.8	2912.7	2741.7	2557.9	2354.9	2182.6	2030.7	1908.2	1844.4	1835.4
20°	3182.0	3169.2	3062.0	2847.6	2614.0	2358.7	2116.2	1905.6	1725.7	1586.5	1555.9
22.5°	3370.9	3351.8	3220.3	2939.5	2657.4	2348.5	2043.5	1767.8	1497.2	1315.9	1280.2
25°	3581.5	3571.3	3365.8	3019.9	2662.5	2305.1	1938.8	1589.1	1249.6	1055.6	1024.9
27.5°	3850.8	3790.8	3497.3	3063.3	2651.0	2219.6	1789.5	1344.0	993.0	859.0	825.8
30°	4145.7	4024.4	3624.9	3096.5	2594.9	2083.0	1576.3	1060.7	739.0	620.3	603.7
32.5°	4472.4	4291.2	3744.9	3093.9	2495.3	1872.4	1299.3	736.5	499.1	450.6	434.0
35°	5063.4	4755.8	3889.1	3051.8	2328.1	1622.3	917.7	479.9	370.1	340.8	337.0
37.5°	5884.1	5362.1	4083.1	2971.4	2112.4	1331.3	598.6	328.0	316.5	317.8	316.5
40°	6556.7	6038.5	4352.4	2850.1	1840.5	950.9	358.7	292.3	298.7	302.5	303.8
42.5°	7215.3	6589.9	4685.6	2698.3	1555.9	617.8	291.0	279.5	274.4	280.8	283.4
45°	7745.0	7071.1	4999.6	2520.8	1222.8	365.0	282.1	259.1	250.2	252.7	256.6
47.5°	8168.8	7454.0	5188.5	2314.1	893.5	275.7	274.4	241.2	228.5	225.9	224.6
50°	8568.3	7782.1	5309.7	2063.9	569.3	265.5	254.0	220.8	205.5	202.9	202.9
52.5°	8840.2	7996.5	5350.6	1767.8	339.5	259.1	240.0	204.2	183.8	187.6	190.2
55°	9105.7	8213.5	5266.3	1382.3	260.4	242.5	224.6	183.8	167.2	182.5	187.6
57.5°	9232.0	8245.4	5076.1	961.1	252.7	219.5	202.9	164.7	151.9	160.8	160.8
60°	9334.1	8223.7	4810.7	608.8	246.3	204.2	185.1	149.3	134.0	128.9	125.1
62.5°	9266.5	8136.9	4277.1	397.0	228.5	186.4	168.5	137.8	116.2	102.1	100.8
65°	9122.3	7830.6	3414.3	312.7	211.9	177.4	153.2	123.8	102.1	85.5	84.2
67.5°	8697.2	7085.2	2209.4	259.1	202.9	171.0	141.7	114.9	90.6	74.0	72.8
70°	7678.7	5723.3	677.8	232.3	210.6	164.7	139.1	104.7	80.4	65.1	62.5
72.5°	6071.7	3824.0	251.4	192.7	181.2	158.3	135.3	94.5	68.9	54.9	52.3
75°	3910.8	1249.6	213.2	149.3	154.4	150.6	125.1	86.8	58.7	44.7	43.4
77.5°	1107.9	261.7	194.0	109.8	136.6	145.5	109.8	72.8	52.3	38.3	37.0
80°	232.3	186.4	177.4	77.9	102.1	94.5	74.0	56.2	49.8	33.2	33.2
82.5°	151.9	148.1	151.9	53.6	67.6	68.9	58.7	48.5	43.4	30.6	30.6
85°	107.2	135.3	72.8	38.3	31.9	29.4	34.5	42.1	38.3	25.5	25.5
87.5°	37.0	21.7	15.3	15.3	14.0	14.0	16.6	19.1	20.4	20.4	19.1
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)