

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: P510152

Luminaire Tested: **VERD-M-CA4-210-760-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510152
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-CA4-210-760-U-T4-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5700K, 960mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26992 lumens
Efficiency: N/A
Efficacy: 126.4 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

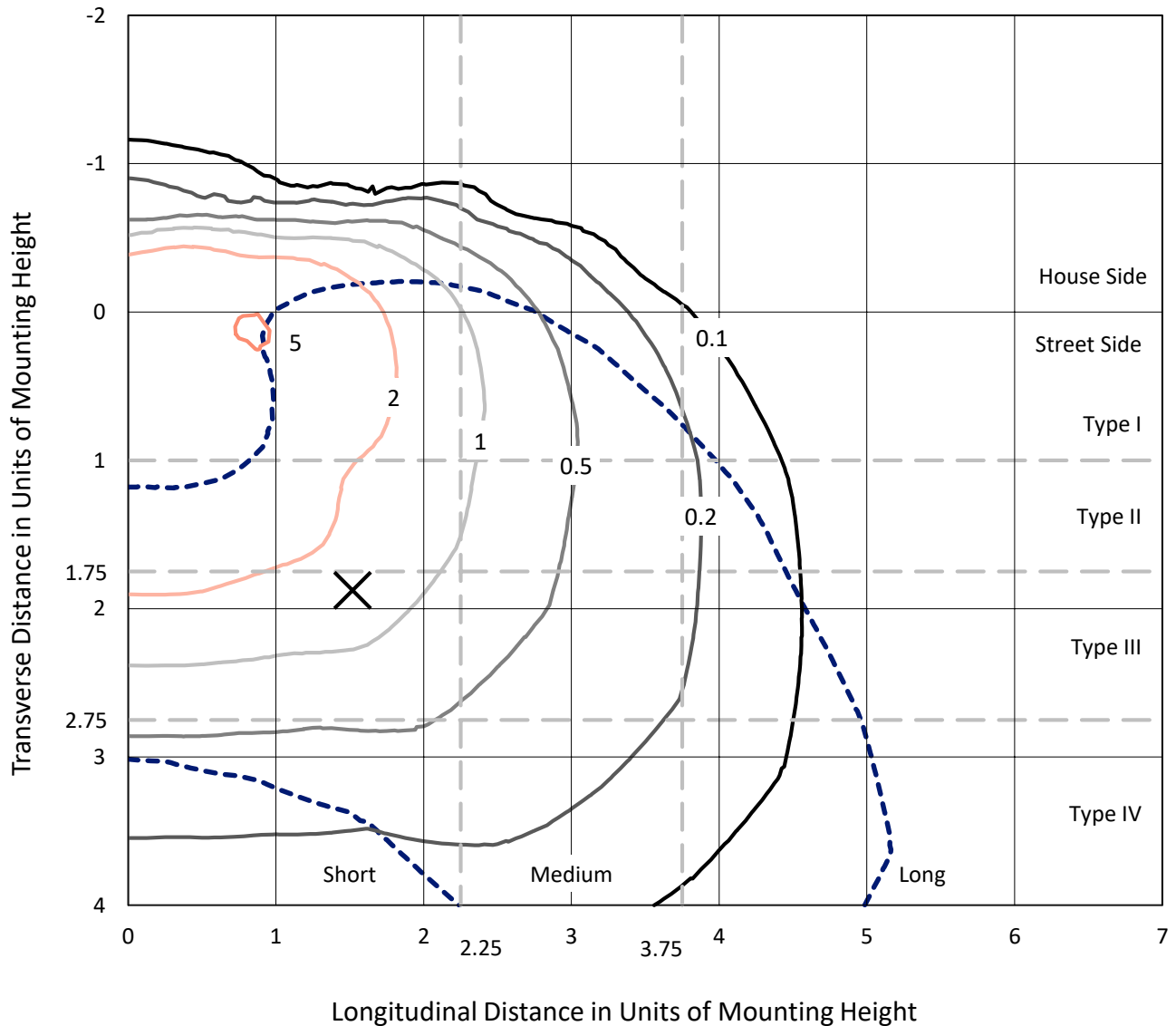
Input Watts (W): 213.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

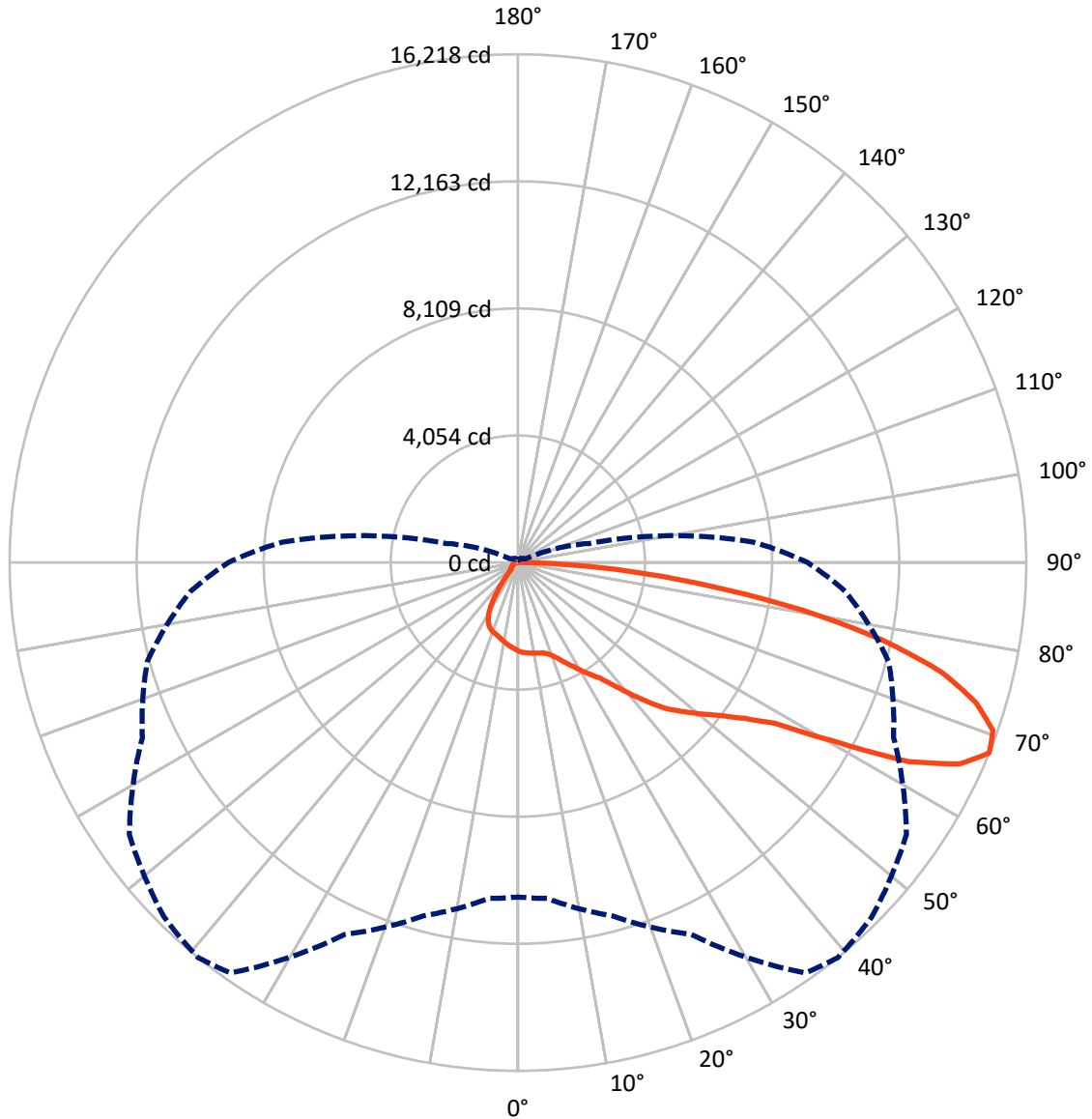
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	4334.2	0.0	4334.2
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	22657.8	0.0	22657.8
	% Fixture	83.9	0.0	83.9
Total	Lumens	26992.0	0.0	26992.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.8	1.0
10°-20°	794.1	2.9
20°-30°	1407.0	5.2
30°-40°	2253.5	8.3
40°-50°	3615.1	13.4
50°-60°	5284.3	19.6
60°-70°	7041.6	26.1
70°-80°	5284.1	19.6
80°-90°	1045.5	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°	26992.0	100.0
0°-180°	26992.0	100.0

Coefficient of Utilization



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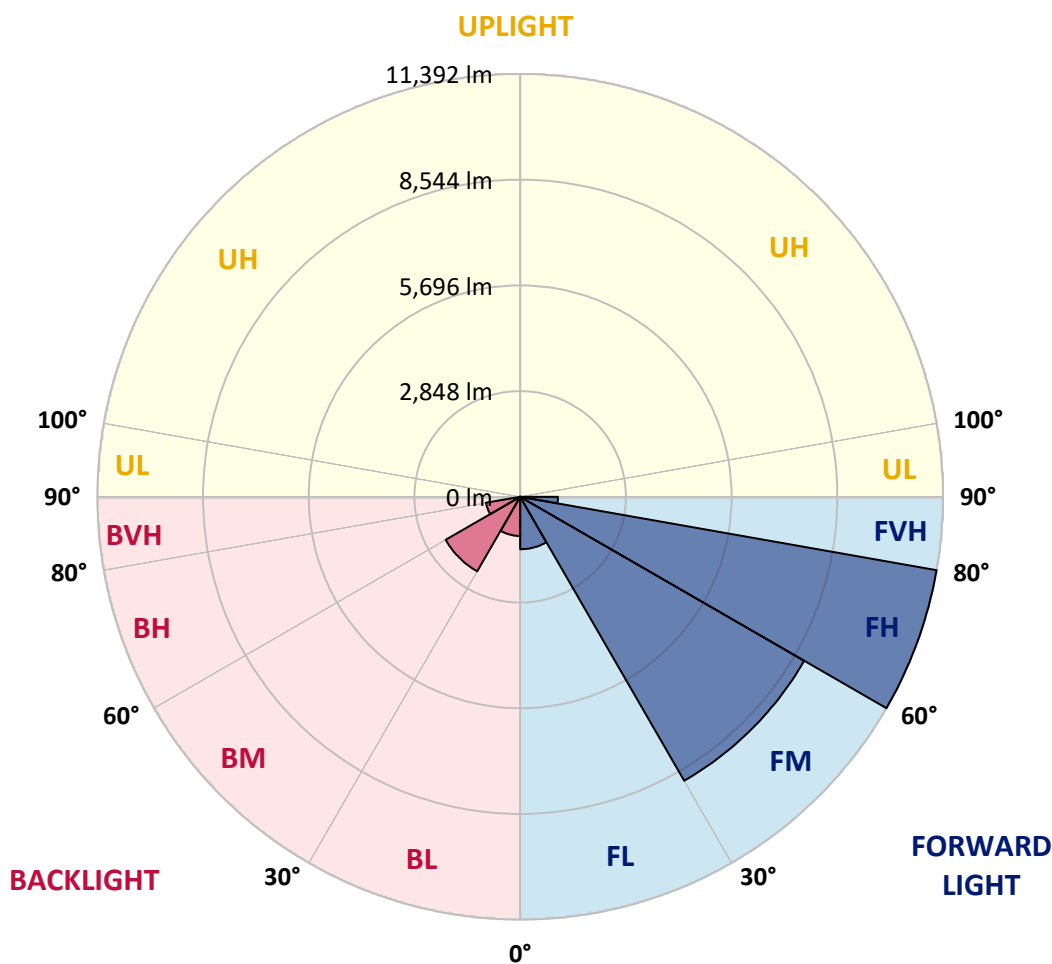
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1412.5	5.2			
FM (30°-60°)	8834.7	32.7			
FH (60°-80°)	11392.4	42.2			G4/12000
FVH (80°-90°)	1018.1	3.8			G5
BL (0°-30°)	1055.4	3.9	B3/2500		
BM (30°-60°)	2318.2	8.6	B2/2500		
BH (60°-80°)	933.2	3.5	B2/1000		G2/1000
BVH (80°-90°)	27.4	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°	2826.4	2826.4	2826.4	2826.4	2826.4	2826.4	2826.4	2826.4	2826.4	2826.4	2826.4
2.5°	2829.1	2867.0	2867.0	2856.2	2863.0	2868.4	2827.7	2838.6	2834.5	2833.1	2841.3
5°	2850.8	2892.8	2890.1	2876.5	2882.0	2892.8	2854.8	2871.1	2865.7	2852.1	2854.8
7.5°	2850.8	2886.0	2894.2	2879.2	2905.0	2918.6	2877.9	2892.8	2899.6	2890.1	2880.6
10°	2839.9	2871.1	2882.0	2879.2	2913.1	2934.8	2895.5	2937.6	2943.0	2943.0	2928.1
12.5°	2835.8	2871.1	2886.0	2898.2	2937.6	2960.6	2937.6	2978.2	3005.4	3004.0	2994.5
15°	2838.6	2877.9	2900.9	2921.3	2963.3	2991.8	2982.3	3044.7	3077.3	3086.7	3086.7
17.5°	2906.4	2953.8	2964.7	2986.4	3014.9	3058.3	3046.1	3126.1	3177.6	3193.9	3216.9
20°	3096.2	3132.9	3146.4	3135.6	3147.8	3174.9	3150.5	3227.8	3305.1	3348.5	3386.5
22.5°	3339.0	3366.1	3353.9	3343.1	3336.3	3343.1	3313.2	3364.8	3451.6	3514.0	3579.0
25°	3523.4	3583.1	3573.6	3543.8	3534.3	3542.4	3504.5	3568.2	3648.2	3713.3	3811.0
27.5°	3747.2	3783.8	3758.1	3747.2	3754.0	3752.6	3729.6	3790.6	3863.9	3945.2	4089.0
30°	3990.0	4021.2	3995.4	3984.6	3996.8	4004.9	3979.1	4086.3	4163.6	4251.7	4437.5
32.5°	4388.7	4463.3	4392.8	4251.7	4254.4	4266.7	4269.4	4413.1	4554.2	4623.3	4868.8
35°	4957.0	5016.6	4923.1	4752.2	4539.2	4531.1	4552.8	4767.1	5050.5	5365.2	5652.7
37.5°	5487.2	5574.0	5490.0	5290.6	5031.6	4969.2	4856.6	5111.6	5557.8	6234.5	6592.6
40°	6123.3	6188.4	6021.6	5848.0	5589.0	5500.8	5320.4	5483.2	6094.8	7141.8	7388.7
42.5°	6634.6	6673.9	6535.6	6353.9	6128.7	6062.3	5876.5	5891.4	6668.5	7936.6	8095.2
45°	7107.9	7150.0	7036.0	6881.4	6739.0	6659.0	6523.4	6596.6	7341.2	8774.7	8678.4
47.5°	7467.3	7509.4	7418.5	7308.6	7160.8	7106.6	7109.3	7372.4	8164.4	9444.7	9201.9
50°	8055.9	8039.6	7802.3	7683.0	7567.7	7596.2	7626.0	8000.3	8994.4	10019.7	9686.1
52.5°	9082.6	9002.6	8513.0	8201.0	8058.6	8107.4	8156.3	8654.0	9937.0	10544.6	10057.7
55°	10243.5	10162.1	9745.8	9078.5	8701.5	8780.1	8738.1	9300.9	10729.0	11049.1	10364.2
57.5°	11106.0	11240.3	11081.6	10718.2	9774.2	9671.2	9577.6	9954.6	11369.1	11553.6	10658.5
60°	11856.0	12043.2	12326.6	12227.6	11826.2	11557.7	10699.2	10718.2	11984.9	11903.5	10775.1
62.5°	12588.4	12698.2	13183.8	13290.9	13788.6	13981.2	13109.2	11705.5	12580.2	12146.3	10853.8
65°	11856.0	11997.1	12842.0	13621.8	15230.3	15488.0	15181.5	13493.0	13018.3	12290.0	10762.9
67.5°	10672.0	10757.5	11670.2	13088.8	15984.3	16217.6	15978.9	15134.0	13223.1	12246.6	10480.8
70°	9124.6	9258.9	10155.3	12056.7	15957.2	16082.0	15874.5	15332.0	13145.8	11997.1	9768.8
72.5°	7546.0	7621.9	8381.4	10278.7	15177.4	15281.8	15172.0	15028.2	12885.4	11301.3	8400.4
75°	5671.7	5688.0	6466.4	8116.9	13419.7	13964.9	14099.2	14504.7	11888.6	9687.4	6212.8
77.5°	3802.8	3964.2	4711.5	6203.3	11016.5	11888.6	12524.6	12820.3	9932.9	7230.0	3303.7
80°	2041.1	2081.8	2887.4	4402.3	8371.9	9206.0	9809.5	9814.9	6946.5	3581.8	737.8
82.5°	945.3	906.0	1453.9	2785.7	5799.2	6170.8	6574.9	5507.6	2781.6	611.7	188.5
85°	419.1	442.1	657.8	1357.6	3218.3	3591.3	3539.7	2438.5	488.2	165.5	115.3
87.5°	156.0	164.1	255.0	547.9	1148.7	1253.1	1127.0	469.3	63.7	58.3	35.3
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°	2826.4	2826.4	2826.4	2826.4	2826.4	2826.4	2826.4	2826.4	2826.4	2826.4	2826.4
2.5°	2831.8	2831.8	2829.1	2792.4	2784.3	2766.7	2751.8	2762.6	2750.4	2758.5	2750.4
5°	2844.0	2837.2	2820.9	2777.5	2757.2	2717.9	2688.0	2694.8	2678.5	2678.5	2677.2
7.5°	2872.5	2858.9	2830.4	2761.3	2723.3	2666.3	2620.2	2605.3	2589.0	2570.0	2567.3
10°	2918.6	2899.6	2861.6	2766.7	2693.4	2617.5	2537.5	2506.3	2465.6	2435.8	2430.3
12.5°	2982.3	2953.8	2902.3	2787.0	2690.7	2570.0	2462.9	2401.9	2353.0	2309.6	2300.1
15°	3074.5	3046.1	2985.0	2827.7	2692.1	2525.3	2384.2	2282.5	2198.4	2157.7	2159.1
17.5°	3208.8	3188.5	3094.9	2913.1	2717.9	2502.2	2319.1	2157.7	2027.5	1959.7	1950.2
20°	3381.0	3367.5	3253.6	3025.7	2777.5	2506.3	2248.6	2024.8	1833.6	1685.8	1653.2
22.5°	3581.8	3561.4	3421.7	3123.4	2823.6	2495.4	2171.3	1878.4	1590.8	1398.3	1360.3
25°	3805.5	3794.7	3576.3	3208.8	2829.1	2449.3	2060.1	1688.5	1327.7	1121.6	1089.0
27.5°	4091.7	4028.0	3716.0	3254.9	2816.9	2358.5	1901.4	1428.1	1055.1	912.7	877.5
30°	4405.0	4276.1	3851.6	3290.2	2757.2	2213.3	1674.9	1127.0	785.2	659.1	641.5
32.5°	4752.2	4559.6	3979.1	3287.5	2651.4	1989.6	1380.6	782.5	530.3	478.7	461.1
35°	5380.1	5053.3	4132.4	3242.7	2473.7	1723.7	975.1	509.9	393.3	362.1	358.0
37.5°	6252.1	5697.5	4338.5	3157.3	2244.5	1414.5	636.1	348.5	336.3	337.7	336.3
40°	6966.9	6416.2	4624.7	3028.4	1955.7	1010.4	381.1	310.6	317.4	321.4	322.8
42.5°	7666.7	7002.1	4978.7	2867.0	1653.2	656.4	309.2	297.0	291.6	298.4	301.1
45°	8229.5	7513.4	5312.3	2678.5	1299.3	387.9	299.7	275.3	265.8	268.5	272.6
47.5°	8679.8	7920.3	5513.0	2458.8	949.3	292.9	291.6	256.3	242.8	240.0	238.7
50°	9104.3	8268.8	5641.9	2193.0	604.9	282.1	269.9	234.6	218.4	215.6	215.6
52.5°	9393.1	8496.7	5685.3	1878.4	360.8	275.3	255.0	217.0	195.3	199.4	202.1
55°	9675.2	8727.2	5595.7	1468.8	276.7	257.7	238.7	195.3	177.7	193.9	199.4
57.5°	9809.5	8761.1	5393.7	1021.2	268.5	233.3	215.6	175.0	161.4	170.9	170.9
60°	9918.0	8738.1	5111.6	646.9	261.7	217.0	196.7	158.7	142.4	137.0	132.9
62.5°	9846.1	8645.9	4544.7	421.8	242.8	198.0	179.0	146.5	123.4	108.5	107.1
65°	9692.9	8320.4	3627.9	332.3	225.1	188.5	162.7	131.6	108.5	90.9	89.5
67.5°	9241.2	7528.3	2347.6	275.3	215.6	181.7	150.5	122.1	96.3	78.7	77.3
70°	8159.0	6081.3	720.1	246.8	223.8	175.0	147.8	111.2	85.4	69.2	66.5
72.5°	6451.5	4063.2	267.2	204.8	192.6	168.2	143.8	100.4	73.2	58.3	55.6
75°	4155.4	1327.7	226.5	158.7	164.1	160.0	132.9	92.2	62.4	47.5	46.1
77.5°	1177.2	278.0	206.1	116.6	145.1	154.6	116.6	77.3	55.6	40.7	39.3
80°	246.8	198.0	188.5	82.7	108.5	100.4	78.7	59.7	52.9	35.3	35.3
82.5°	161.4	157.3	161.4	57.0	71.9	73.2	62.4	51.5	46.1	32.5	32.5
85°	113.9	143.8	77.3	40.7	33.9	31.2	36.6	44.8	40.7	27.1	27.1
87.5°	39.3	23.1	16.3	16.3	14.9	14.9	17.6	20.3	21.7	21.7	20.3
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)