

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: P509993

Luminaire Tested: **VERD-M-CA3-180-740-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-6)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA3-180-740-U-T4
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 1120mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25476 lumens
Efficiency: N/A
Efficacy: 139.1 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

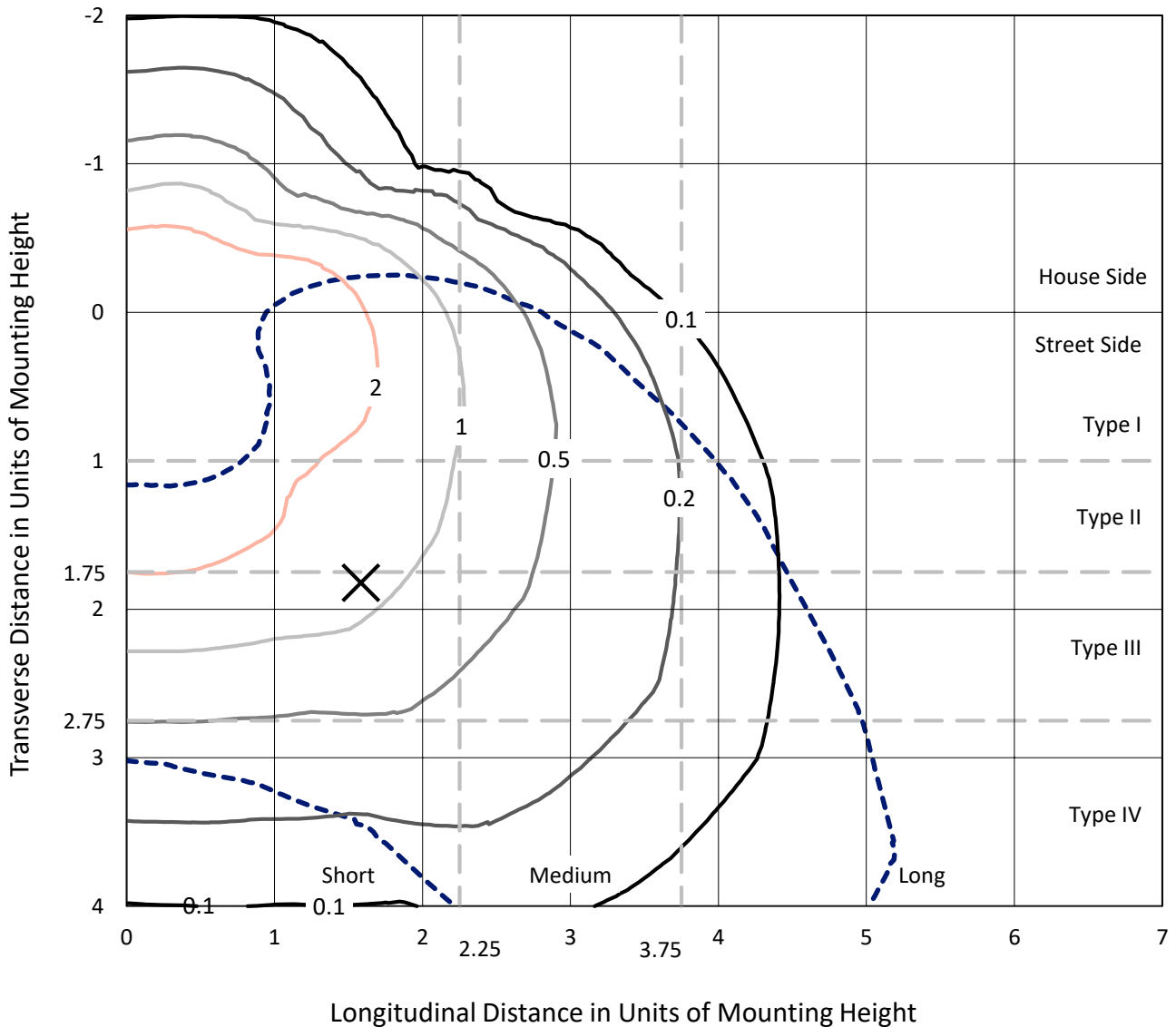
Input Watts (W): 183.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509993
 CATALOG NUMBER: VERD-M-CA3-180-740-U-T4

Iso-Footcandle Lines of Horizontal Illumination

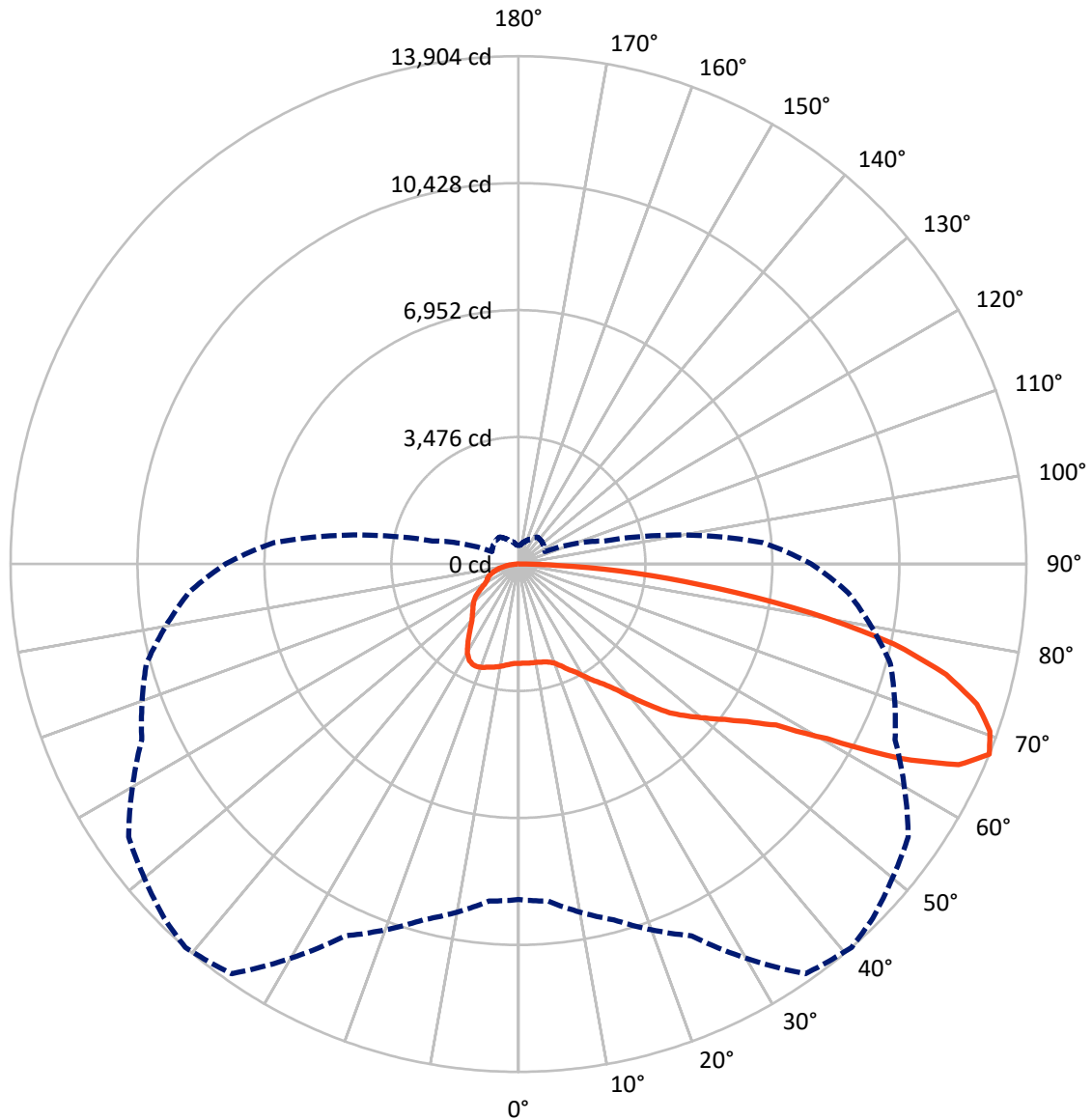
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P509993
CATALOG NUMBER: VERD-M-CA3-180-740-U-T4

Luminous Intensity Polar Plot



— Vertical Plane Through 41-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P509993

CATALOG NUMBER: VERD-M-CA3-180-740-U-T4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5765.1	0.0	5765.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	19710.9	0.0	19710.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	25476.0	0.0	25476.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.8	1.0
10°-20°	815.2	3.2
20°-30°	1457.7	5.7
30°-40°	2285.8	9.0
40°-50°	3544.6	13.9
50°-60°	4996.9	19.6
60°-70°	6369.9	25.0
70°-80°	4766.8	18.7
80°-90°	976.3	3.8
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°	25476.0	100.0
0°-180°	25476.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509993

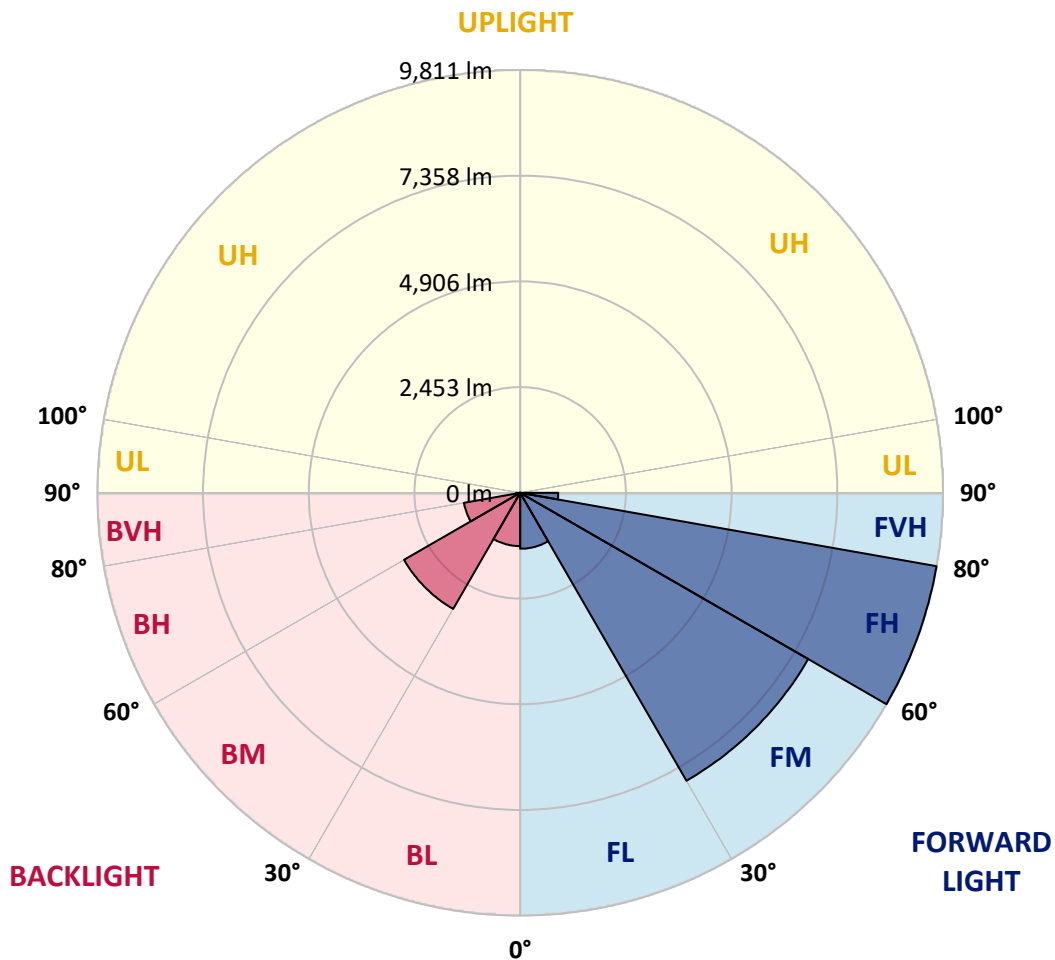
CATALOG NUMBER: VERD-M-CA3-180-740-U-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1298.0	5.1			
FM	(30°-60°)	7716.5	30.3			
FH	(60°-80°)	9811.3	38.5			G4/12000
FVH	(80°-90°)	885.1	3.5			G5
BL	(0°-30°)	1237.7	4.9	B3/2500		
BM	(30°-60°)	3110.8	12.2	B3/5000		
BH	(60°-80°)	1325.4	5.2	B3/2500		G3/2500
BVH	(80°-90°)	91.2	0.4			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





REPORT NUMBER: P509993

CATALOG NUMBER: VERD-M-CA3-180-740-U-T4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2720.0	2720.0	2720.0	2720.0	2720.0	2720.0	2720.0	2720.0	2720.0	2720.0	2720.0
2.5°	2686.6	2717.7	2713.1	2707.3	2716.5	2717.7	2691.2	2701.6	2707.3	2716.5	2731.5
5°	2693.5	2724.6	2722.3	2711.9	2718.8	2722.3	2698.1	2716.5	2716.5	2720.0	2737.3
7.5°	2678.5	2708.5	2708.5	2705.0	2720.0	2733.8	2711.9	2728.1	2737.3	2746.5	2758.1
10°	2664.7	2690.0	2699.2	2696.9	2731.5	2735.0	2720.0	2759.2	2774.2	2783.4	2797.3
12.5°	2649.7	2680.8	2693.5	2706.2	2743.1	2755.7	2747.7	2788.0	2819.2	2835.3	2850.3
15°	2642.7	2677.3	2698.1	2716.5	2756.9	2780.0	2780.0	2841.1	2878.0	2898.7	2925.2
17.5°	2691.2	2726.9	2743.1	2758.1	2794.9	2826.1	2823.8	2895.3	2949.5	2981.7	3030.2
20°	2811.1	2853.8	2863.0	2868.7	2891.8	2903.3	2899.9	2977.1	3052.1	3113.2	3167.4
22.5°	3019.8	3045.2	3049.8	3026.7	3032.5	3041.7	3035.9	3078.6	3163.9	3235.4	3332.3
25°	3190.4	3230.8	3219.3	3185.8	3190.4	3203.1	3185.8	3251.5	3312.7	3406.1	3504.1
27.5°	3370.3	3400.3	3387.6	3366.9	3362.2	3353.0	3349.6	3433.7	3523.7	3597.5	3742.7
30°	3589.4	3605.5	3568.6	3559.4	3567.5	3573.2	3551.3	3658.6	3740.4	3846.5	4042.5
32.5°	3958.4	3973.3	3920.3	3778.5	3781.9	3808.5	3790.0	3924.9	4079.4	4208.6	4408.0
35°	4428.8	4428.8	4387.3	4187.8	4036.8	4037.9	4042.5	4232.8	4519.9	4809.3	5014.5
37.5°	4905.0	4921.1	4842.7	4660.6	4469.2	4367.7	4282.4	4526.8	4902.7	5548.4	5853.9
40°	5400.8	5426.2	5308.6	5141.4	4921.1	4805.8	4706.7	4855.4	5362.8	6280.6	6522.7
42.5°	5834.3	5870.1	5749.0	5572.6	5419.2	5289.0	5139.1	5199.0	5868.9	6975.8	7113.1
45°	6237.9	6257.5	6154.9	6009.6	5882.8	5811.3	5706.4	5775.5	6447.8	7656.1	7630.8
47.5°	6535.4	6564.2	6470.8	6392.4	6262.1	6219.5	6218.3	6408.6	7099.2	8198.1	8080.4
50°	7018.5	6996.6	6786.7	6691.0	6611.5	6625.3	6658.8	6987.4	7864.8	8720.4	8458.6
52.5°	7829.1	7788.7	7322.9	7123.4	7025.4	7070.4	7087.7	7512.0	8637.4	9171.2	8771.1
55°	8877.2	8748.1	8409.1	7874.1	7566.2	7608.9	7589.3	8075.8	9255.4	9601.3	9002.9
57.5°	9570.2	9691.2	9528.7	9223.1	8458.6	8319.1	8273.0	8633.9	9827.3	10012.9	9242.7
60°	10172.0	10372.7	10631.0	10434.9	10228.5	9706.2	9276.1	9268.1	10331.2	10287.4	9339.6
62.5°	10807.4	10913.4	11311.2	11432.3	11815.1	11719.4	11142.9	10070.6	10835.0	10488.0	9396.1
65°	10165.1	10307.0	11031.1	11691.7	13108.8	13247.2	13059.2	11562.6	11184.4	10590.6	9315.3
67.5°	9187.4	9265.8	10085.6	11231.7	13694.6	13904.4	13715.3	13027.0	11378.1	10545.6	9066.3
70°	7934.0	8026.3	8809.2	10372.7	13664.6	13692.3	13618.5	13161.9	11300.9	10334.6	8439.0
72.5°	6432.8	6549.2	7237.6	8861.1	13009.7	13129.6	13013.1	12894.4	11084.1	9744.3	7358.6
75°	4866.9	5021.5	5636.0	7064.6	11496.9	12101.1	12116.1	12482.7	10242.4	8353.7	5340.8
77.5°	3319.6	3467.2	4049.4	5382.4	9543.6	10508.7	10760.1	11161.3	8557.8	6173.3	2913.7
80°	1869.1	1855.2	2594.3	3845.4	7279.1	8126.6	8442.5	8426.4	6009.6	3169.7	593.8
82.5°	863.6	865.9	1327.1	2454.8	4928.1	5487.3	5615.3	4887.7	2108.9	537.3	189.1
85°	430.1	434.7	638.8	1231.4	2782.3	3214.7	3055.5	2033.9	452.0	156.8	113.0
87.5°	170.6	163.7	252.5	506.2	1004.3	1064.2	929.3	407.0	81.9	55.3	38.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P509993

CATALOG NUMBER: VERD-M-CA3-180-740-U-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2720.0	2720.0	2720.0	2720.0	2720.0	2720.0	2720.0	2720.0	2720.0	2720.0	2720.0
2.5°	2728.1	2730.4	2740.8	2720.0	2725.8	2721.2	2717.7	2736.1	2735.0	2738.5	2732.7
5°	2736.1	2741.9	2752.3	2743.1	2752.3	2747.7	2751.1	2776.5	2780.0	2778.8	2778.8
7.5°	2758.1	2763.8	2783.4	2771.9	2792.6	2786.9	2788.0	2812.2	2816.9	2809.9	2807.6
10°	2804.2	2808.8	2836.5	2834.2	2842.2	2837.6	2833.0	2843.4	2841.1	2830.7	2826.1
12.5°	2857.2	2869.9	2901.0	2902.2	2912.6	2889.5	2865.3	2861.8	2854.9	2838.8	2835.3
15°	2936.8	2951.8	2999.0	2987.5	2980.6	2931.0	2890.7	2858.4	2830.7	2816.9	2804.2
17.5°	3050.9	3076.3	3142.0	3106.3	3055.5	2982.9	2912.6	2842.2	2783.4	2733.8	2714.2
20°	3196.2	3225.0	3280.4	3233.1	3155.8	3047.5	2933.3	2806.5	2678.5	2569.0	2552.8
22.5°	3369.2	3415.3	3455.6	3347.3	3233.1	3095.9	2933.3	2751.1	2539.0	2375.2	2334.9
25°	3570.9	3606.7	3594.0	3441.8	3276.9	3104.0	2901.0	2653.1	2353.3	2163.1	2130.8
27.5°	3790.0	3806.2	3708.2	3486.8	3281.5	3056.7	2809.9	2479.0	2136.6	1986.7	1955.5
30°	4059.8	4011.4	3824.6	3514.4	3235.4	2951.8	2647.4	2224.2	1960.2	1828.7	1793.0
32.5°	4350.4	4261.6	3907.6	3494.8	3133.9	2776.5	2396.0	2044.3	1842.5	1682.3	1652.3
35°	4903.8	4651.3	4028.7	3436.0	2957.5	2542.4	2152.7	1906.0	1718.0	1546.2	1518.5
37.5°	5651.0	5211.7	4198.2	3354.2	2748.8	2315.3	1971.7	1758.4	1595.8	1418.2	1374.4
40°	6232.1	5777.8	4470.3	3266.5	2556.3	2099.7	1840.2	1681.1	1515.1	1326.0	1287.9
42.5°	6785.6	6295.6	4804.7	3168.5	2358.0	1949.8	1782.6	1663.8	1493.2	1300.6	1264.9
45°	7274.5	6714.1	5092.9	3070.5	2134.3	1811.4	1739.9	1630.4	1462.0	1268.3	1233.7
47.5°	7670.0	7073.9	5343.1	2964.4	1931.3	1706.5	1684.6	1569.3	1402.1	1202.6	1161.1
50°	8027.4	7378.3	5516.1	2851.4	1733.0	1621.2	1593.5	1457.4	1283.3	1106.9	1080.4
52.5°	8247.6	7584.6	5619.9	2869.9	1545.1	1525.5	1480.5	1341.0	1179.6	1028.5	993.9
55°	8478.2	7779.5	5618.7	2766.1	1388.3	1381.3	1338.7	1231.4	1104.6	977.8	957.0
57.5°	8572.8	7796.8	5513.8	2278.4	1249.9	1206.1	1196.8	1140.3	1029.7	909.7	886.7
60°	8636.2	7720.7	5315.5	1555.4	1075.8	1044.6	1089.6	1051.6	951.3	825.6	802.5
62.5°	8573.9	7637.7	4795.5	1123.1	943.2	960.5	1003.1	961.6	856.7	742.6	723.0
65°	8425.2	7320.6	3786.6	875.2	884.4	922.4	955.9	886.7	694.1	581.1	569.6
67.5°	8019.3	6717.6	2436.4	802.5	850.9	890.1	901.7	750.6	628.4	520.0	507.3
70°	7164.9	5392.7	938.6	756.4	817.5	834.8	787.5	688.4	577.7	484.3	472.7
72.5°	5604.9	3541.0	541.9	691.8	746.0	729.9	731.0	618.0	521.2	432.4	423.2
75°	3483.3	1282.2	482.0	615.7	631.9	661.8	623.8	536.2	448.5	395.5	384.0
77.5°	1151.9	364.4	446.2	530.4	566.1	544.2	522.3	457.8	384.0	342.5	336.7
80°	279.0	273.3	400.1	415.1	443.9	407.0	404.7	380.5	324.0	299.8	294.0
82.5°	171.8	196.0	318.2	258.3	296.3	299.8	341.3	313.6	236.4	245.6	237.5
85°	106.1	151.0	167.2	124.5	125.7	168.3	204.1	189.1	141.8	133.8	132.6
87.5°	35.7	31.1	35.7	26.5	35.7	61.1	92.2	87.6	58.8	40.4	38.1
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)