

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: P510000

Luminaire Tested: **VERD-M-CA3-180-750-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510000
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-CA3-180-750-U-T4-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 1120mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23368 lumens
Efficiency: N/A
Efficacy: 127.6 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

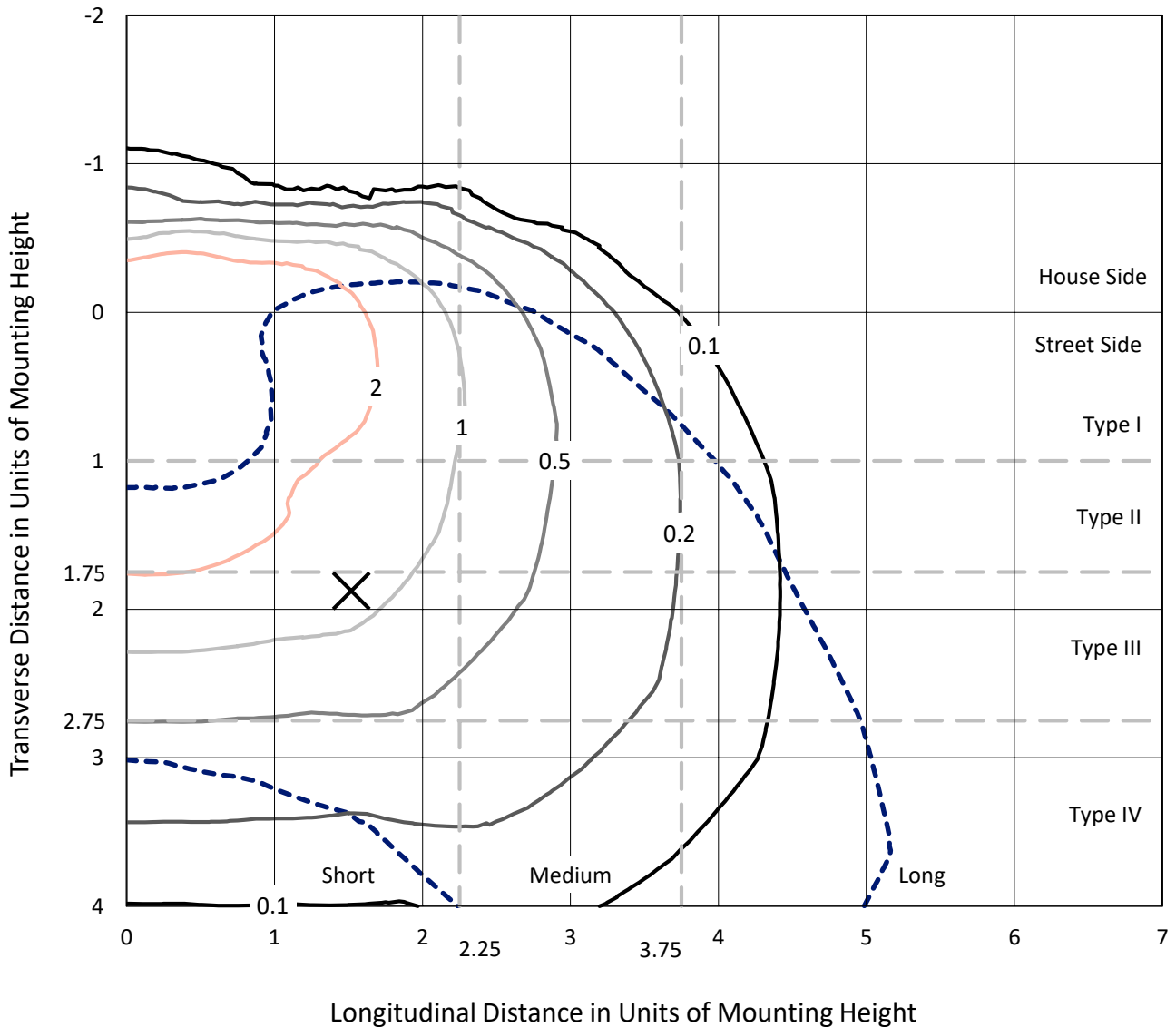
Input Watts (W): 183.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510000
 CATALOG NUMBER: VERD-M-CA3-180-750-U-T4-HSS

Iso-Footcandle Lines of Horizontal Illumination

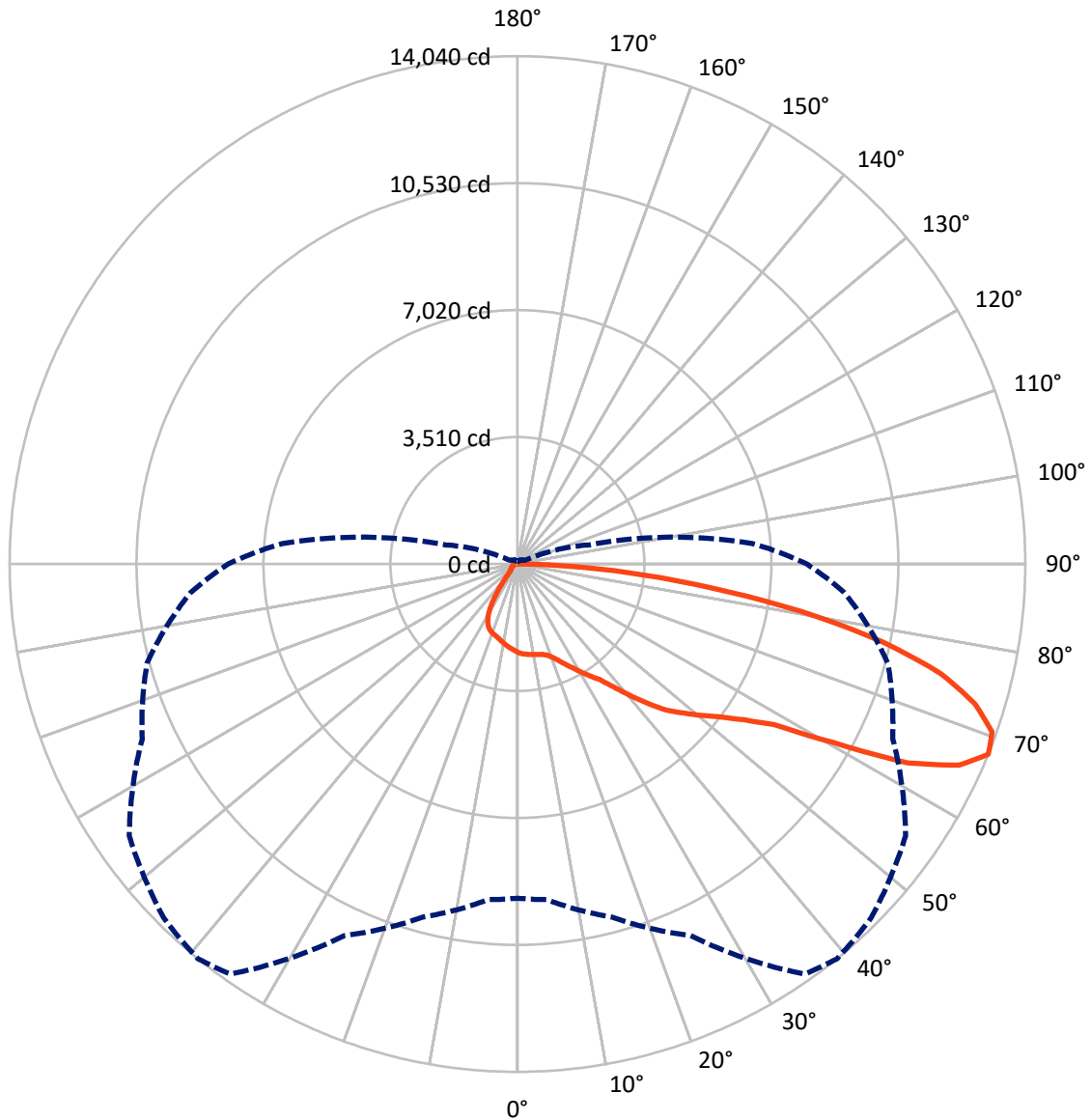
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P510000
CATALOG NUMBER: VERD-M-CA3-180-750-U-T4-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P510000

CATALOG NUMBER: VERD-M-CA3-180-750-U-T4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3752.3	0.0	3752.3
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	19615.7	0.0	19615.7
	% Fixture	83.9	0.0	83.9
Total	Lumens	23368.0	0.0	23368.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.0	1.0
10°-20°	687.5	2.9
20°-30°	1218.1	5.2
30°-40°	1951.0	8.3
40°-50°	3129.7	13.4
50°-60°	4574.8	19.6
60°-70°	6096.2	26.1
70°-80°	4574.6	19.6
80°-90°	905.1	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°	23368.0	100.0
0°-180°	23368.0	100.0

Coefficient of Utilization



REPORT NUMBER: P510000

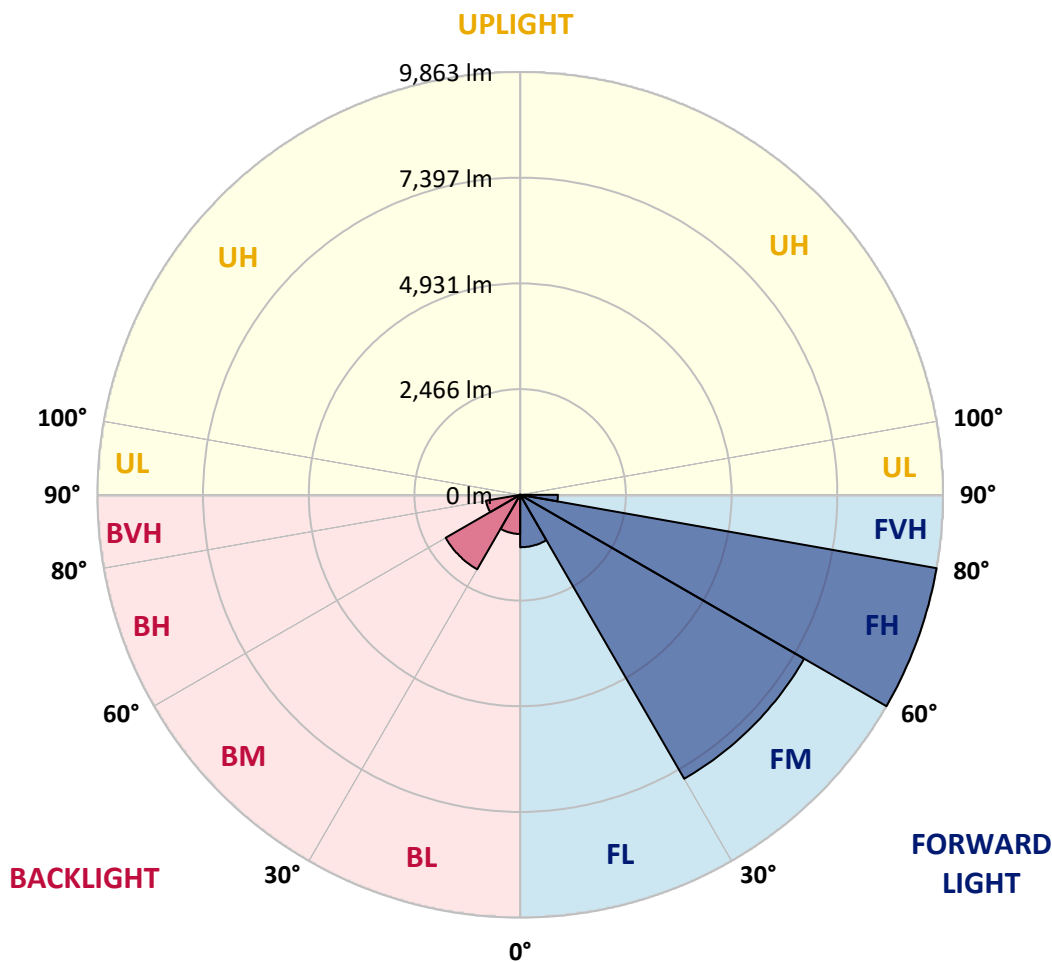
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1222.9	5.2			
FM (30°-60°)	7648.6	32.7			
FH (60°-80°)	9862.9	42.2			G4/12000
FVH (80°-90°)	881.4	3.8			G5
BL (0°-30°)	913.7	3.9	B2/1000		
BM (30°-60°)	2007.0	8.6	B2/2500		
BH (60°-80°)	807.9	3.5	B2/1000		G2/1000
BVH (80°-90°)	23.7	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





REPORT NUMBER: P510000

CATALOG NUMBER: VERD-M-CA3-180-750-U-T4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2446.9	2446.9	2446.9	2446.9	2446.9	2446.9	2446.9	2446.9	2446.9	2446.9	2446.9
2.5°	2449.2	2482.1	2482.1	2472.7	2478.6	2483.3	2448.1	2457.4	2453.9	2452.7	2459.8
5°	2468.0	2504.4	2502.1	2490.3	2495.0	2504.4	2471.5	2485.6	2480.9	2469.2	2471.5
7.5°	2468.0	2498.5	2505.6	2492.7	2515.0	2526.7	2491.5	2504.4	2510.3	2502.1	2493.8
10°	2458.6	2485.6	2495.0	2492.7	2522.0	2540.8	2506.8	2543.2	2547.9	2547.9	2534.9
12.5°	2455.1	2485.6	2498.5	2509.1	2543.2	2563.1	2543.2	2578.4	2601.9	2600.7	2592.5
15°	2457.4	2491.5	2511.5	2529.1	2565.5	2590.1	2581.9	2635.9	2664.1	2672.3	2672.3
17.5°	2516.2	2557.2	2566.6	2585.4	2610.1	2647.7	2637.1	2706.4	2751.0	2765.1	2785.0
20°	2680.5	2712.2	2724.0	2714.6	2725.1	2748.6	2727.5	2794.4	2861.3	2898.9	2931.8
22.5°	2890.7	2914.2	2903.6	2894.2	2888.4	2894.2	2868.4	2913.0	2988.2	3042.2	3098.5
25°	3050.4	3102.0	3093.8	3068.0	3059.8	3066.8	3033.9	3089.1	3158.4	3214.8	3299.3
27.5°	3244.1	3275.8	3253.5	3244.1	3250.0	3248.8	3228.8	3281.7	3345.1	3415.5	3540.0
30°	3454.3	3481.3	3459.0	3449.6	3460.1	3467.2	3444.9	3537.6	3604.6	3680.9	3841.7
32.5°	3799.5	3864.0	3803.0	3680.9	3683.2	3693.8	3696.1	3820.6	3942.7	4002.6	4215.1
35°	4291.4	4343.1	4262.1	4114.1	3929.8	3922.8	3941.5	4127.1	4372.4	4644.8	4893.8
37.5°	4750.5	4825.7	4752.9	4580.3	4356.0	4302.0	4204.5	4425.3	4811.6	5397.5	5707.4
40°	5301.2	5357.5	5213.1	5062.8	4838.6	4762.3	4606.1	4747.0	5276.5	6182.9	6396.6
42.5°	5743.8	5777.9	5658.1	5500.8	5305.9	5248.3	5087.5	5100.4	5773.2	6871.0	7008.4
45°	6153.6	6190.0	6091.4	5957.5	5834.2	5765.0	5647.5	5710.9	6355.5	7596.6	7513.2
47.5°	6464.7	6501.1	6422.5	6327.4	6199.4	6152.4	6154.8	6382.6	7068.2	8176.6	7966.4
50°	6974.3	6960.2	6754.7	6651.4	6551.6	6576.3	6602.1	6926.2	7786.8	8674.4	8385.6
52.5°	7863.1	7793.8	7370.0	7099.9	6976.7	7018.9	7061.2	7492.1	8602.8	9128.8	8707.3
55°	8868.2	8797.7	8437.3	7859.6	7533.2	7601.3	7564.9	8052.2	9288.5	9565.6	8972.7
57.5°	9614.9	9731.2	9593.8	9279.1	8461.9	8372.7	8291.7	8618.1	9842.7	10002.4	9227.5
60°	10264.2	10426.2	10671.6	10585.9	10238.4	10005.9	9262.7	9279.1	10375.8	10305.3	9328.4
62.5°	10898.2	10993.3	11413.7	11506.4	11937.3	12104.1	11349.1	10133.9	10891.2	10515.5	9396.5
65°	10264.2	10386.3	11117.8	11792.9	13185.4	13408.5	13143.2	11681.4	11270.4	10639.9	9317.9
67.5°	9239.2	9313.2	10103.4	11331.5	13838.3	14040.2	13833.6	13102.1	11447.7	10602.4	9073.6
70°	7899.5	8015.8	8791.9	10438.0	13814.8	13922.8	13743.1	13273.5	11380.8	10386.3	8457.2
72.5°	6532.8	6598.6	7256.1	8898.7	13139.6	13230.1	13134.9	13010.5	11155.4	9784.0	7272.5
75°	4910.2	4924.3	5598.2	7027.1	11618.0	12090.0	12206.2	12557.3	10292.4	8386.8	5378.7
77.5°	3292.2	3432.0	4078.9	5370.5	9537.4	10292.4	10843.1	11099.0	8599.3	6259.3	2860.2
80°	1767.1	1802.3	2499.7	3811.2	7247.9	7970.0	8492.5	8497.2	6013.9	3100.9	638.7
82.5°	818.4	784.3	1258.7	2411.7	5020.6	5342.3	5692.2	4768.1	2408.1	529.5	163.2
85°	362.8	382.8	569.5	1175.3	2786.2	3109.1	3064.5	2111.1	422.7	143.2	99.8
87.5°	135.0	142.1	220.7	474.3	994.5	1084.9	975.7	406.2	55.2	50.5	30.5
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: P510000

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2446.9	2446.9	2446.9	2446.9	2446.9	2446.9	2446.9	2446.9	2446.9	2446.9	2446.9
2.5°	2451.6	2451.6	2449.2	2417.5	2410.5	2395.2	2382.3	2391.7	2381.1	2388.2	2381.1
5°	2462.1	2456.3	2442.2	2404.6	2387.0	2352.9	2327.1	2333.0	2318.9	2318.9	2317.7
7.5°	2486.8	2475.1	2450.4	2390.5	2357.6	2308.3	2268.4	2255.5	2241.4	2225.0	2222.6
10°	2526.7	2510.3	2477.4	2395.2	2331.8	2266.1	2196.8	2169.8	2134.6	2108.7	2104.0
12.5°	2581.9	2557.2	2512.6	2412.8	2329.5	2225.0	2132.2	2079.4	2037.1	1999.5	1991.3
15°	2661.7	2637.1	2584.3	2448.1	2330.6	2186.2	2064.1	1976.1	1903.3	1868.0	1869.2
17.5°	2778.0	2760.4	2679.4	2522.0	2352.9	2166.3	2007.8	1868.0	1755.3	1696.6	1688.4
20°	2927.1	2915.4	2816.7	2619.5	2404.6	2169.8	1946.7	1753.0	1587.4	1459.4	1431.3
22.5°	3100.9	3083.3	2962.3	2704.0	2444.5	2160.4	1879.8	1626.2	1377.3	1210.5	1177.6
25°	3294.6	3285.2	3096.2	2778.0	2449.2	2120.5	1783.5	1461.8	1149.5	971.0	942.8
27.5°	3542.3	3487.2	3217.1	2817.9	2438.7	2041.8	1646.1	1236.4	913.5	790.2	759.7
30°	3813.6	3702.0	3334.5	2848.4	2387.0	1916.2	1450.0	975.7	679.8	570.6	555.4
32.5°	4114.1	3947.4	3444.9	2846.1	2295.4	1722.4	1195.3	677.5	459.1	414.5	399.2
35°	4657.8	4374.8	3577.6	2807.3	2141.6	1492.3	844.2	441.5	340.5	313.5	310.0
37.5°	5412.7	4932.5	3756.0	2733.4	1943.2	1224.6	550.7	301.8	291.2	292.4	291.2
40°	6031.5	5554.8	4003.8	2621.8	1693.1	874.7	329.9	268.9	274.7	278.3	279.4
42.5°	6637.3	6062.0	4310.2	2482.1	1431.3	568.3	267.7	257.1	252.4	258.3	260.7
45°	7124.6	6504.7	4599.1	2318.9	1124.8	335.8	259.5	238.3	230.1	232.5	236.0
47.5°	7514.4	6856.9	4772.8	2128.7	821.9	253.6	252.4	221.9	210.2	207.8	206.6
50°	7881.9	7158.6	4884.4	1898.6	523.7	244.2	233.7	203.1	189.0	186.7	186.7
52.5°	8132.0	7355.9	4921.9	1626.2	312.3	238.3	220.7	187.9	169.1	172.6	174.9
55°	8376.2	7555.5	4844.4	1271.6	239.5	223.1	206.6	169.1	153.8	167.9	172.6
57.5°	8492.5	7584.9	4669.5	884.1	232.5	201.9	186.7	151.5	139.7	147.9	147.9
60°	8586.4	7564.9	4425.3	560.1	226.6	187.9	170.2	137.4	123.3	118.6	115.1
62.5°	8524.2	7485.1	3934.5	365.2	210.2	171.4	155.0	126.8	106.8	93.9	92.8
65°	8391.5	7203.3	3140.8	287.7	194.9	163.2	140.9	113.9	93.9	78.7	77.5
67.5°	8000.5	6517.6	2032.4	238.3	186.7	157.3	130.3	105.7	83.4	68.1	66.9
70°	7063.5	5264.8	623.5	213.7	193.7	151.5	128.0	96.3	74.0	59.9	57.5
72.5°	5585.3	3517.7	231.3	177.3	166.7	145.6	124.5	86.9	63.4	50.5	48.1
75°	3597.5	1149.5	196.1	137.4	142.1	138.5	115.1	79.8	54.0	41.1	39.9
77.5°	1019.1	240.7	178.5	101.0	125.6	133.9	101.0	66.9	48.1	35.2	34.0
80°	213.7	171.4	163.2	71.6	93.9	86.9	68.1	51.7	45.8	30.5	30.5
82.5°	139.7	136.2	139.7	49.3	62.2	63.4	54.0	44.6	39.9	28.2	28.2
85°	98.6	124.5	66.9	35.2	29.4	27.0	31.7	38.7	35.2	23.5	23.5
87.5°	34.0	20.0	14.1	14.1	12.9	12.9	15.3	17.6	18.8	18.8	17.6
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)