

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: P510072

Luminaire Tested: **VERD-M-CA4-200-727-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510072
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-CA4-200-727-U-T4-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2700K, 910mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21908 lumens
Efficiency: N/A
Efficacy: 108.6 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

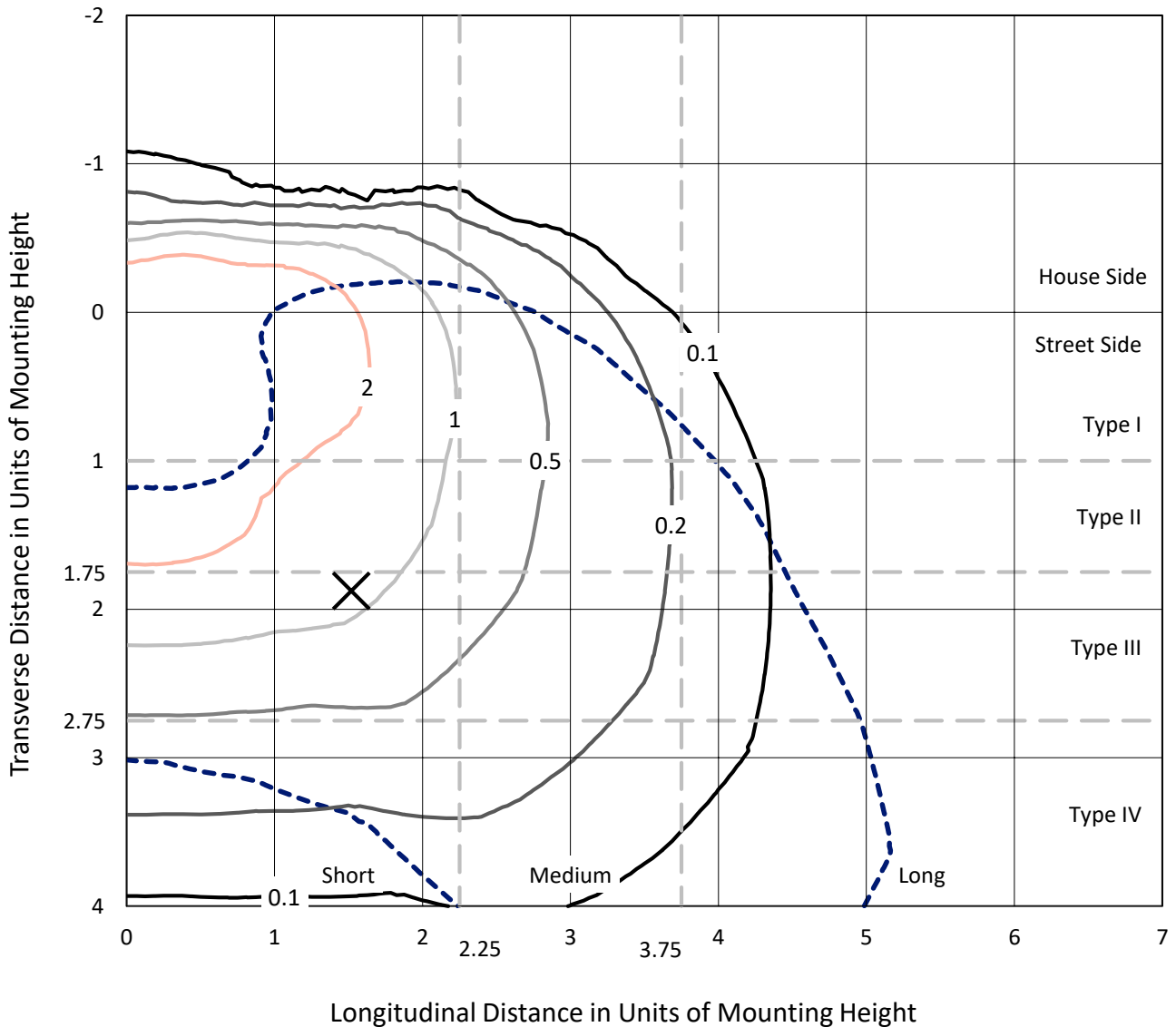
Input Watts (W): 201.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510072
 CATALOG NUMBER: VERD-M-CA4-200-727-U-T4-HSS

Iso-Footcandle Lines of Horizontal Illumination

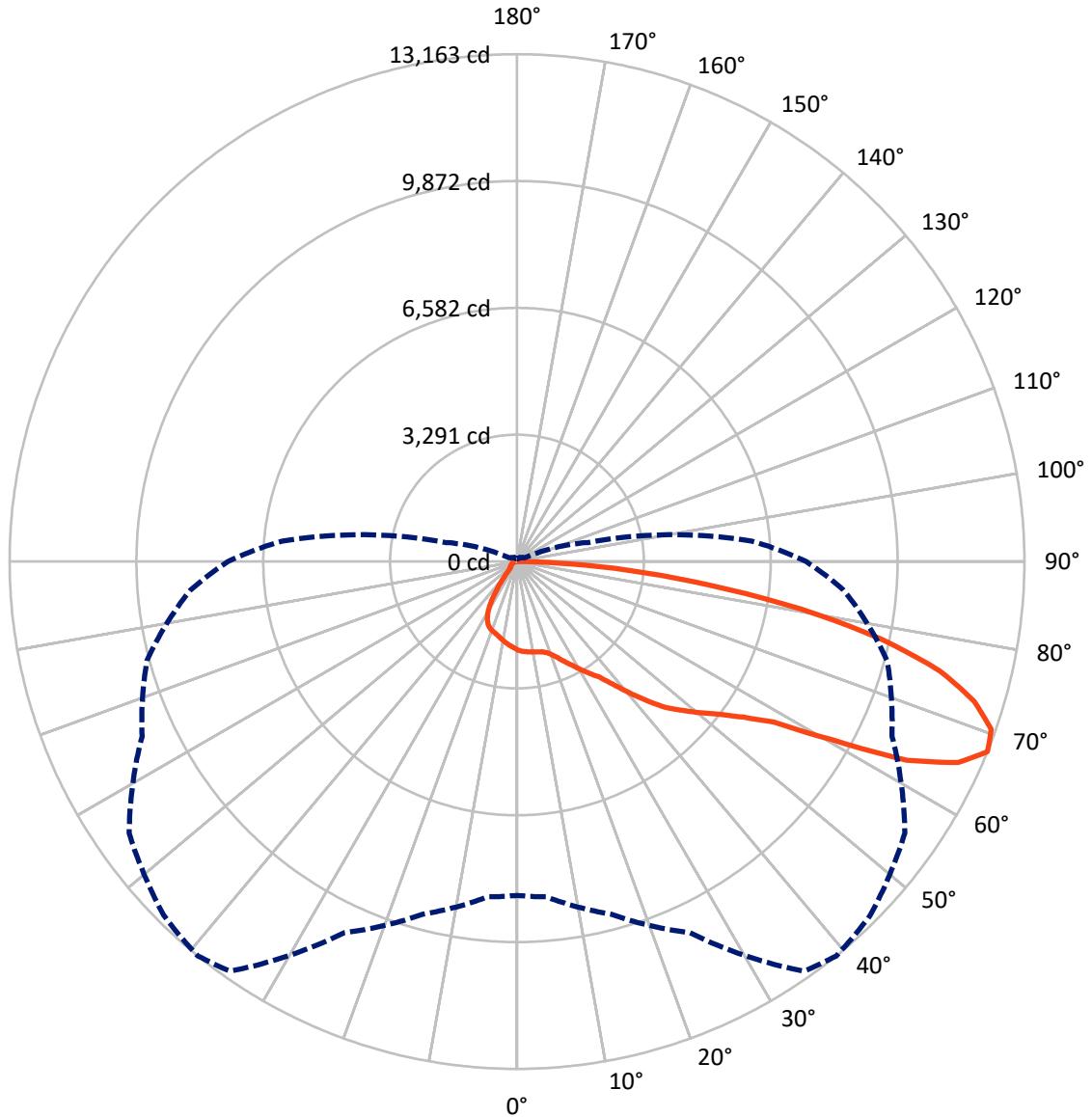
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P510072
CATALOG NUMBER: VERD-M-CA4-200-727-U-T4-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P510072

CATALOG NUMBER: VERD-M-CA4-200-727-U-T4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3517.9	0.0	3517.9
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	18390.1	0.0	18390.1
	% Fixture	83.9	0.0	83.9
Total	Lumens	21908.0	0.0	21908.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.6	1.0
10°-20°	644.6	2.9
20°-30°	1142.0	5.2
30°-40°	1829.1	8.3
40°-50°	2934.2	13.4
50°-60°	4289.0	19.6
60°-70°	5715.3	26.1
70°-80°	4288.8	19.6
80°-90°	848.5	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°	21908.0	100.0
0°-180°	21908.0	100.0

Coefficient of Utilization



REPORT NUMBER: P510072

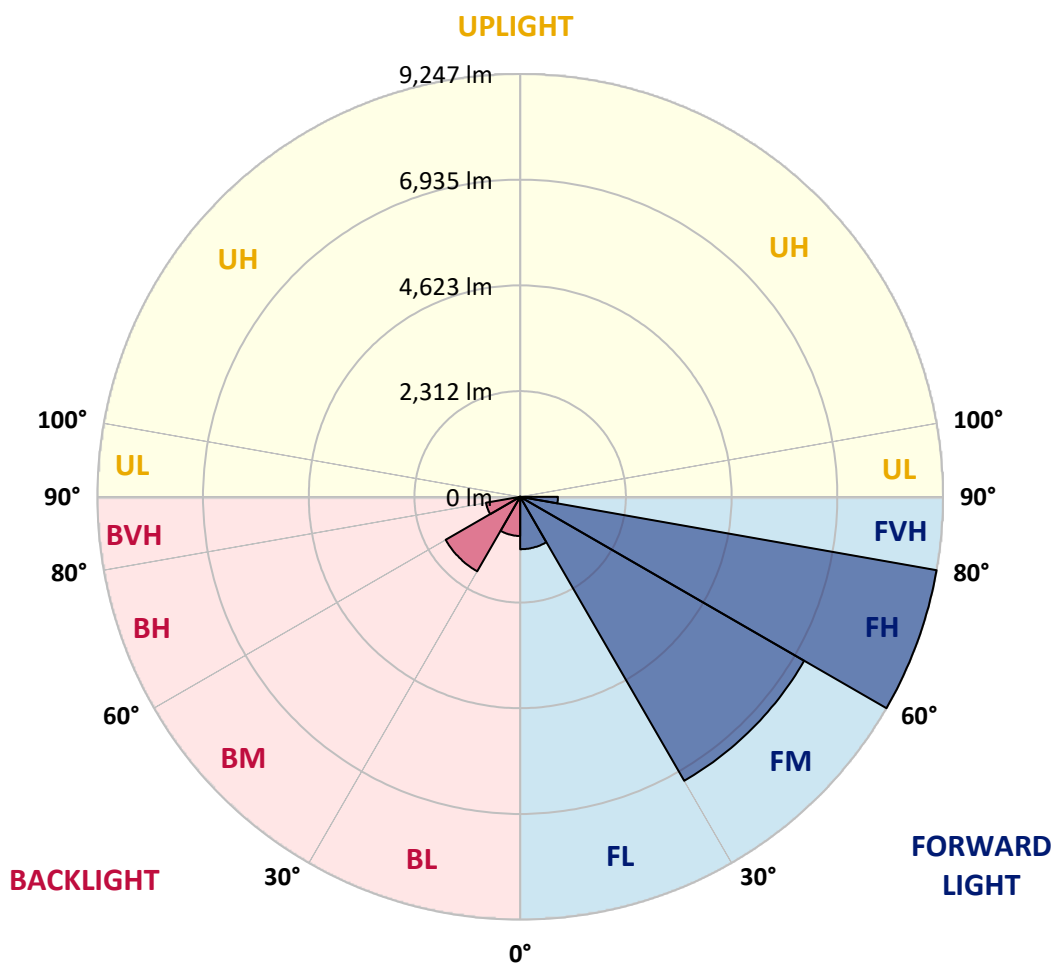
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1146.5	5.2			
FM	(30°-60°)	7170.7	32.7			
FH	(60°-80°)	9246.6	42.2			G4/12000
FVH	(80°-90°)	826.3	3.8			G5
BL	(0°-30°)	856.6	3.9	B2/1000		
BM	(30°-60°)	1881.6	8.6	B2/2500		
BH	(60°-80°)	757.5	3.5	B2/1000		G2/1000
BVH	(80°-90°)	22.2	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: P510072

CATALOG NUMBER: VERD-M-CA4-200-727-U-T4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2294.0	2294.0	2294.0	2294.0	2294.0	2294.0	2294.0	2294.0	2294.0	2294.0	2294.0
2.5°	2296.2	2327.0	2327.0	2318.2	2323.7	2328.1	2295.1	2303.9	2300.6	2299.5	2306.1
5°	2313.8	2347.9	2345.7	2334.7	2339.1	2347.9	2317.1	2330.3	2325.9	2314.9	2317.1
7.5°	2313.8	2342.4	2349.0	2336.9	2357.8	2368.9	2335.8	2347.9	2353.4	2345.7	2338.0
10°	2305.0	2330.3	2339.1	2336.9	2364.5	2382.1	2350.1	2384.3	2388.7	2388.7	2376.6
12.5°	2301.7	2330.3	2342.4	2352.3	2384.3	2403.0	2384.3	2417.3	2439.3	2438.2	2430.5
15°	2303.9	2335.8	2354.5	2371.1	2405.2	2428.3	2420.6	2471.2	2497.6	2505.3	2505.3
17.5°	2358.9	2397.5	2406.3	2423.9	2447.0	2482.2	2472.3	2537.3	2579.1	2592.3	2611.0
20°	2513.1	2542.8	2553.8	2545.0	2554.9	2576.9	2557.1	2619.8	2682.6	2717.8	2748.6
22.5°	2710.1	2732.1	2722.2	2713.4	2707.9	2713.4	2689.2	2731.0	2801.5	2852.1	2904.9
25°	2859.8	2908.2	2900.5	2876.3	2868.6	2875.2	2844.4	2896.1	2961.1	3013.9	3093.2
27.5°	3041.4	3071.1	3050.2	3041.4	3046.9	3045.8	3027.1	3076.6	3136.1	3202.1	3318.8
30°	3238.5	3263.8	3242.9	3234.1	3244.0	3250.6	3229.7	3316.6	3379.4	3450.9	3601.7
32.5°	3562.1	3622.6	3565.4	3450.9	3453.1	3463.0	3465.2	3581.9	3696.4	3752.5	3951.8
35°	4023.3	4071.7	3995.8	3857.1	3684.3	3677.7	3695.3	3869.2	4099.3	4354.6	4588.0
37.5°	4453.7	4524.2	4455.9	4294.1	4083.9	4033.2	3941.9	4148.8	4510.9	5060.2	5350.8
40°	4970.0	5022.8	4887.4	4746.5	4536.3	4464.7	4318.3	4450.4	4946.9	5796.6	5997.0
42.5°	5385.0	5416.9	5304.6	5157.1	4974.4	4920.4	4769.6	4781.7	5412.5	6441.7	6570.5
45°	5769.1	5803.3	5710.8	5585.3	5469.7	5404.8	5294.7	5354.1	5958.5	7122.0	7043.8
47.5°	6060.8	6095.0	6021.2	5932.0	5812.1	5768.0	5770.2	5983.8	6626.6	7665.8	7468.7
50°	6538.6	6525.4	6332.7	6235.9	6142.3	6165.4	6189.6	6493.4	7300.3	8132.5	7861.7
52.5°	7371.8	7306.9	6909.5	6656.3	6540.8	6580.4	6620.0	7024.0	8065.3	8558.5	8163.3
55°	8314.1	8248.1	7910.1	7368.5	7062.5	7126.4	7092.3	7549.1	8708.2	8968.0	8412.1
57.5°	9014.2	9123.2	8994.4	8699.4	7933.2	7849.6	7773.6	8079.6	9227.7	9377.4	8650.9
60°	9622.9	9774.8	10004.9	9924.5	9598.7	9380.7	8684.0	8699.4	9727.5	9661.4	8745.6
62.5°	10217.3	10306.5	10700.6	10787.5	11191.5	11347.8	10640.0	9500.7	10210.7	9858.5	8809.4
65°	9622.9	9737.4	10423.2	11056.1	12361.6	12570.8	12322.0	10951.5	10566.3	9975.2	8735.7
67.5°	8661.9	8731.3	9472.1	10623.5	12973.7	13163.0	12969.3	12283.5	10732.5	9939.9	8506.7
70°	7406.0	7514.9	8242.6	9785.8	12951.6	13052.9	12884.5	12444.2	10669.7	9737.4	7928.8
72.5°	6124.7	6186.3	6802.7	8342.7	12318.7	12403.5	12314.3	12197.6	10458.4	9172.7	6818.2
75°	4603.4	4616.6	5248.5	6588.1	10892.1	11334.6	11443.6	11772.7	9649.3	7862.8	5042.6
77.5°	3086.6	3217.5	3824.1	5034.9	8941.5	9649.3	10165.6	10405.6	8062.0	5868.2	2681.5
80°	1656.7	1689.7	2343.5	3573.1	6795.0	7472.0	7961.9	7966.3	5638.1	2907.1	598.8
82.5°	767.2	735.3	1180.0	2261.0	4706.9	5008.5	5336.5	4470.2	2257.7	496.4	153.0
85°	340.1	358.9	533.9	1101.9	2612.1	2914.8	2873.0	1979.2	396.3	134.3	93.6
87.5°	126.6	133.2	206.9	444.7	932.4	1017.1	914.7	380.9	51.7	47.3	28.6
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°	2294.0	2294.0	2294.0	2294.0	2294.0	2294.0	2294.0	2294.0	2294.0	2294.0	2294.0
2.5°	2298.4	2298.4	2296.2	2266.5	2259.9	2245.6	2233.5	2242.3	2232.4	2239.0	2232.4
5°	2308.3	2302.8	2289.6	2254.4	2237.9	2205.9	2181.7	2187.2	2174.0	2174.0	2172.9
7.5°	2331.4	2320.4	2297.3	2241.2	2210.3	2164.1	2126.7	2114.6	2101.4	2086.0	2083.8
10°	2368.9	2353.4	2322.6	2245.6	2186.1	2124.5	2059.5	2034.2	2001.2	1977.0	1972.6
12.5°	2420.6	2397.5	2355.6	2262.1	2183.9	2086.0	1999.0	1949.5	1909.8	1874.6	1866.9
15°	2495.4	2472.3	2422.8	2295.1	2185.0	2049.6	1935.2	1852.6	1784.3	1751.3	1752.4
17.5°	2604.4	2587.9	2512.0	2364.5	2205.9	2030.9	1882.3	1751.3	1645.6	1590.6	1582.9
20°	2744.2	2733.2	2640.7	2455.8	2254.4	2034.2	1825.1	1643.4	1488.2	1368.3	1341.8
22.5°	2907.1	2890.6	2777.2	2535.1	2291.8	2025.4	1762.3	1524.6	1291.2	1134.9	1104.1
25°	3088.8	3080.0	2902.7	2604.4	2296.2	1988.0	1672.1	1370.5	1077.7	910.3	883.9
27.5°	3321.0	3269.3	3016.1	2641.8	2286.3	1914.2	1543.3	1159.1	856.4	740.8	712.2
30°	3575.3	3470.7	3126.2	2670.5	2237.9	1796.5	1359.4	914.7	637.3	535.0	520.7
32.5°	3857.1	3700.8	3229.7	2668.3	2152.0	1614.8	1120.6	635.1	430.4	388.6	374.3
35°	4366.7	4101.5	3354.0	2631.9	2007.8	1399.1	791.5	413.9	319.2	293.9	290.6
37.5°	5074.5	4624.3	3521.4	2562.6	1821.8	1148.1	516.3	282.9	273.0	274.1	273.0
40°	5654.6	5207.7	3753.6	2458.0	1587.3	820.1	309.3	252.1	257.6	260.9	262.0
42.5°	6222.6	5683.3	4040.9	2327.0	1341.8	532.8	251.0	241.1	236.7	242.2	244.4
45°	6679.5	6098.3	4311.7	2174.0	1054.5	314.8	243.3	223.5	215.8	218.0	221.3
47.5°	7044.9	6428.5	4474.6	1995.7	770.5	237.8	236.7	208.0	197.0	194.8	193.7
50°	7389.5	6711.4	4579.2	1779.9	490.9	229.0	219.1	190.4	177.2	175.0	175.0
52.5°	7623.9	6896.3	4614.4	1524.6	292.8	223.5	206.9	176.1	158.5	161.8	164.0
55°	7852.9	7083.4	4541.8	1192.1	224.6	209.1	193.7	158.5	144.2	157.4	161.8
57.5°	7961.9	7111.0	4377.8	828.9	218.0	189.3	175.0	142.0	131.0	138.7	138.7
60°	8049.9	7092.3	4148.8	525.1	212.4	176.1	159.6	128.8	115.6	111.2	107.9
62.5°	7991.6	7017.4	3688.7	342.3	197.0	160.7	145.3	118.9	100.2	88.1	87.0
65°	7867.2	6753.2	2944.6	269.7	182.7	153.0	132.1	106.8	88.1	73.8	72.7
67.5°	7500.6	6110.4	1905.4	223.5	175.0	147.5	122.2	99.1	78.2	63.8	62.7
70°	6622.2	4935.8	584.5	200.3	181.6	142.0	120.0	90.3	69.3	56.1	53.9
72.5°	5236.4	3297.9	216.9	166.2	156.3	136.5	116.7	81.5	59.4	47.3	45.1
75°	3372.8	1077.7	183.8	128.8	133.2	129.9	107.9	74.9	50.6	38.5	37.4
77.5°	955.5	225.7	167.3	94.7	117.8	125.5	94.7	62.7	45.1	33.0	31.9
80°	200.3	160.7	153.0	67.1	88.1	81.5	63.8	48.4	42.9	28.6	28.6
82.5°	131.0	127.7	131.0	46.2	58.3	59.4	50.6	41.8	37.4	26.4	26.4
85°	92.5	116.7	62.7	33.0	27.5	25.3	29.7	36.3	33.0	22.0	22.0
87.5°	31.9	18.7	13.2	13.2	12.1	12.1	14.3	16.5	17.6	17.6	16.5
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)