

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: P509820

Luminaire Tested: **VERD-M-CA3-150-722-U-T2-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509820  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA3-150-722-U-T2-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2200K, 940mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16502 lumens  
Efficiency: N/A  
Efficacy: 107.9 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

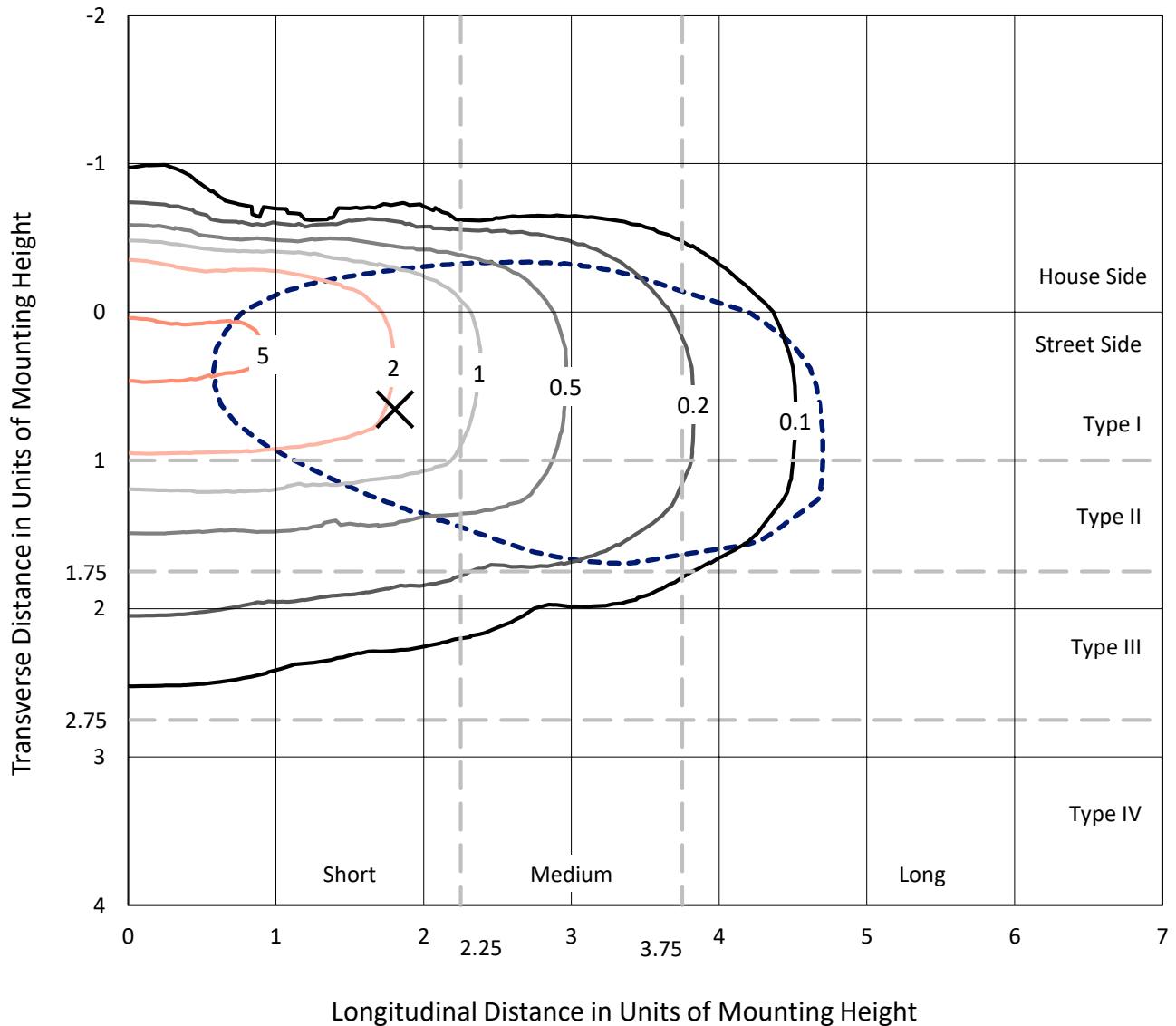
Input Watts (W): 153  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P509820  
 CATALOG NUMBER: VERD-M-CA3-150-722-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

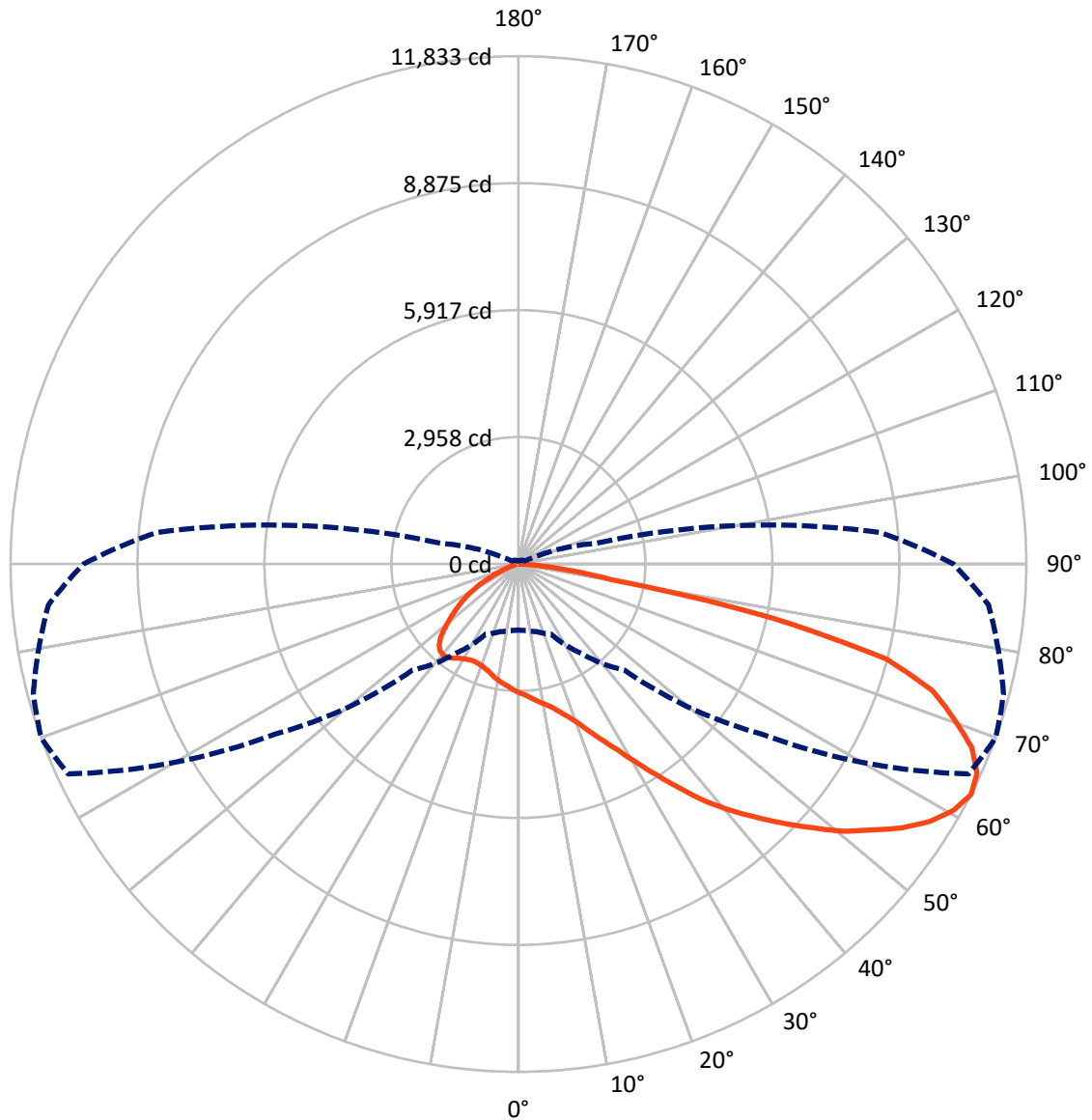
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type II - Short - N/A

REPORT NUMBER: P509820  
CATALOG NUMBER: VERD-M-CA3-150-722-U-T2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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CATALOG NUMBER: VERD-M-CA3-150-722-U-T2-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3470.2	0.0	3470.2
	% Fixture	21.0	0.0	21.0
<b>Street Side</b>	Lumens	13031.8	0.0	13031.8
	% Fixture	79.0	0.0	79.0
<b>Total</b>	Lumens	16502.0	0.0	16502.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	284.8	1.7
10°-20°	850.0	5.2
20°-30°	1441.0	8.7
30°-40°	2119.1	12.8
40°-50°	2822.0	17.1
50°-60°	3301.2	20.0
60°-70°	3320.2	20.1
70°-80°	2101.7	12.7
80°-90°	261.9	1.6
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°	16502.0	100.0
0°-180°	16502.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P509820

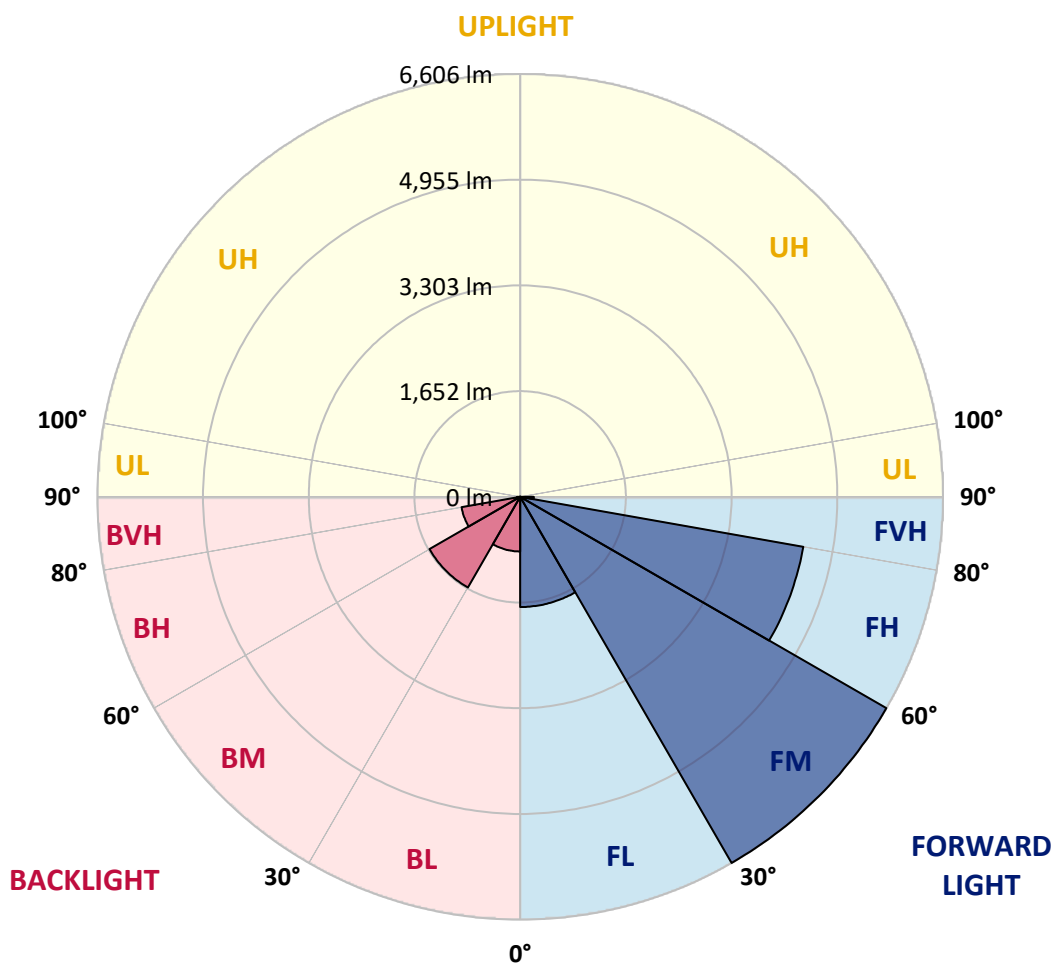
CATALOG NUMBER: VERD-M-CA3-150-722-U-T2-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1721.5	10.4			
FM (30°-60°)	6606.1	40.0			
FH (60°-80°)	4491.8	27.2			G2/5000
FVH (80°-90°)	212.4	1.3			G2/225
BL (0°-30°)	854.4	5.2	B2/1000		
BM (30°-60°)	1636.3	9.9	B2/2500		
BH (60°-80°)	930.1	5.6	B2/1000		G2/1000
BVH (80°-90°)	49.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





REPORT NUMBER: P509820

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3000.0	3000.0	3000.0	3000.0	3000.0	3000.0	3000.0	3000.0	3000.0	3000.0	3000.0
2.5°	3164.7	3192.4	3171.2	3163.0	3169.5	3136.9	3110.9	3073.4	3055.4	3042.4	3021.2
5°	3325.2	3370.9	3343.1	3326.0	3323.6	3264.1	3229.0	3177.7	3137.8	3102.7	3048.9
7.5°	3494.7	3521.6	3511.0	3491.5	3478.4	3405.9	3344.0	3271.4	3227.4	3181.0	3090.5
10°	3643.1	3675.7	3665.1	3630.0	3617.8	3543.6	3472.7	3374.1	3313.8	3255.9	3131.2
12.5°	3796.3	3833.0	3811.0	3775.9	3765.3	3690.3	3617.0	3497.2	3422.2	3357.0	3184.2
15°	3937.3	3970.7	3955.2	3915.3	3904.7	3841.1	3760.4	3648.8	3567.3	3480.9	3259.2
17.5°	4049.7	4083.2	4063.6	4044.9	4041.6	3978.8	3930.8	3816.7	3739.2	3621.9	3374.1
20°	4132.1	4166.3	4156.5	4165.5	4199.7	4153.3	4123.9	4027.7	3948.7	3821.5	3539.6
22.5°	4197.3	4241.3	4280.4	4298.3	4361.9	4358.6	4352.1	4295.1	4233.1	4101.1	3736.8
25°	4203.8	4254.3	4331.7	4415.7	4531.4	4586.8	4627.6	4618.6	4546.1	4415.7	4009.8
27.5°	4213.6	4265.7	4345.6	4489.9	4696.9	4826.4	4894.1	4935.7	4893.3	4806.1	4320.3
30°	4192.4	4246.2	4346.4	4530.6	4810.1	5050.6	5171.2	5325.2	5330.1	5256.8	4789.0
32.5°	4096.2	4167.1	4288.5	4535.5	4920.2	5284.5	5470.3	5766.1	5830.5	5775.9	5272.3
35°	3935.6	4000.0	4173.6	4492.3	4987.0	5479.3	5819.1	6280.4	6375.8	6372.5	5841.1
37.5°	3758.0	3823.2	4018.8	4390.4	5030.2	5652.9	6126.4	6790.6	6980.5	6940.6	6378.2
40°	3561.6	3630.0	3855.8	4262.5	5009.0	5807.7	6451.6	7285.3	7520.8	7525.7	6891.7
42.5°	3333.4	3389.6	3616.2	4085.6	4938.9	5921.8	6753.9	7806.1	8053.9	8040.0	7375.8
45°	3114.9	3173.6	3371.7	3811.8	4776.7	5985.4	7050.6	8333.4	8604.8	8560.8	7913.7
47.5°	2850.9	2934.8	3160.6	3581.9	4526.5	5980.5	7309.8	8872.9	9177.7	9141.9	8378.2
50°	2194.0	2243.7	2754.7	3344.8	4187.5	5866.4	7563.2	9402.7	9788.2	9718.1	8873.8
52.5°	1976.4	2021.2	2185.8	3060.3	3879.4	5619.4	7774.3	10009.1	10297.6	10243.0	9379.9
55°	1868.0	1892.4	1992.7	2524.1	3578.7	5218.5	7915.3	10547.8	10847.7	10727.1	9853.4
57.5°	1731.9	1762.0	1878.6	2155.7	3208.7	4603.1	7882.7	11033.5	11310.6	11125.6	10270.7
60°	1627.6	1650.4	1759.6	1940.5	2826.4	3965.8	7549.4	11510.3	11649.7	11467.1	10686.3
62.5°	1539.5	1552.6	1629.2	1801.2	2535.5	3500.4	6899.0	11573.9	11833.0	11701.0	10996.0
65°	1430.3	1433.6	1524.1	1658.5	2266.5	3220.9	6340.7	11247.9	11741.7	11697.7	11107.7
67.5°	1302.4	1308.9	1400.2	1502.9	1943.0	2923.4	5471.1	11072.6	11387.2	11359.5	10886.8
70°	1141.8	1154.9	1238.8	1317.0	1645.5	2566.4	4354.6	10379.9	10753.1	10712.4	10159.0
72.5°	987.0	979.6	1057.9	1135.3	1370.8	2142.6	3300.8	9187.5	10086.5	10047.4	9213.6
75°	810.9	806.0	886.7	960.1	1123.9	1731.1	2321.9	6794.7	8862.3	8983.0	7944.6
77.5°	499.6	503.7	550.1	599.0	761.2	1293.4	1481.7	3780.0	6020.4	7139.4	6234.8
80°	361.9	361.9	396.1	425.4	503.7	788.1	737.6	1576.2	2200.5	3445.8	3888.4
82.5°	234.7	224.9	246.1	271.4	280.4	341.5	337.4	790.6	1121.4	1349.6	1619.4
85°	122.3	135.3	81.5	114.9	121.4	113.3	116.5	370.8	498.0	638.1	702.5
87.5°	18.7	14.7	19.6	26.9	31.0	26.1	22.8	43.2	66.8	88.8	105.1
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: P509820

CATALOG NUMBER: VERD-M-CA3-150-722-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3000.0	3000.0	3000.0	3000.0	3000.0	3000.0	3000.0	3000.0	3000.0	3000.0	3000.0
2.5°	3007.4	3003.3	2965.8	2911.2	2866.4	2828.9	2804.4	2788.1	2806.1	2773.5	2769.4
5°	3015.5	2987.8	2906.3	2828.1	2767.8	2687.1	2632.5	2595.8	2610.5	2581.9	2570.5
7.5°	3037.5	2987.0	2874.5	2749.8	2635.7	2549.3	2465.4	2384.7	2372.5	2354.5	2355.4
10°	3057.1	2984.5	2837.8	2674.8	2542.0	2389.6	2288.5	2205.4	2186.7	2165.5	2154.9
12.5°	3088.0	2990.2	2792.2	2595.0	2417.3	2241.3	2132.0	2034.2	2015.5	1973.9	1965.0
15°	3150.0	3010.6	2747.4	2496.4	2277.1	2099.4	1958.5	1872.9	1838.6	1792.2	1791.4
17.5°	3230.7	3070.1	2724.6	2403.4	2158.1	1959.3	1810.1	1723.7	1665.9	1638.2	1630.8
20°	3345.6	3147.5	2723.7	2319.5	2034.2	1809.3	1638.2	1540.4	1491.5	1468.6	1454.8
22.5°	3522.4	3261.6	2738.4	2260.8	1909.6	1664.2	1493.9	1359.4	1278.7	1216.0	1224.9
25°	3742.5	3432.8	2771.8	2207.0	1801.2	1525.7	1312.2	1125.5	981.3	918.5	923.4
27.5°	4022.0	3637.4	2858.2	2152.4	1678.1	1376.5	1075.0	837.8	728.6	655.3	661.0
30°	4379.8	3891.6	2971.5	2110.0	1564.0	1167.9	809.3	617.8	521.6	461.3	455.6
32.5°	4807.7	4260.0	3095.4	2081.5	1439.3	907.1	583.5	453.1	359.4	325.2	330.1
35°	5337.5	4674.0	3284.5	2040.0	1225.8	645.5	416.5	306.4	258.4	251.8	252.7
37.5°	5820.8	5097.8	3471.9	1969.9	967.4	458.8	282.8	233.1	222.5	220.1	223.3
40°	6294.3	5484.2	3641.4	1868.0	665.0	314.6	207.8	210.3	201.3	194.8	191.5
42.5°	6737.6	5856.6	3774.3	1680.5	454.8	207.8	184.2	191.5	189.9	176.9	171.2
45°	7216.0	6250.3	3847.6	1418.1	286.1	176.9	165.4	178.5	186.6	172.0	165.4
47.5°	7624.4	6634.1	3844.4	1086.4	194.0	167.1	155.7	167.1	176.9	166.3	160.6
50°	8095.4	6952.0	3740.0	689.5	172.0	154.9	149.1	153.2	166.3	158.9	153.2
52.5°	8618.7	7387.2	3581.9	384.7	163.0	146.7	138.6	143.4	154.9	145.9	149.1
55°	9052.2	7748.2	3210.3	262.4	158.9	136.9	132.0	135.3	140.2	131.2	136.1
57.5°	9439.4	8046.5	2834.6	215.2	153.2	130.4	129.6	123.1	122.3	116.5	111.7
60°	9831.4	8282.1	2327.6	194.8	147.5	131.2	117.4	108.4	101.1	95.4	92.9
62.5°	10132.1	8445.1	1841.1	176.0	139.4	123.1	107.6	92.9	80.7	73.4	73.4
65°	10220.1	8372.5	1295.9	159.7	130.4	115.7	96.2	75.8	61.1	56.2	53.8
67.5°	9938.1	7956.1	902.2	147.5	121.4	107.6	84.8	61.9	48.9	42.4	40.8
70°	9220.1	7259.2	532.2	130.4	110.0	93.7	77.4	50.5	39.9	33.4	31.8
72.5°	8159.0	6214.4	331.7	110.8	94.5	76.6	57.9	41.6	31.8	26.1	25.3
75°	6739.3	4844.4	216.8	85.6	75.0	60.3	44.0	33.4	27.7	22.0	20.4
77.5°	5404.3	3427.1	194.0	65.2	55.4	43.2	33.4	27.7	22.8	19.6	19.6
80°	3110.1	1956.0	158.9	44.8	34.2	32.6	26.1	22.8	21.2	18.7	17.9
82.5°	1528.1	939.7	102.7	27.7	19.6	21.2	22.0	20.4	17.9	16.3	16.3
85°	526.5	313.0	41.6	17.9	13.0	13.0	13.9	14.7	13.9	13.0	13.0
87.5°	81.5	59.5	11.4	10.6	8.2	7.3	8.2	9.0	9.0	8.2	8.2
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)