

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: P509828

Luminaire Tested: **VERD-M-CA3-150-727-U-T2-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509828  
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-CA3-150-727-U-T2-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 940mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17146 lumens  
Efficiency: N/A  
Efficacy: 112.1 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

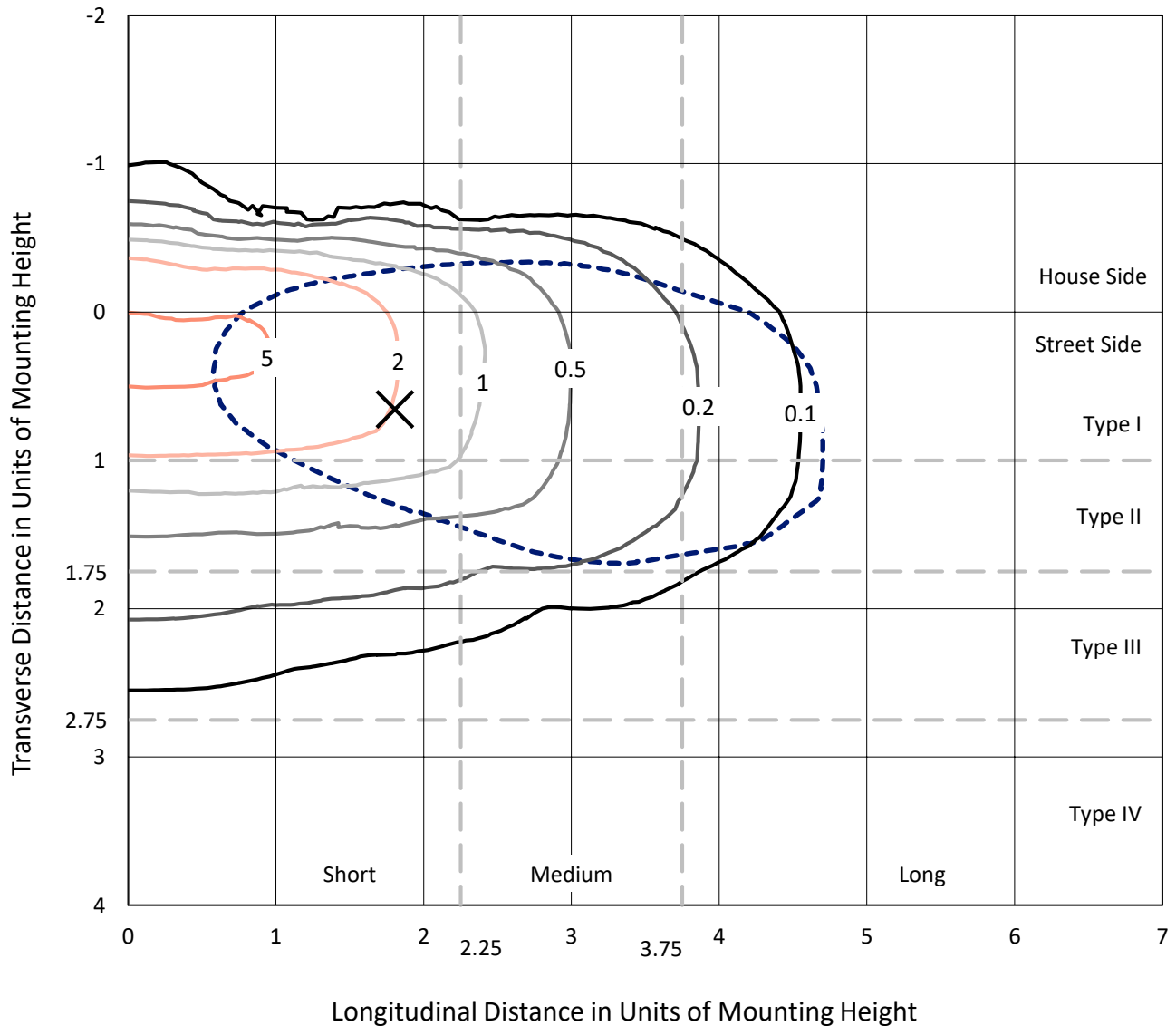
Input Watts (W): 153  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

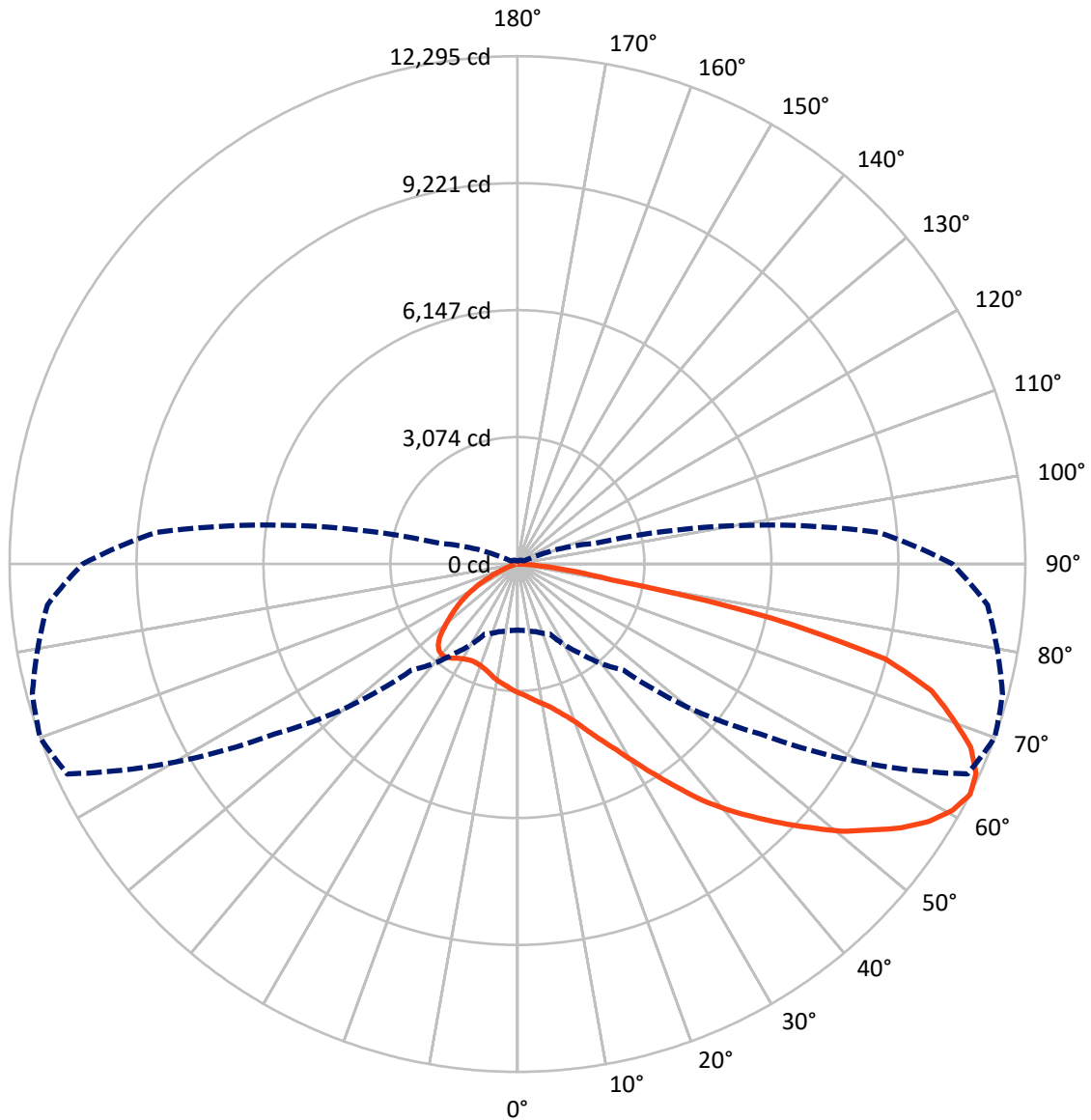
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P509828  
CATALOG NUMBER: VERD-M-CA3-150-727-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-CA3-150-727-U-T2-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3605.6	0.0	3605.6
	% Fixture	21.0	0.0	21.0
<b>Street Side</b>	Lumens	13540.4	0.0	13540.4
	% Fixture	79.0	0.0	79.0
<b>Total</b>	Lumens	17146.0	0.0	17146.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.0	1.7
10°-20°	883.2	5.2
20°-30°	1497.3	8.7
30°-40°	2201.8	12.8
40°-50°	2932.1	17.1
50°-60°	3430.0	20.0
60°-70°	3449.7	20.1
70°-80°	2183.8	12.7
80°-90°	272.1	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°	17146.0	100.0
0°-180°	17146.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P509828

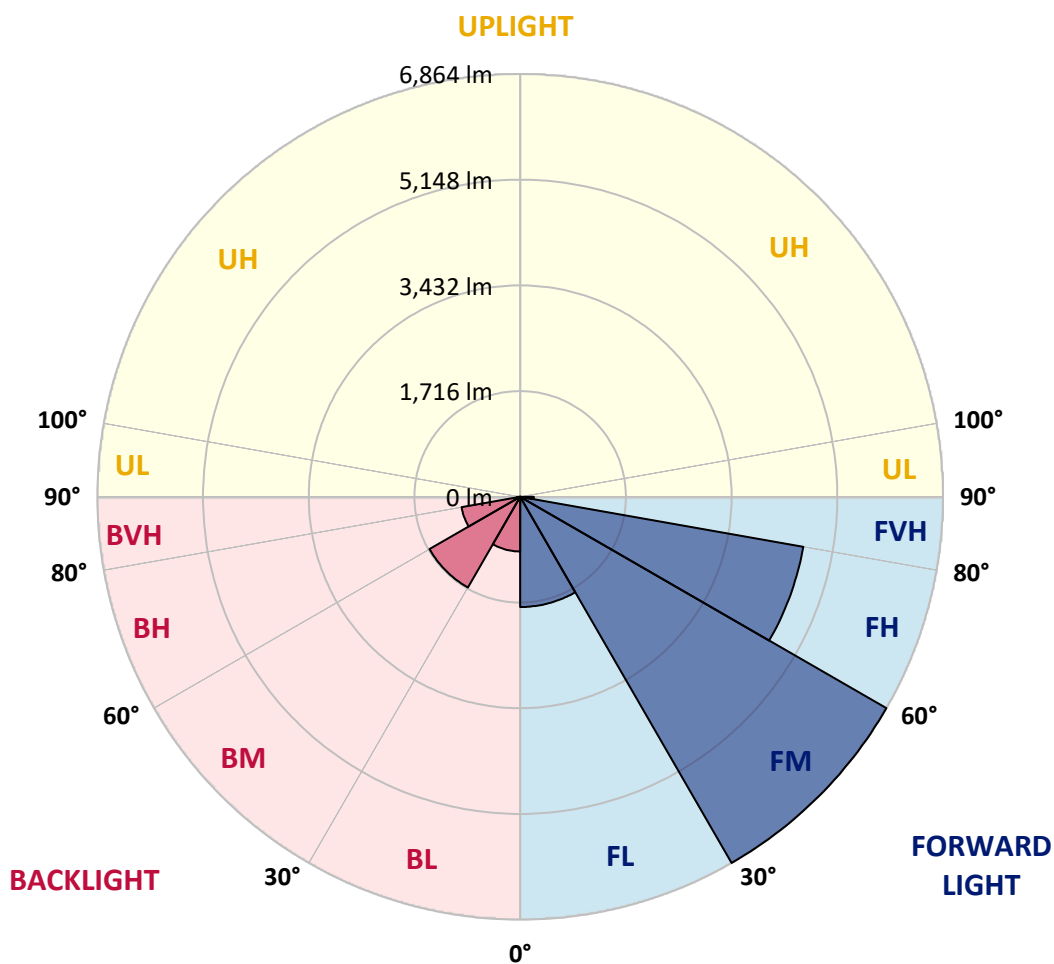
CATALOG NUMBER: VERD-M-CA3-150-727-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1788.7	10.4			
FM (30°-60°)	6863.9	40.0			
FH (60°-80°)	4667.1	27.2			G2/5000
FVH (80°-90°)	220.7	1.3			G2/225
BL (0°-30°)	887.7	5.2	B2/1000		
BM (30°-60°)	1700.1	9.9	B2/2500		
BH (60°-80°)	966.4	5.6	B2/1000		G2/1000
BVH (80°-90°)	51.4	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: P509828

CATALOG NUMBER: VERD-M-CA3-150-727-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3117.1	3117.1	3117.1	3117.1	3117.1	3117.1	3117.1	3117.1	3117.1	3117.1	3117.1
2.5°	3288.2	3317.0	3294.9	3286.5	3293.2	3259.4	3232.3	3193.3	3174.7	3161.1	3139.1
5°	3455.0	3502.4	3473.6	3455.8	3453.3	3391.5	3355.1	3301.7	3260.2	3223.8	3167.9
7.5°	3631.1	3659.1	3648.1	3627.7	3614.2	3538.8	3474.5	3399.1	3353.4	3305.1	3211.1
10°	3785.2	3819.1	3808.1	3771.7	3759.0	3681.9	3608.3	3505.8	3443.1	3383.0	3253.4
12.5°	3944.4	3982.5	3959.7	3923.3	3912.3	3834.4	3758.1	3633.7	3555.8	3488.0	3308.5
15°	4090.9	4125.7	4109.6	4068.1	4057.1	3991.0	3907.2	3791.2	3706.5	3616.7	3386.4
17.5°	4207.8	4242.5	4222.2	4202.7	4199.3	4134.1	4084.2	3965.6	3885.2	3763.2	3505.8
20°	4293.3	4328.9	4318.7	4328.0	4363.6	4315.3	4284.9	4184.9	4102.8	3970.7	3677.7
22.5°	4361.1	4406.8	4447.4	4466.1	4532.1	4528.7	4522.0	4462.7	4398.3	4261.1	3882.6
25°	4367.8	4420.3	4500.8	4588.0	4708.3	4765.8	4808.2	4798.9	4723.5	4588.0	4166.3
27.5°	4378.0	4432.2	4515.2	4665.1	4880.2	5014.8	5085.1	5128.3	5084.2	4993.6	4488.9
30°	4356.0	4411.9	4516.0	4707.4	4997.9	5247.7	5373.0	5533.0	5538.1	5461.9	4975.8
32.5°	4256.1	4329.7	4455.9	4712.5	5112.2	5490.7	5683.8	5991.2	6058.1	6001.3	5478.0
35°	4089.2	4156.1	4336.5	4667.6	5181.6	5693.1	6046.2	6525.5	6624.6	6621.2	6069.1
37.5°	3904.6	3972.4	4175.6	4561.8	5226.5	5873.5	6365.5	7055.6	7252.9	7211.4	6627.1
40°	3700.6	3771.7	4006.3	4428.8	5204.5	6034.4	6703.3	7569.6	7814.4	7819.4	7160.6
42.5°	3463.4	3521.9	3757.3	4245.1	5131.7	6152.9	7017.5	8110.7	8368.2	8353.8	7663.6
45°	3236.5	3297.5	3503.2	3960.5	4963.1	6219.0	7325.7	8658.6	8940.6	8894.9	8222.5
47.5°	2962.1	3049.4	3283.9	3721.7	4703.2	6213.9	7595.0	9219.2	9535.9	9498.7	8705.2
50°	2279.6	2331.3	2862.2	3475.3	4350.9	6095.3	7858.4	9769.6	10170.2	10097.3	9220.1
52.5°	2053.5	2100.1	2271.1	3179.8	4030.8	5838.7	8077.7	10399.7	10699.4	10642.7	9745.9
55°	1940.9	1966.3	2070.4	2622.6	3718.3	5422.1	8224.2	10959.4	11271.0	11145.7	10237.9
57.5°	1799.5	1830.8	1951.9	2239.8	3333.9	4782.8	8190.3	11464.1	11752.0	11559.8	10671.5
60°	1691.1	1714.8	1828.3	2016.3	2936.7	4120.6	7844.0	11959.5	12104.3	11914.6	11103.4
62.5°	1599.6	1613.2	1692.8	1871.4	2634.4	3637.0	7168.2	12025.5	12294.8	12157.6	11425.1
65°	1486.1	1489.5	1583.5	1723.3	2355.0	3346.6	6588.2	11686.8	12200.0	12154.2	11541.2
67.5°	1353.2	1360.0	1454.8	1561.5	2018.8	3037.5	5684.6	11504.7	11831.6	11802.8	11311.7
70°	1186.4	1199.9	1287.1	1368.4	1709.7	2666.6	4524.5	10785.0	11172.8	11130.5	10555.5
72.5°	1025.5	1017.9	1099.2	1179.6	1424.3	2226.3	3429.6	9546.1	10480.1	10439.5	9573.2
75°	842.6	837.5	921.3	997.5	1167.7	1798.6	2412.6	7059.8	9208.2	9333.5	8254.7
77.5°	519.1	523.3	571.6	622.4	790.9	1343.9	1539.5	3927.5	6255.4	7418.0	6478.1
80°	376.0	376.0	411.5	442.0	523.3	818.9	766.4	1637.7	2286.4	3580.3	4040.1
82.5°	243.9	233.7	255.7	282.0	291.3	354.8	350.6	821.4	1165.2	1402.3	1682.6
85°	127.0	140.6	84.7	119.4	126.2	117.7	121.1	385.3	517.4	663.1	729.9
87.5°	19.5	15.2	20.3	27.9	32.2	27.1	23.7	44.9	69.4	92.3	109.2
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: P509828

CATALOG NUMBER: VERD-M-CA3-150-727-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3117.1	3117.1	3117.1	3117.1	3117.1	3117.1	3117.1	3117.1	3117.1	3117.1	3117.1
2.5°	3124.7	3120.5	3081.5	3024.8	2978.2	2939.3	2913.9	2896.9	2915.6	2881.7	2877.5
5°	3133.2	3104.4	3019.7	2938.4	2875.8	2791.9	2735.2	2697.1	2712.3	2682.7	2670.8
7.5°	3156.1	3103.6	2986.7	2857.1	2738.6	2648.8	2561.6	2477.8	2465.1	2446.4	2447.3
10°	3176.4	3101.0	2948.6	2779.2	2641.2	2482.8	2377.8	2291.5	2272.0	2250.0	2239.0
12.5°	3208.6	3106.9	2901.2	2696.2	2511.6	2328.7	2215.3	2113.6	2094.2	2051.0	2041.7
15°	3272.9	3128.1	2854.6	2593.8	2366.0	2181.4	2034.9	1946.0	1910.4	1862.1	1861.3
17.5°	3356.8	3189.9	2830.9	2497.2	2242.4	2035.7	1880.8	1791.0	1730.9	1702.1	1694.5
20°	3476.2	3270.4	2830.0	2410.0	2113.6	1879.9	1702.1	1600.5	1549.7	1525.9	1511.6
22.5°	3659.9	3388.9	2845.3	2349.0	1984.1	1729.2	1552.2	1412.5	1328.6	1263.4	1272.8
25°	3888.5	3566.8	2880.0	2293.2	1871.4	1585.2	1363.4	1169.4	1019.6	954.4	959.4
27.5°	4179.0	3779.3	2969.8	2236.4	1743.6	1430.3	1116.9	870.5	757.0	680.8	686.8
30°	4550.8	4043.5	3087.5	2192.4	1625.0	1213.5	840.9	641.9	542.0	479.3	473.4
32.5°	4995.3	4426.3	3216.2	2162.7	1495.5	942.5	606.3	470.8	373.4	337.9	343.0
35°	5545.8	4856.4	3412.6	2119.6	1273.6	670.7	432.7	318.4	268.4	261.7	262.5
37.5°	6047.9	5296.8	3607.4	2046.7	1005.2	476.8	293.8	242.2	231.2	228.6	232.0
40°	6539.9	5698.2	3783.5	1940.9	691.0	326.9	215.9	218.5	209.2	202.4	199.0
42.5°	7000.6	6085.2	3921.6	1746.1	472.5	215.9	191.4	199.0	197.3	183.8	177.8
45°	7497.6	6494.2	3997.8	1473.4	297.2	183.8	171.9	185.5	193.9	178.7	171.9
47.5°	7921.9	6893.0	3994.4	1128.8	201.5	173.6	161.7	173.6	183.8	172.7	166.8
50°	8411.4	7223.3	3886.0	716.4	178.7	160.9	155.0	159.2	172.7	165.1	159.2
52.5°	8955.0	7675.5	3721.7	399.7	169.4	152.4	144.0	149.0	160.9	151.6	155.0
55°	9405.5	8050.6	3335.6	272.7	165.1	142.3	137.2	140.6	145.7	136.3	141.4
57.5°	9807.7	8360.5	2945.2	223.6	159.2	135.5	134.6	127.9	127.0	121.1	116.0
60°	10215.1	8605.3	2418.5	202.4	153.3	136.3	121.9	112.6	105.0	99.1	96.5
62.5°	10527.5	8774.6	1912.9	182.9	144.8	127.9	111.8	96.5	83.8	76.2	76.2
65°	10619.0	8699.3	1346.4	166.0	135.5	120.2	99.9	78.8	63.5	58.4	55.9
67.5°	10326.0	8266.5	937.4	153.3	126.2	111.8	88.1	64.4	50.8	44.0	42.3
70°	9579.9	7542.5	553.0	135.5	114.3	97.4	80.4	52.5	41.5	34.7	33.0
72.5°	8477.4	6456.9	344.7	115.2	98.2	79.6	60.1	43.2	33.0	27.1	26.3
75°	7002.3	5033.4	225.3	88.9	77.9	62.7	45.7	34.7	28.8	22.9	21.2
77.5°	5615.2	3560.8	201.5	67.7	57.6	44.9	34.7	28.8	23.7	20.3	20.3
80°	3231.4	2032.3	165.1	46.6	35.6	33.9	27.1	23.7	22.0	19.5	18.6
82.5°	1587.8	976.4	106.7	28.8	20.3	22.0	22.9	21.2	18.6	16.9	16.9
85°	547.0	325.2	43.2	18.6	13.5	13.5	14.4	15.2	14.4	13.5	13.5
87.5°	84.7	61.8	11.9	11.0	8.5	7.6	8.5	9.3	9.3	8.5	8.5
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)