

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: P509869

Luminaire Tested: **VERD-M-CA3-160-722-U-T2**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509869  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA3-160-722-U-T2  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2200K, 1000mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19004 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

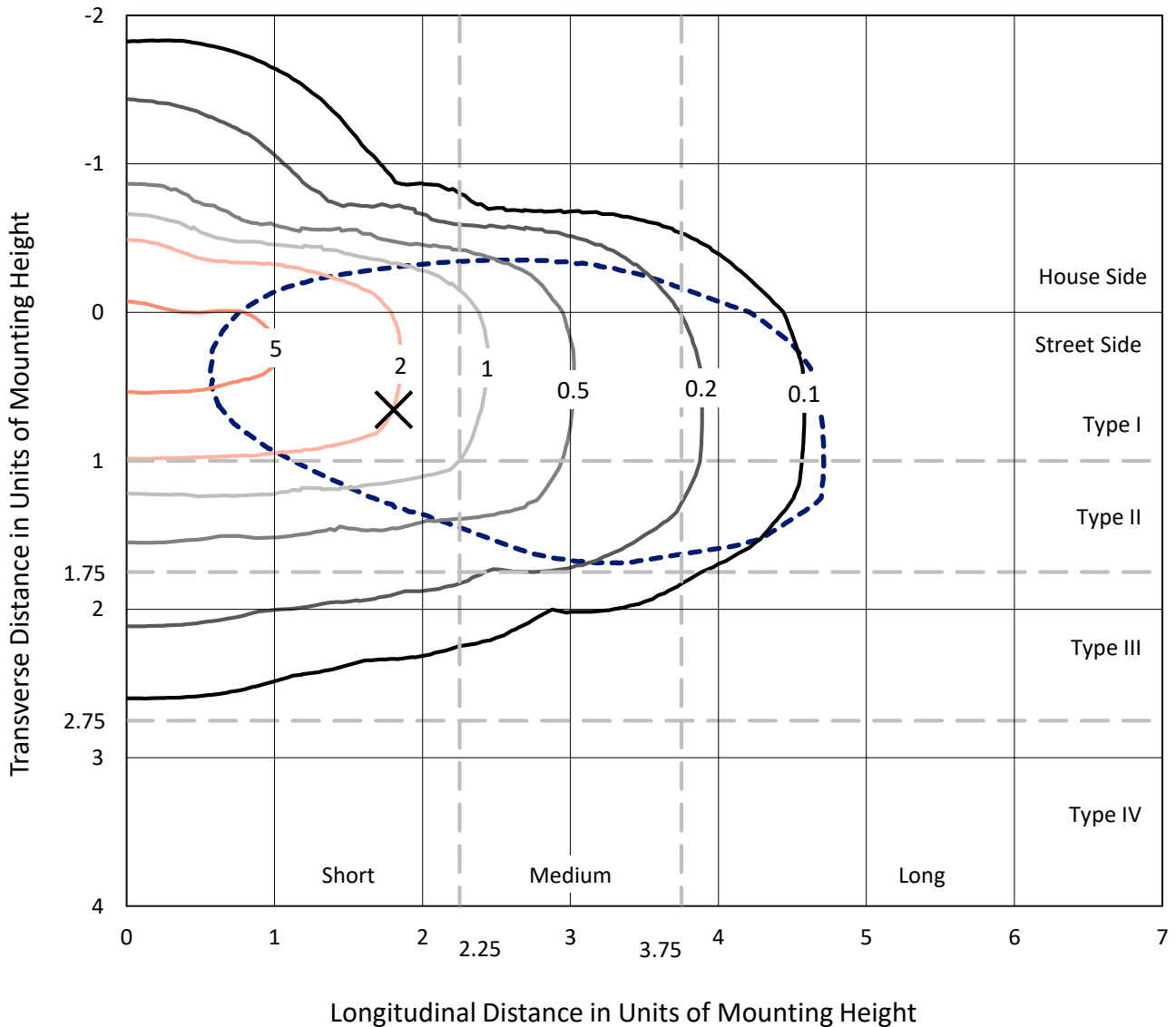
Input Watts (W): 162.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P509869  
 CATALOG NUMBER: VERD-M-CA3-160-722-U-T2

### Iso-Footcandle Lines of Horizontal Illumination

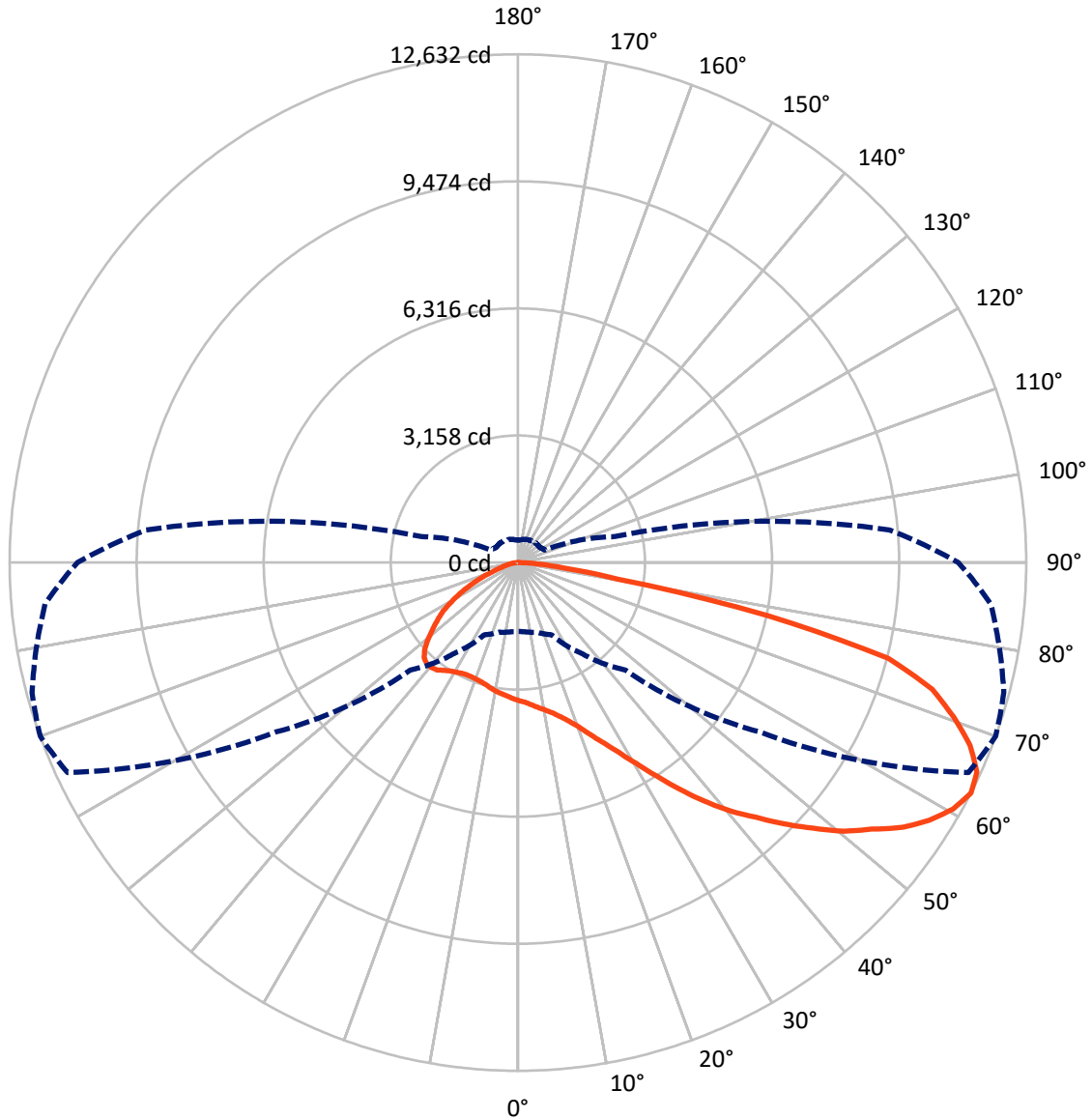
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P509869  
CATALOG NUMBER: VERD-M-CA3-160-722-U-T2

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P509869

CATALOG NUMBER: VERD-M-CA3-160-722-U-T2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4920.2	0.0	4920.2
	% Fixture	25.9	0.0	25.9
<b>Street Side</b>	Lumens	14083.8	0.0	14083.8
	% Fixture	74.1	0.0	74.1
<b>Total</b>	Lumens	19004.0	0.0	19004.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	329.4	1.7
10°-20°	1000.5	5.3
20°-30°	1698.0	8.9
30°-40°	2456.9	12.9
40°-50°	3224.0	17.0
50°-60°	3767.2	19.8
60°-70°	3780.5	19.9
70°-80°	2409.0	12.7
80°-90°	338.6	1.8
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°	19004.0	100.0
0°-180°	19004.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P509869

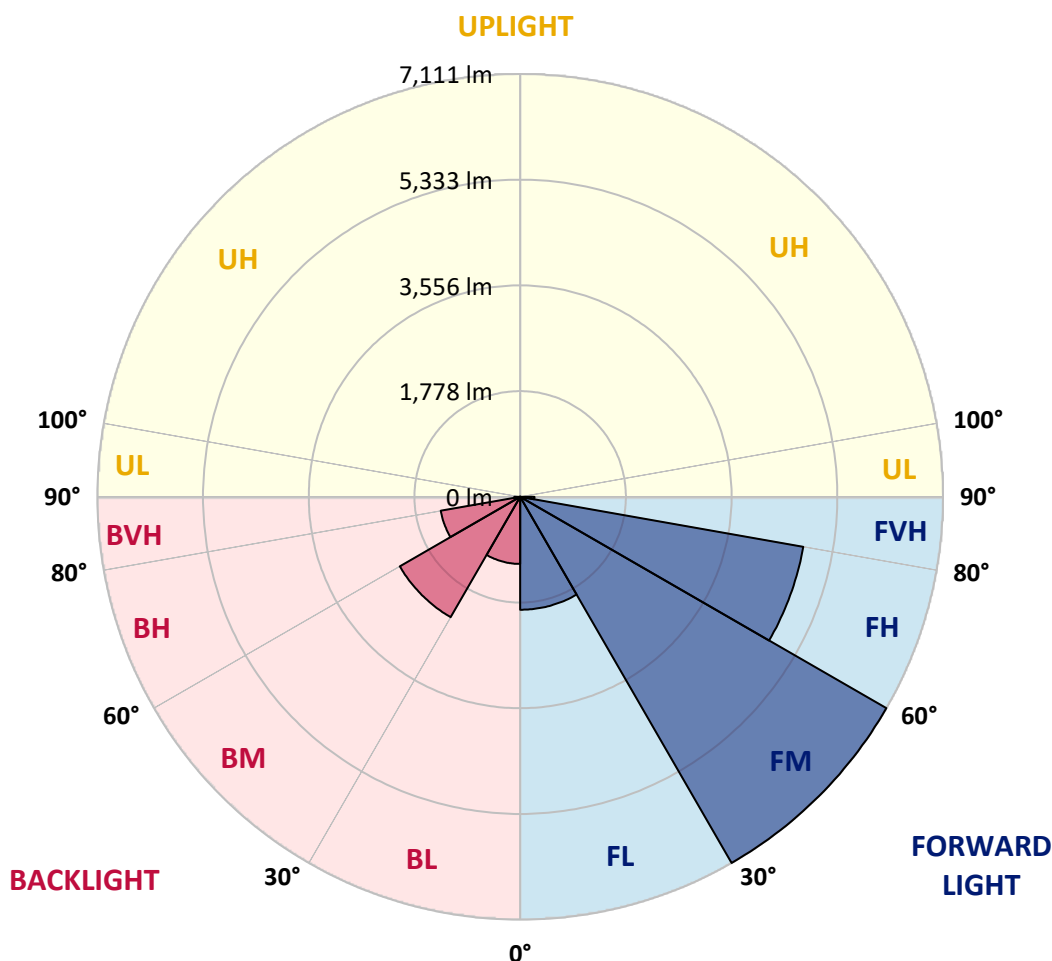
CATALOG NUMBER: VERD-M-CA3-160-722-U-T2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1899.5	10.0			
FM (30°-60°)	7111.1	37.4			
FH (60°-80°)	4834.4	25.4			G2/5000
FVH (80°-90°)	238.8	1.3			G3/500
BL (0°-30°)	1128.4	5.9	B3/2500		
BM (30°-60°)	2337.0	12.3	B2/2500		
BH (60°-80°)	1355.1	7.1	B3/2500		G3/2500
BVH (80°-90°)	99.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





REPORT NUMBER: P509869

CATALOG NUMBER: VERD-M-CA3-160-722-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3430.0	3430.0	3430.0	3430.0	3430.0	3430.0	3430.0	3430.0	3430.0	3430.0	3430.0
2.5°	3561.4	3599.1	3594.0	3570.8	3587.1	3542.5	3526.1	3501.2	3475.5	3466.9	3452.3
5°	3729.7	3779.5	3770.0	3739.1	3738.3	3674.7	3638.6	3591.4	3551.9	3521.0	3475.5
7.5°	3886.8	3944.4	3935.8	3905.7	3904.0	3831.0	3756.3	3682.4	3636.9	3597.4	3514.1
10°	4053.4	4097.2	4089.5	4050.9	4043.1	3971.8	3884.3	3791.5	3724.5	3669.6	3551.0
12.5°	4207.2	4253.5	4257.0	4208.9	4196.8	4120.4	4044.0	3921.2	3834.4	3771.8	3597.4
15°	4350.6	4405.5	4395.2	4347.1	4334.3	4257.0	4182.2	4068.9	3978.7	3891.1	3673.0
17.5°	4465.6	4518.0	4505.1	4483.7	4476.8	4416.7	4354.9	4232.1	4152.2	4039.7	3789.8
20°	4544.7	4593.6	4598.8	4592.7	4632.2	4575.6	4541.2	4454.5	4366.9	4265.6	3949.5
22.5°	4575.6	4634.0	4683.8	4722.4	4804.0	4795.4	4789.4	4739.6	4653.7	4506.0	4160.8
25°	4585.0	4643.4	4720.7	4816.0	4962.0	5014.4	5052.2	5064.2	4970.6	4853.8	4423.6
27.5°	4586.7	4649.4	4728.4	4882.2	5104.6	5262.6	5352.8	5394.8	5342.5	5249.7	4780.8
30°	4550.7	4615.1	4716.4	4921.7	5216.2	5475.6	5625.0	5811.4	5789.0	5710.9	5228.2
32.5°	4446.8	4505.1	4645.1	4914.8	5327.0	5693.7	5926.4	6249.3	6324.9	6274.2	5744.4
35°	4260.4	4331.7	4512.9	4858.1	5387.1	5905.8	6281.1	6783.5	6920.0	6923.5	6377.3
37.5°	4072.3	4126.4	4339.4	4751.6	5420.6	6093.9	6617.7	7318.5	7516.9	7521.2	6903.7
40°	3872.2	3922.0	4156.5	4609.1	5386.3	6241.6	6931.2	7832.9	8117.2	8090.5	7420.7
42.5°	3612.9	3667.8	3900.6	4415.0	5300.4	6355.8	7249.8	8373.1	8646.2	8676.2	7960.0
45°	3391.3	3435.1	3638.6	4111.8	5143.2	6417.6	7548.7	8949.3	9261.9	9230.1	8535.4
47.5°	3118.2	3183.5	3400.8	3865.4	4860.7	6402.2	7834.6	9519.6	9867.4	9838.2	9034.3
50°	2405.4	2481.0	2986.0	3606.9	4500.0	6281.1	8094.0	10064.9	10496.8	10420.4	9562.5
52.5°	2184.7	2206.2	2407.2	3309.7	4144.5	6006.3	8284.6	10753.6	11009.5	10979.5	10097.5
55°	2049.9	2091.1	2183.0	2726.6	3825.0	5559.7	8416.9	11329.0	11617.5	11476.7	10581.9
57.5°	1931.4	1960.6	2069.7	2334.2	3457.4	4944.8	8378.2	11814.2	12071.8	11875.2	11055.1
60°	1805.2	1824.0	1933.1	2130.6	3060.7	4265.6	7985.8	12314.9	12429.1	12248.8	11455.2
62.5°	1707.3	1725.3	1790.6	1980.3	2751.5	3779.5	7343.4	12350.1	12631.8	12500.4	11795.3
65°	1581.9	1593.9	1675.5	1824.9	2464.7	3490.1	6777.5	12019.5	12533.9	12501.2	11925.9
67.5°	1443.6	1458.2	1535.5	1641.1	2098.0	3149.1	5831.1	11840.8	12119.9	12151.7	11681.1
70°	1281.3	1291.6	1371.5	1447.9	1794.8	2764.4	4635.7	11156.4	11481.9	11481.0	10925.4
72.5°	1106.1	1105.2	1184.3	1265.0	1503.7	2322.1	3629.2	9905.1	10766.5	10702.1	9850.2
75°	912.0	924.9	1001.3	1064.9	1251.2	1882.4	2527.4	7175.1	9505.0	9593.4	8501.0
77.5°	583.1	591.7	634.6	699.9	875.1	1438.5	1648.9	3987.3	6346.4	7655.1	6691.6
80°	426.0	430.2	468.0	505.8	582.3	876.0	838.2	1733.0	2515.4	3758.0	4105.0
82.5°	290.3	291.1	321.2	329.8	334.1	395.0	397.6	843.3	1198.0	1411.0	1812.9
85°	192.4	159.7	124.5	164.9	169.2	145.1	141.7	380.4	594.3	712.8	671.6
87.5°	42.9	42.1	49.0	49.8	48.1	41.2	34.4	58.4	89.3	88.5	113.4
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: P509869  
 CATALOG NUMBER: VERD-M-CA3-160-722-U-T2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3430.0	3430.0	3430.0	3430.0	3430.0	3430.0	3430.0	3430.0	3430.0	3430.0	3430.0
2.5°	3438.5	3434.3	3410.2	3359.5	3325.2	3290.0	3270.2	3258.2	3262.5	3242.7	3234.2
5°	3447.1	3425.7	3357.8	3297.7	3243.6	3182.6	3132.0	3125.1	3135.4	3117.4	3107.1
7.5°	3469.5	3423.9	3337.2	3234.2	3144.0	3086.4	3013.5	2976.5	2973.9	2955.9	2959.3
10°	3482.3	3423.1	3307.2	3182.6	3077.0	2974.8	2896.7	2855.4	2852.9	2827.1	2821.1
12.5°	3517.6	3432.5	3271.9	3119.9	3002.3	2865.7	2783.3	2745.5	2741.2	2705.2	2691.4
15°	3571.7	3454.0	3235.0	3046.9	2894.9	2767.0	2668.2	2617.6	2609.8	2567.7	2553.1
17.5°	3657.5	3515.0	3223.9	2980.8	2801.3	2661.4	2545.4	2490.5	2445.8	2422.6	2402.9
20°	3773.5	3590.6	3236.7	2919.0	2683.7	2522.2	2378.0	2305.8	2274.9	2237.1	2239.7
22.5°	3938.4	3709.1	3259.1	2870.9	2577.2	2373.7	2211.4	2130.6	2074.8	2043.0	2044.8
25°	4170.2	3887.7	3302.9	2825.4	2461.3	2211.4	2019.8	1907.3	1850.7	1830.1	1808.6
27.5°	4463.1	4101.5	3406.8	2769.6	2323.9	2027.6	1815.5	1684.1	1626.5	1595.6	1591.3
30°	4839.2	4382.3	3528.7	2728.3	2179.6	1798.3	1562.1	1458.2	1407.5	1363.7	1343.1
32.5°	5297.8	4779.1	3664.4	2687.1	2001.0	1541.5	1327.7	1247.8	1167.1	1111.3	1113.8
35°	5830.2	5211.1	3866.2	2634.7	1791.4	1301.9	1154.2	1051.1	975.6	938.6	921.5
37.5°	6332.6	5654.2	4103.2	2581.5	1557.0	1146.5	983.3	888.0	829.6	801.2	807.3
40°	6841.0	6111.1	4307.6	2451.0	1294.2	1005.6	814.1	760.0	736.8	714.5	717.1
42.5°	7296.2	6475.2	4457.1	2305.8	1110.4	844.2	693.9	705.9	719.7	706.8	703.3
45°	7770.2	6901.1	4588.5	2058.5	956.7	717.1	663.8	697.3	727.4	725.7	721.4
47.5°	8246.0	7296.2	4601.3	1730.4	816.7	674.1	663.0	687.9	727.4	734.3	729.1
50°	8736.3	7710.1	4525.8	1344.0	757.4	679.3	663.8	668.1	711.9	719.7	717.1
52.5°	9280.0	8157.5	4339.4	1021.9	734.3	687.9	666.4	660.4	685.3	699.0	701.6
55°	9779.8	8513.1	3989.9	902.6	717.1	688.7	685.3	665.6	666.4	659.5	676.7
57.5°	10199.7	8852.3	3593.1	837.3	701.6	681.0	693.9	657.0	646.7	618.3	611.4
60°	10634.2	9128.0	3034.9	792.7	683.6	671.6	672.4	642.4	616.6	575.4	563.4
62.5°	10942.6	9273.9	2493.0	740.3	658.7	657.0	644.1	621.8	598.6	562.5	557.3
65°	11031.9	9196.7	1915.1	685.3	626.0	632.9	609.7	578.8	482.6	438.0	438.0
67.5°	10736.4	8720.9	1417.8	621.8	586.5	600.3	554.8	456.0	406.2	379.6	383.9
70°	9926.6	7952.3	923.2	529.0	529.9	541.0	457.7	410.5	363.3	346.9	355.5
72.5°	8844.6	6812.7	608.9	421.7	446.6	427.7	418.2	377.9	335.8	316.9	322.9
75°	7288.4	5379.4	422.5	331.5	289.4	365.0	371.9	317.7	285.1	346.1	359.8
77.5°	5758.1	3739.1	348.7	231.9	213.8	269.7	298.0	294.6	471.5	553.9	547.9
80°	3423.9	2153.0	284.3	160.6	151.1	173.5	234.4	338.4	528.1	396.8	377.9
82.5°	1552.7	979.0	151.1	84.2	98.8	115.1	175.2	420.8	346.1	254.2	239.6
85°	606.3	319.5	60.1	36.9	34.4	42.9	79.9	202.7	139.1	112.5	112.5
87.5°	78.1	57.5	17.2	12.9	11.2	13.7	25.8	112.5	65.3	55.0	53.2
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)