

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: P510325

Luminaire Tested: **VERD-M-CA4-250-740-U-T2**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510325  
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-CA4-250-740-U-T2  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 4000K, 1130mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34563 lumens  
Efficiency: N/A  
Efficacy: 137.3 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

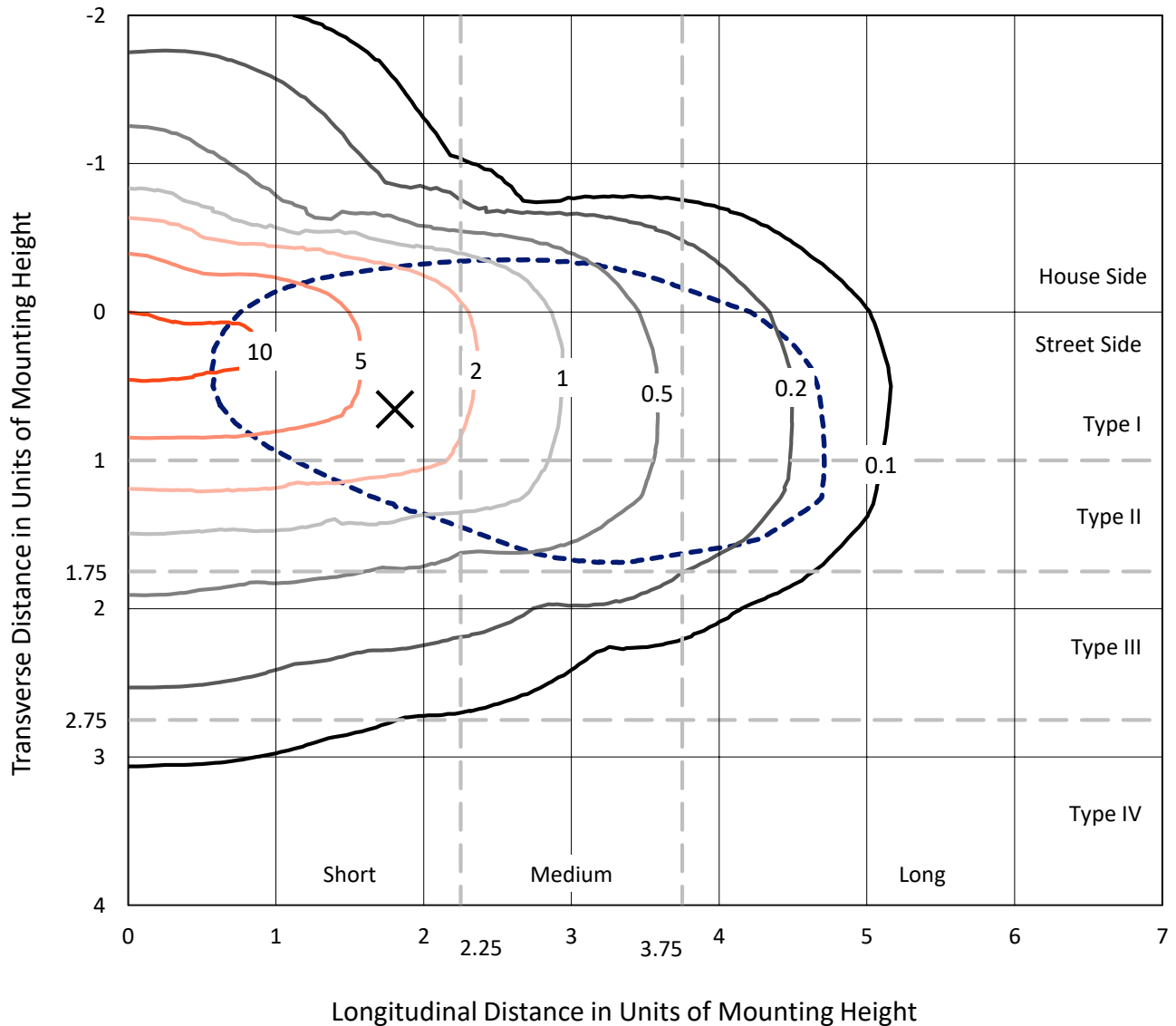
Input Watts (W): 251.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

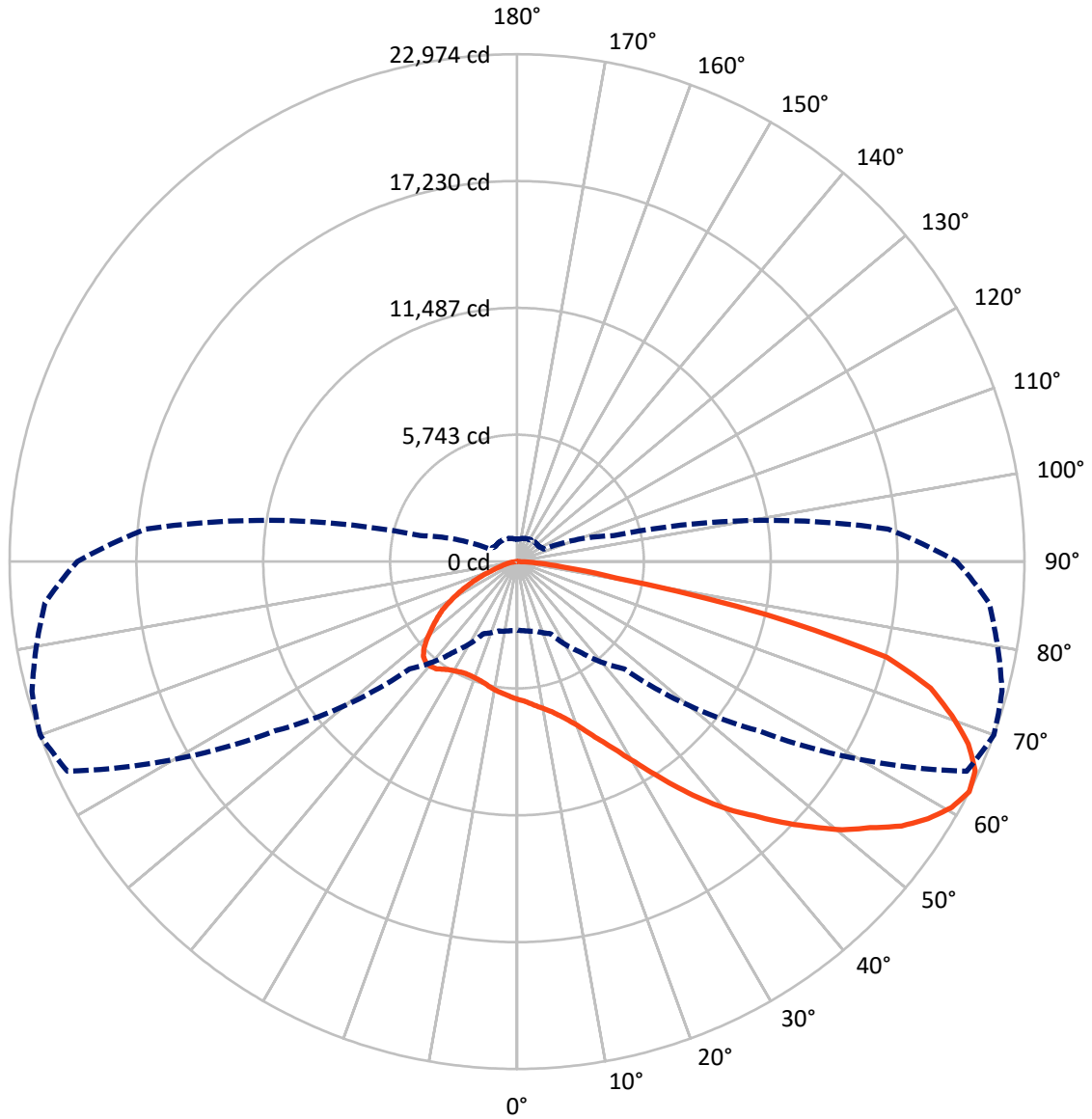
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8948.5	0.0	8948.5
	% Fixture	25.9	0.0	25.9
<b>Street Side</b>	Lumens	25614.5	0.0	25614.5
	% Fixture	74.1	0.0	74.1
<b>Total</b>	Lumens	34563.0	0.0	34563.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	599.2	1.7
10°-20°	1819.6	5.3
20°-30°	3088.1	8.9
30°-40°	4468.4	12.9
40°-50°	5863.6	17.0
50°-60°	6851.4	19.8
60°-70°	6875.7	19.9
70°-80°	4381.3	12.7
80°-90°	615.7	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°	34563.0	100.0
0°-180°	34563.0	100.0

**Coefficient of Utilization**



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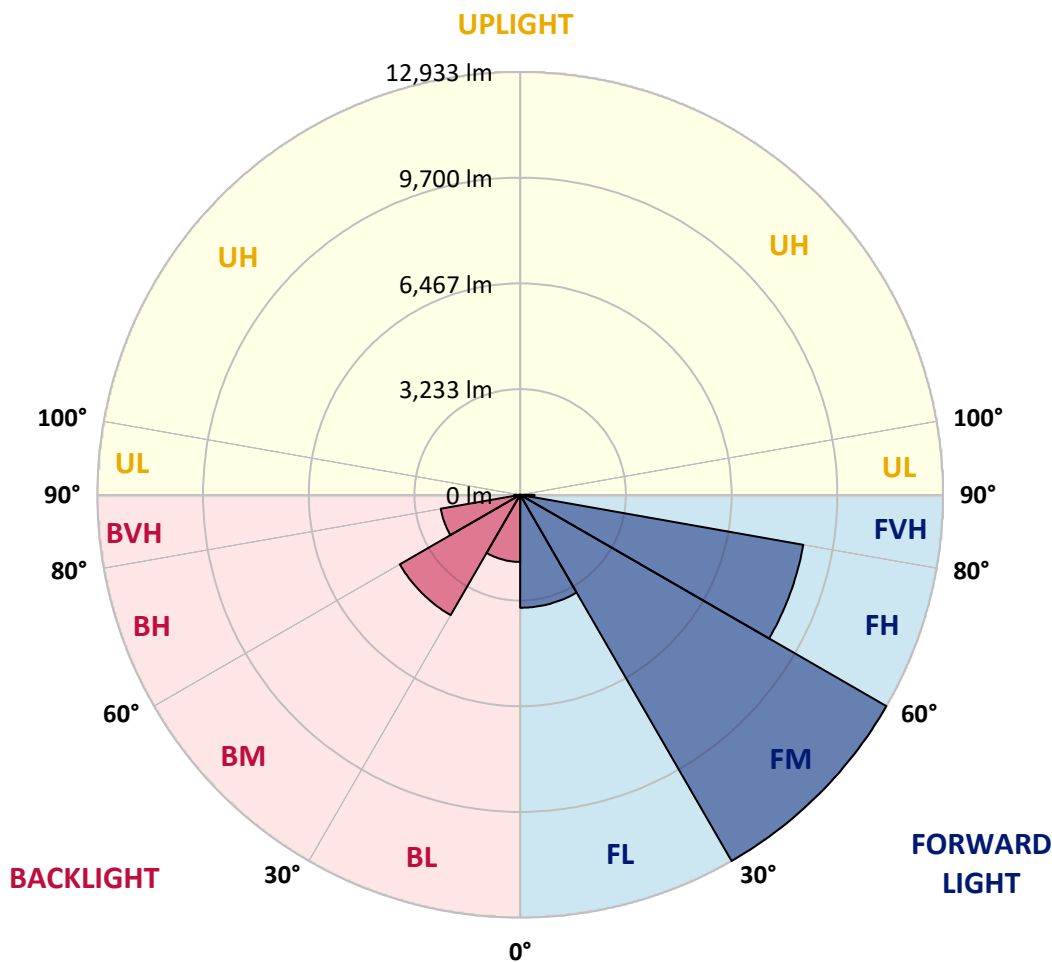
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3454.6	10.0			
FM (30°-60°)	12933.1	37.4			
FH (60°-80°)	8792.5	25.4			G4/12000
FVH (80°-90°)	434.3	1.3			G3/500
BL (0°-30°)	2052.3	5.9	B3/2500		
BM (30°-60°)	4250.3	12.3	B3/5000		
BH (60°-80°)	2464.5	7.1	B3/2500		G3/2500
BVH (80°-90°)	181.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	6238.1	6238.1	6238.1	6238.1	6238.1	6238.1	6238.1	6238.1	6238.1	6238.1	6238.1
2.5°	6477.1	6545.8	6536.5	6494.3	6524.0	6442.8	6413.1	6367.8	6320.9	6305.3	6278.8
5°	6783.2	6873.8	6856.6	6800.4	6798.9	6683.3	6617.7	6531.8	6459.9	6403.7	6320.9
7.5°	7069.1	7173.7	7158.1	7103.4	7100.3	6967.5	6831.7	6697.3	6614.6	6542.7	6391.2
10°	7372.1	7451.7	7437.7	7367.4	7353.3	7223.7	7064.4	6895.7	6773.9	6673.9	6458.4
12.5°	7651.6	7736.0	7742.2	7654.8	7632.9	7493.9	7354.9	7131.5	6973.8	6859.8	6542.7
15°	7912.5	8012.4	7993.7	7906.2	7882.8	7742.2	7606.4	7400.2	7236.2	7076.9	6680.2
17.5°	8121.8	8217.0	8193.6	8154.6	8142.1	8032.7	7920.3	7696.9	7551.7	7347.1	6892.6
20°	8265.5	8354.5	8363.9	8352.9	8424.8	8321.7	8259.2	8101.5	7942.2	7757.9	7183.1
22.5°	8321.7	8427.9	8518.5	8588.8	8737.2	8721.5	8710.6	8620.0	8463.8	8195.2	7567.3
25°	8338.9	8445.1	8585.6	8759.0	9024.5	9119.8	9188.5	9210.4	9040.2	8827.7	8045.2
27.5°	8342.0	8456.0	8599.7	8879.3	9283.8	9571.2	9735.2	9811.7	9716.4	9547.8	8695.0
30°	8276.4	8393.5	8577.8	8951.1	9486.9	9958.5	10230.3	10569.2	10528.6	10386.5	9508.7
32.5°	8087.4	8193.6	8448.2	8938.6	9688.3	10355.3	10778.5	11365.8	11503.2	11411.1	10447.4
35°	7748.5	7878.1	8207.7	8835.5	9797.7	10741.0	11423.6	12337.3	12585.6	12591.9	11598.5
37.5°	7406.4	7504.8	7892.2	8641.9	9858.6	11083.1	12035.8	13310.3	13671.1	13678.9	12555.9
40°	7042.5	7133.1	7559.5	8382.6	9796.1	11351.7	12605.9	14245.9	14762.9	14714.5	13496.2
42.5°	6570.8	6670.8	7094.1	8029.6	9639.9	11559.5	13185.4	15228.3	15725.0	15779.7	14477.1
45°	6167.9	6247.5	6617.7	7478.3	9354.1	11671.9	13728.9	16276.3	16844.9	16787.1	15523.5
47.5°	5671.2	5789.9	6185.0	7030.0	8840.2	11643.8	14249.0	17313.4	17946.0	17892.9	16431.0
50°	4374.8	4512.3	5430.7	6559.9	8184.2	11423.6	14720.7	18305.2	19090.8	18951.8	17391.5
52.5°	3973.4	4012.5	4377.9	6019.5	7537.6	10923.8	15067.4	19557.8	20023.3	19968.6	18364.6
55°	3728.2	3803.2	3970.3	4959.0	6956.6	10111.6	15308.0	20604.3	21129.1	20872.9	19245.5
57.5°	3512.7	3565.8	3764.1	4245.2	6288.1	8993.3	15237.7	21486.8	21955.3	21597.7	20106.1
60°	3283.1	3317.4	3515.8	3875.0	5566.5	7757.9	14523.9	22397.3	22605.1	22277.1	20833.9
62.5°	3105.0	3137.8	3256.5	3601.7	5004.3	6873.8	13355.6	22461.4	22973.7	22734.7	21452.4
65°	2877.0	2898.8	3047.2	3319.0	4482.6	6347.5	12326.3	21860.1	22795.6	22736.3	21689.8
67.5°	2625.5	2652.1	2792.6	2984.8	3815.7	5727.4	10605.2	21535.2	22042.8	22100.6	21244.7
70°	2330.3	2349.1	2494.3	2633.3	3264.3	5027.7	8431.0	20290.4	20882.3	20880.8	19870.2
72.5°	2011.7	2010.1	2153.8	2300.6	2734.8	4223.3	6600.5	18014.7	19581.3	19464.1	17914.8
75°	1658.7	1682.1	1821.2	1936.7	2275.7	3423.6	4596.6	13049.5	17286.9	17447.7	15461.0
77.5°	1060.5	1076.1	1154.2	1272.9	1591.6	2616.1	2998.8	7251.8	11542.3	13922.6	12170.2
80°	774.7	782.5	851.2	919.9	1059.0	1593.1	1524.4	3151.9	4574.7	6834.8	7465.8
82.5°	527.9	529.5	584.1	599.8	607.6	718.5	723.1	1533.8	2178.8	2566.2	3297.1
85°	349.9	290.5	226.5	299.9	307.7	264.0	257.7	691.9	1080.8	1296.4	1221.4
87.5°	78.1	76.5	89.0	90.6	87.5	75.0	62.5	106.2	162.4	160.9	206.2
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°	6238.1	6238.1	6238.1	6238.1	6238.1	6238.1	6238.1	6238.1	6238.1	6238.1	6238.1
2.5°	6253.8	6246.0	6202.2	6110.1	6047.6	5983.6	5947.6	5925.8	5933.6	5897.7	5882.0
5°	6269.4	6230.3	6106.9	5997.6	5899.2	5788.3	5696.2	5683.7	5702.4	5669.6	5650.9
7.5°	6310.0	6227.2	6069.5	5882.0	5718.0	5613.4	5480.6	5413.5	5408.8	5376.0	5382.2
10°	6333.4	6225.6	6014.8	5788.3	5596.2	5410.3	5268.2	5193.2	5188.6	5141.7	5130.8
12.5°	6397.5	6242.8	5950.8	5674.3	5460.3	5212.0	5062.0	4993.3	4985.5	4919.9	4894.9
15°	6495.9	6281.9	5883.6	5541.5	5265.1	5032.4	4852.8	4760.6	4746.5	4670.0	4643.5
17.5°	6652.0	6392.8	5863.3	5421.3	5094.8	4840.3	4629.4	4529.4	4448.2	4406.1	4370.1
20°	6862.9	6530.2	5886.7	5308.8	4880.9	4587.2	4324.8	4193.6	4137.4	4068.7	4073.4
22.5°	7162.8	6745.8	5927.3	5221.4	4687.2	4317.0	4021.8	3875.0	3773.5	3715.7	3718.8
25°	7584.5	7070.6	6007.0	5138.6	4476.3	4021.8	3673.5	3468.9	3365.8	3328.4	3289.3
27.5°	8117.1	7459.5	6196.0	5037.1	4226.4	3687.6	3301.8	3062.8	2958.2	2902.0	2894.2
30°	8801.2	7970.3	6417.8	4962.1	3964.0	3270.6	2841.1	2652.1	2559.9	2480.3	2442.8
32.5°	9635.2	8691.9	6664.5	4887.1	3639.2	2803.6	2414.7	2269.4	2122.6	2021.1	2025.8
35°	10603.6	9477.5	7031.6	4791.8	3258.1	2367.8	2099.2	1911.7	1774.3	1707.1	1675.9
37.5°	11517.3	10283.4	7462.7	4695.0	2831.7	2085.1	1788.4	1615.0	1508.8	1457.2	1468.2
40°	12441.9	11114.3	7834.4	4457.6	2353.8	1829.0	1480.7	1382.3	1340.1	1299.5	1304.2
42.5°	13269.7	11776.6	8106.2	4193.6	2019.5	1535.3	1262.0	1283.9	1308.9	1285.4	1279.2
45°	14131.9	12551.3	8345.1	3743.8	1739.9	1304.2	1207.3	1268.2	1322.9	1319.8	1312.0
47.5°	14997.2	13269.7	8368.5	3147.2	1485.3	1226.1	1205.8	1251.1	1322.9	1335.4	1326.0
50°	15889.0	14022.5	8231.1	2444.3	1377.6	1235.4	1207.3	1215.1	1294.8	1308.9	1304.2
52.5°	16877.7	14836.3	7892.2	1858.6	1335.4	1251.1	1212.0	1201.1	1246.4	1271.4	1276.1
55°	17786.7	15482.9	7256.5	1641.5	1304.2	1252.6	1246.4	1210.5	1212.0	1199.5	1230.8
57.5°	18550.4	16099.8	6534.9	1522.8	1276.1	1238.6	1262.0	1194.8	1176.1	1124.6	1112.1
60°	19340.7	16601.2	5519.7	1441.6	1243.3	1221.4	1223.0	1168.3	1121.4	1046.5	1024.6
62.5°	19901.5	16866.7	4534.1	1346.3	1198.0	1194.8	1171.4	1130.8	1088.6	1023.0	1013.7
65°	20063.9	16726.2	3483.0	1246.4	1138.6	1151.1	1108.9	1052.7	877.8	796.6	796.6
67.5°	19526.6	15860.9	2578.7	1130.8	1066.8	1091.8	1009.0	829.4	738.8	690.4	698.2
70°	18053.8	14463.0	1679.0	962.1	963.7	984.0	832.5	746.6	660.7	631.0	646.6
72.5°	16085.8	12390.4	1107.4	766.9	812.2	777.8	760.6	687.2	610.7	576.3	587.3
75°	13255.7	9783.6	768.4	602.9	526.4	663.8	676.3	577.9	518.5	629.4	654.4
77.5°	10472.4	6800.4	634.1	421.7	388.9	490.4	542.0	535.7	857.5	1007.4	996.5
80°	6227.2	3915.6	517.0	292.1	274.9	315.5	426.4	615.4	960.6	721.6	687.2
82.5°	2823.9	1780.5	274.9	153.1	179.6	209.3	318.6	765.3	629.4	462.3	435.8
85°	1102.7	581.0	109.3	67.2	62.5	78.1	145.3	368.6	253.0	204.6	204.6
87.5°	142.1	104.6	31.2	23.4	20.3	25.0	46.9	204.6	118.7	100.0	96.8
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)