

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: P510125

Luminaire Tested: **VERD-M-CA4-210-730-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510125
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-CA4-210-730-U-T2
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 3000K, 960mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29565 lumens
Efficiency: N/A
Efficacy: 138.4 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

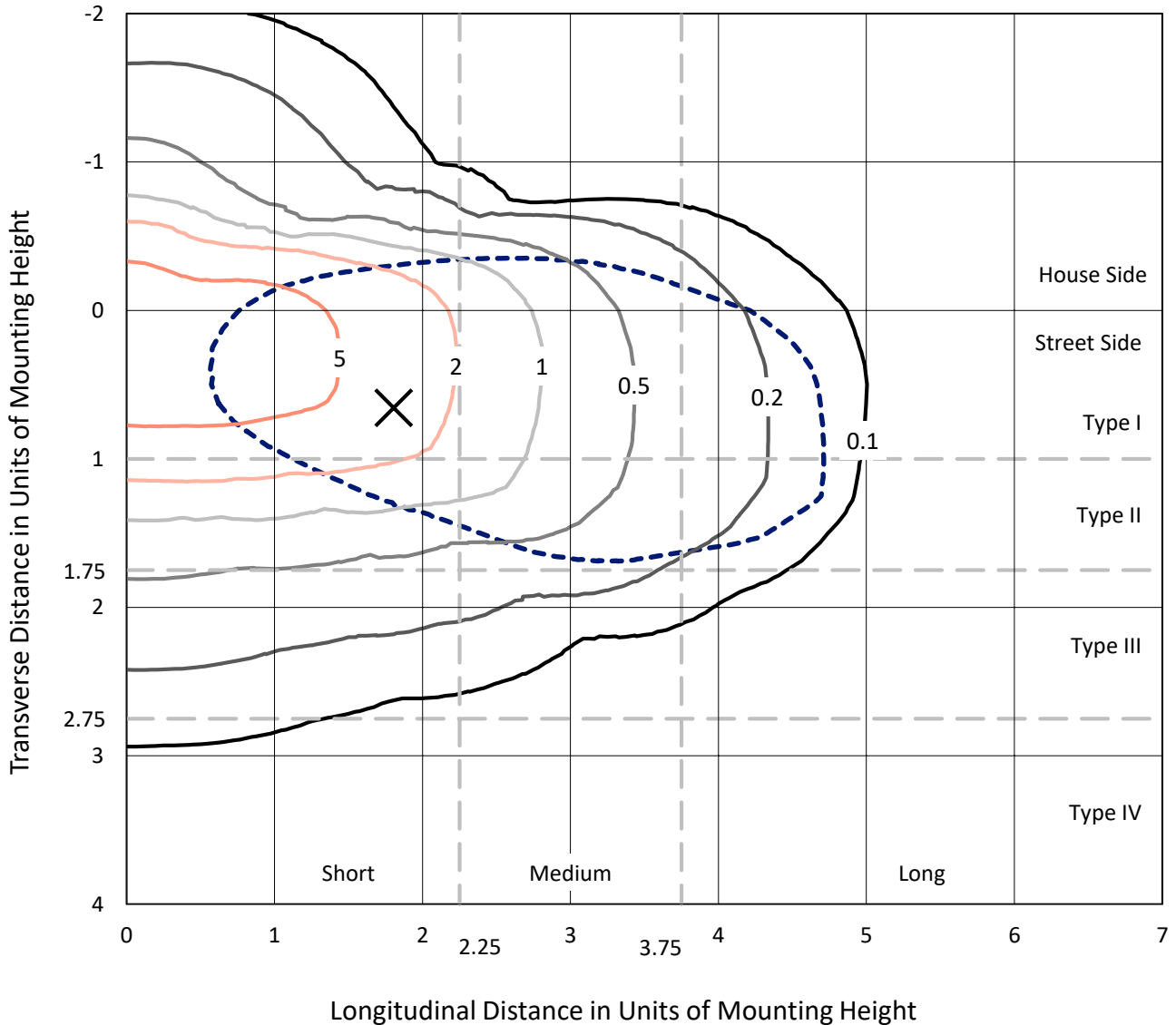
Input Watts (W): 213.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

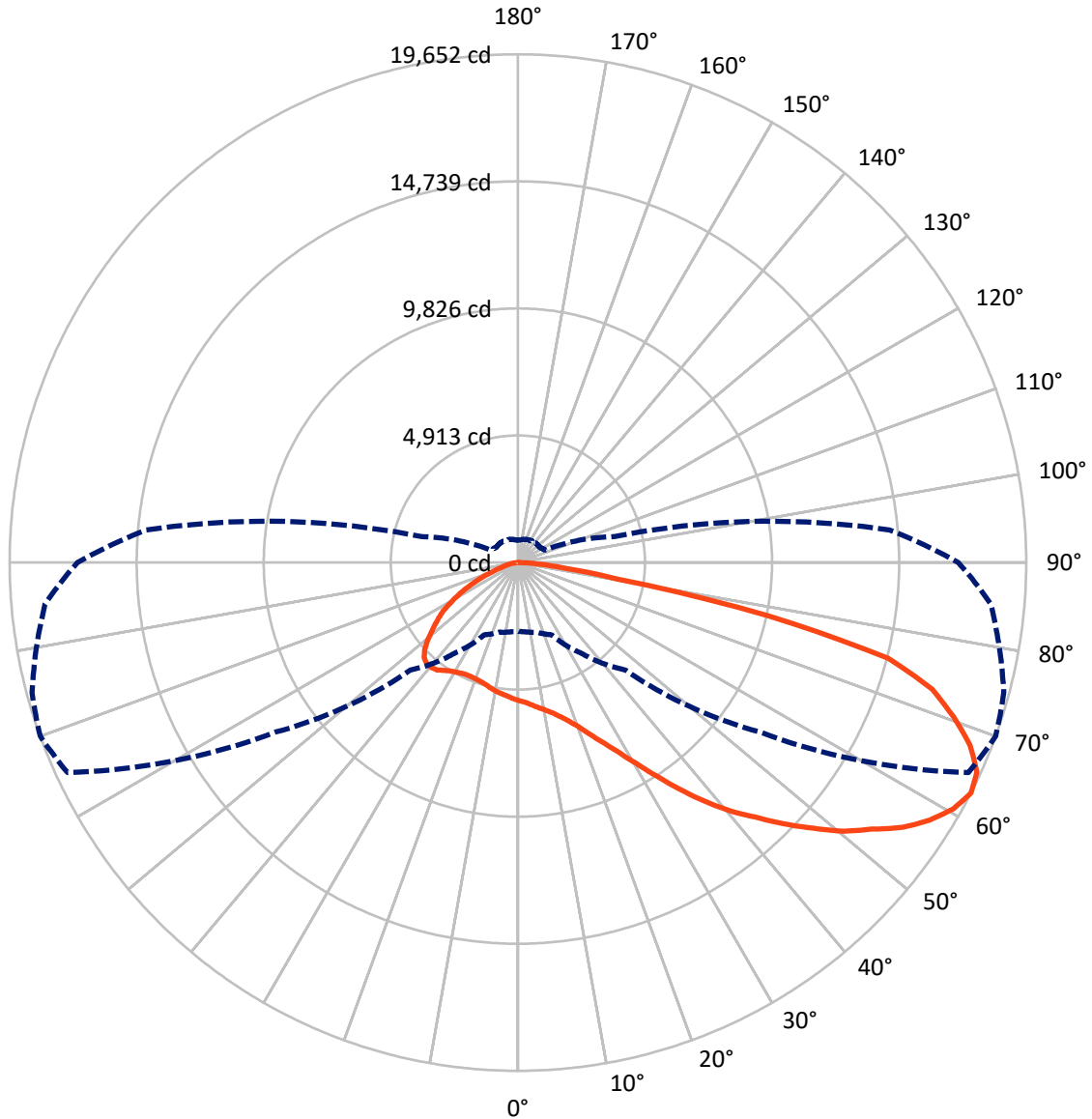
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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
House Side	Lumens	7654.5	0.0	7654.5
	% Fixture	25.9	0.0	25.9
Street Side	Lumens	21910.5	0.0	21910.5
	% Fixture	74.1	0.0	74.1
Total	Lumens	29565.0	0.0	29565.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.5	1.7
10°-20°	1556.5	5.3
20°-30°	2641.6	8.9
30°-40°	3822.2	12.9
40°-50°	5015.7	17.0
50°-60°	5860.7	19.8
60°-70°	5881.4	19.9
70°-80°	3747.7	12.7
80°-90°	526.7	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°	29565.0	100.0
0°-180°	29565.0	100.0



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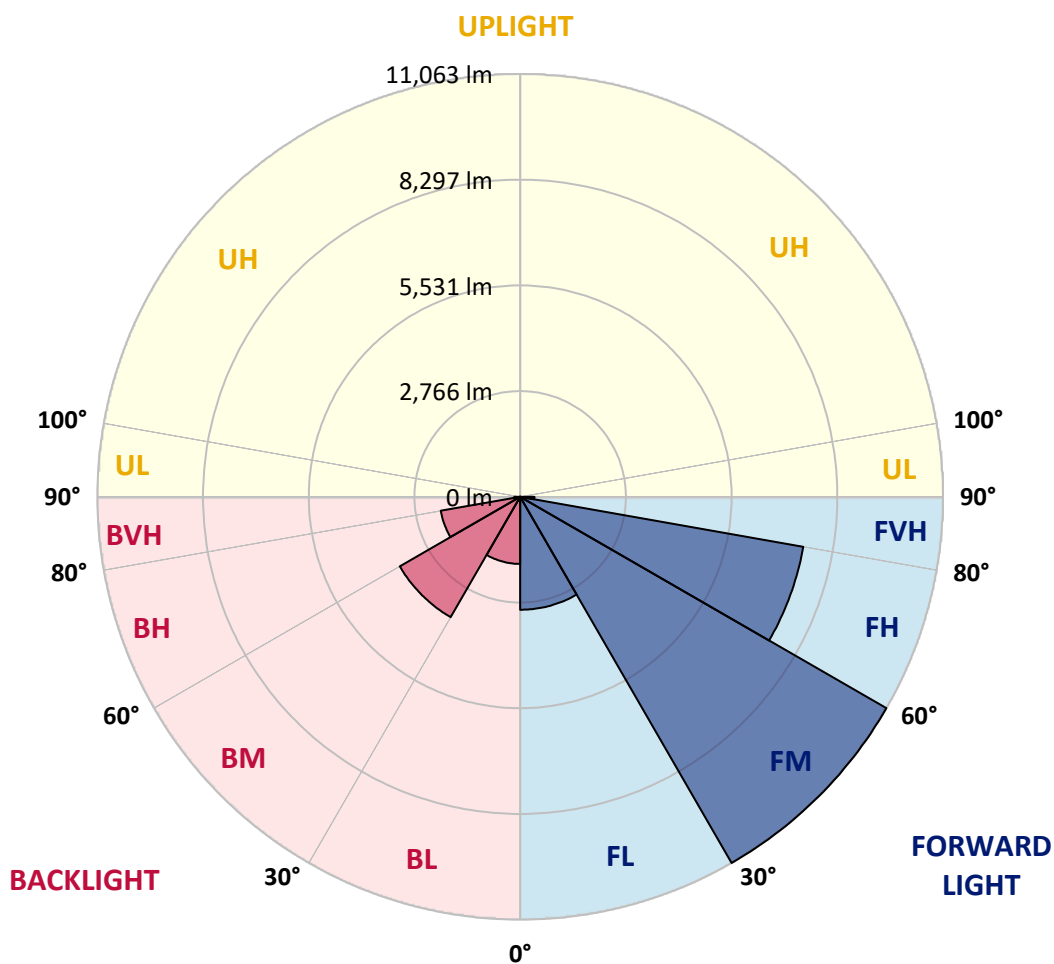
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2955.0	10.0			
FM	(30°-60°)	11062.9	37.4			
FH	(60°-80°)	7521.0	25.4			G4/12000
FVH	(80°-90°)	371.5	1.3			G3/500
BL	(0°-30°)	1755.5	5.9	B3/2500		
BM	(30°-60°)	3635.7	12.3	B3/5000		
BH	(60°-80°)	2108.1	7.1	B3/2500		G3/2500
BVH	(80°-90°)	155.2	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°	5336.1	5336.1	5336.1	5336.1	5336.1	5336.1	5336.1	5336.1	5336.1	5336.1	5336.1
2.5°	5540.5	5599.3	5591.3	5555.2	5580.6	5511.1	5485.7	5447.0	5406.9	5393.5	5370.8
5°	5802.3	5879.8	5865.1	5817.0	5815.7	5716.8	5660.7	5587.2	5525.8	5477.7	5406.9
7.5°	6046.8	6136.4	6123.0	6076.2	6073.6	5960.0	5843.8	5728.9	5658.1	5596.6	5467.0
10°	6306.0	6374.2	6362.1	6302.0	6290.0	6179.1	6042.8	5898.5	5794.3	5708.8	5524.5
12.5°	6545.2	6617.3	6622.7	6547.8	6529.1	6410.2	6291.3	6100.3	5965.3	5867.8	5596.6
15°	6768.3	6853.8	6837.8	6762.9	6742.9	6622.7	6506.4	6330.1	6189.8	6053.5	5714.2
17.5°	6947.3	7028.8	7008.8	6975.4	6964.7	6871.2	6775.0	6583.9	6459.7	6284.7	5895.9
20°	7070.2	7146.4	7154.4	7145.0	7206.5	7118.3	7064.9	6929.9	6793.7	6636.0	6144.4
22.5°	7118.3	7209.2	7286.7	7346.8	7473.7	7460.4	7451.0	7373.5	7239.9	7010.1	6473.0
25°	7133.0	7223.9	7344.1	7492.4	7719.5	7801.0	7859.8	7878.5	7732.9	7551.2	6881.9
27.5°	7135.7	7233.2	7356.1	7595.3	7941.3	8187.1	8327.4	8392.9	8311.4	8167.1	7437.6
30°	7079.6	7179.8	7337.4	7656.7	8115.0	8518.5	8750.9	9040.9	9006.1	8884.6	8133.7
32.5°	6917.9	7008.8	7226.5	7646.1	8287.3	8857.8	9219.9	9722.2	9839.8	9761.0	8936.7
35°	6628.0	6738.9	7020.8	7557.9	8380.9	9187.8	9771.7	10553.2	10765.7	10771.0	9921.3
37.5°	6335.4	6419.6	6750.9	7392.2	8433.0	9480.4	10295.4	11385.6	11694.2	11700.9	10740.3
40°	6024.1	6101.6	6466.3	7170.4	8379.5	9710.2	10783.0	12185.9	12628.1	12586.7	11544.6
42.5°	5620.6	5706.2	6068.2	6868.5	8245.9	9887.9	11278.7	13026.2	13451.1	13497.8	12383.6
45°	5276.0	5344.1	5660.7	6396.9	8001.4	9984.1	11743.6	13922.7	14409.0	14359.6	13278.7
47.5°	4851.1	4952.6	5290.6	6013.4	7561.9	9960.0	12188.5	14809.8	15350.9	15305.5	14055.0
50°	3742.2	3859.8	4645.4	5611.3	7000.8	9771.7	12592.0	15658.2	16330.2	16211.3	14876.6
52.5°	3398.8	3432.2	3744.9	5149.0	6447.6	9344.1	12888.6	16729.7	17127.8	17081.0	15709.0
55°	3189.1	3253.2	3396.2	4241.9	5950.6	8649.4	13094.4	17624.8	18073.7	17854.6	16462.5
57.5°	3004.7	3050.1	3219.8	3631.3	5378.8	7692.8	13034.2	18379.7	18780.5	18474.5	17198.6
60°	2808.3	2837.7	3007.4	3314.7	4761.6	6636.0	12423.7	19158.6	19336.3	19055.7	17821.2
62.5°	2656.0	2684.1	2785.6	3080.9	4280.6	5879.8	11424.3	19213.3	19651.6	19447.1	18350.3
65°	2461.0	2479.7	2606.6	2839.0	3834.4	5429.6	10543.9	18699.0	19499.3	19448.5	18553.3
67.5°	2245.9	2268.6	2388.8	2553.1	3263.9	4899.2	9071.6	18421.1	18855.3	18904.7	18172.6
70°	1993.3	2009.4	2133.6	2252.5	2792.3	4300.7	7211.9	17356.3	17862.6	17861.3	16996.9
72.5°	1720.8	1719.5	1842.4	1968.0	2339.4	3612.6	5646.0	15409.7	16749.7	16649.5	15324.2
75°	1418.9	1438.9	1557.8	1656.7	1946.6	2928.6	3931.9	11162.5	14787.1	14924.7	13225.3
77.5°	907.2	920.5	987.3	1088.9	1361.4	2237.8	2565.2	6203.2	9873.2	11909.3	10410.3
80°	662.7	669.3	728.1	786.9	905.8	1362.7	1304.0	2696.1	3913.2	5846.4	6386.2
82.5°	451.6	452.9	499.7	513.0	519.7	614.6	618.6	1312.0	1863.8	2195.1	2820.3
85°	299.3	248.5	193.7	256.5	263.2	225.8	220.4	591.9	924.5	1108.9	1044.8
87.5°	66.8	65.5	76.2	77.5	74.8	64.1	53.4	90.8	138.9	137.6	176.4
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°	5336.1	5336.1	5336.1	5336.1	5336.1	5336.1	5336.1	5336.1	5336.1	5336.1	5336.1
2.5°	5349.4	5342.8	5305.3	5226.5	5173.1	5118.3	5087.6	5068.9	5075.5	5044.8	5031.5
5°	5362.8	5329.4	5223.8	5130.3	5046.2	4951.3	4872.5	4861.8	4877.8	4849.8	4833.7
7.5°	5397.5	5326.7	5191.8	5031.5	4891.2	4801.7	4688.1	4630.7	4626.6	4598.6	4603.9
10°	5417.6	5325.4	5145.0	4951.3	4787.0	4628.0	4506.4	4442.3	4438.3	4398.2	4388.8
12.5°	5472.3	5340.1	5090.2	4853.8	4670.7	4458.3	4330.0	4271.3	4264.6	4208.5	4187.1
15°	5556.5	5373.5	5032.8	4740.2	4503.7	4304.7	4151.0	4072.2	4060.2	3994.7	3972.0
17.5°	5690.1	5468.3	5015.4	4637.3	4358.1	4140.3	3960.0	3874.5	3805.0	3768.9	3738.2
20°	5870.5	5585.9	5035.5	4541.1	4175.1	3923.9	3699.4	3587.2	3539.1	3480.3	3484.3
22.5°	6127.0	5770.3	5070.2	4466.3	4009.4	3692.8	3440.3	3314.7	3227.8	3178.4	3181.1
25°	6487.7	6048.2	5138.3	4395.5	3829.0	3440.3	3142.3	2967.3	2879.1	2847.1	2813.7
27.5°	6943.3	6380.8	5300.0	4308.7	3615.3	3154.3	2824.4	2619.9	2530.4	2482.3	2475.6
30°	7528.5	6817.7	5489.7	4244.5	3390.8	2797.6	2430.2	2268.6	2189.7	2121.6	2089.5
32.5°	8241.9	7435.0	5700.8	4180.4	3112.9	2398.2	2065.5	1941.2	1815.7	1728.8	1732.8
35°	9070.3	8107.0	6014.8	4098.9	2786.9	2025.4	1795.6	1635.3	1517.7	1460.3	1433.6
37.5°	9851.8	8796.4	6383.5	4016.1	2422.2	1783.6	1529.7	1381.4	1290.6	1246.5	1255.9
40°	10642.8	9507.1	6701.5	3813.0	2013.4	1564.5	1266.5	1182.4	1146.3	1111.6	1115.6
42.5°	11350.8	10073.6	6934.0	3587.2	1727.5	1313.3	1079.5	1098.2	1119.6	1099.5	1094.2
45°	12088.3	10736.3	7138.4	3202.4	1488.3	1115.6	1032.7	1084.9	1131.6	1128.9	1122.3
47.5°	12828.5	11350.8	7158.4	2692.1	1270.6	1048.8	1031.4	1070.2	1131.6	1142.3	1134.3
50°	13591.4	11994.8	7040.8	2090.9	1178.4	1056.8	1032.7	1039.4	1107.6	1119.6	1115.6
52.5°	14437.1	12690.9	6750.9	1589.9	1142.3	1070.2	1036.8	1027.4	1066.1	1087.5	1091.5
55°	15214.6	13244.0	6207.2	1404.2	1115.6	1071.5	1066.1	1035.4	1036.8	1026.1	1052.8
57.5°	15867.9	13771.7	5589.9	1302.6	1091.5	1059.5	1079.5	1022.1	1006.0	961.9	951.2
60°	16544.0	14200.6	4721.5	1233.1	1063.5	1044.8	1046.1	999.3	959.3	895.1	876.4
62.5°	17023.6	14427.7	3878.5	1151.7	1024.7	1022.1	1002.0	967.3	931.2	875.1	867.1
65°	17162.5	14307.5	2979.3	1066.1	974.0	984.6	948.6	900.5	750.8	681.4	681.4
67.5°	16703.0	13567.3	2205.8	967.3	912.5	933.9	863.1	709.4	631.9	590.5	597.2
70°	15443.1	12371.6	1436.2	823.0	824.3	841.7	712.1	638.6	565.1	539.8	553.1
72.5°	13759.7	10598.7	947.2	656.0	694.7	665.3	650.6	587.8	522.4	493.0	502.3
75°	11338.8	8368.8	657.3	515.7	450.2	567.8	578.5	494.3	443.6	538.4	559.8
77.5°	8958.0	5817.0	542.4	360.7	332.7	419.5	463.6	458.3	733.5	861.7	852.4
80°	5326.7	3349.4	442.2	249.8	235.1	269.9	364.7	526.4	821.7	617.2	587.8
82.5°	2415.5	1523.1	235.1	130.9	153.6	179.0	272.5	654.7	538.4	395.5	372.8
85°	943.2	497.0	93.5	57.4	53.4	66.8	124.3	315.3	216.4	175.0	175.0
87.5°	121.6	89.5	26.7	20.0	17.4	21.4	40.1	175.0	101.5	85.5	82.8
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)