

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: P510317

Luminaire Tested: **VERD-M-CA4-250-730-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510317
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-CA4-250-730-U-T2
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 3000K, 1130mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33937 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

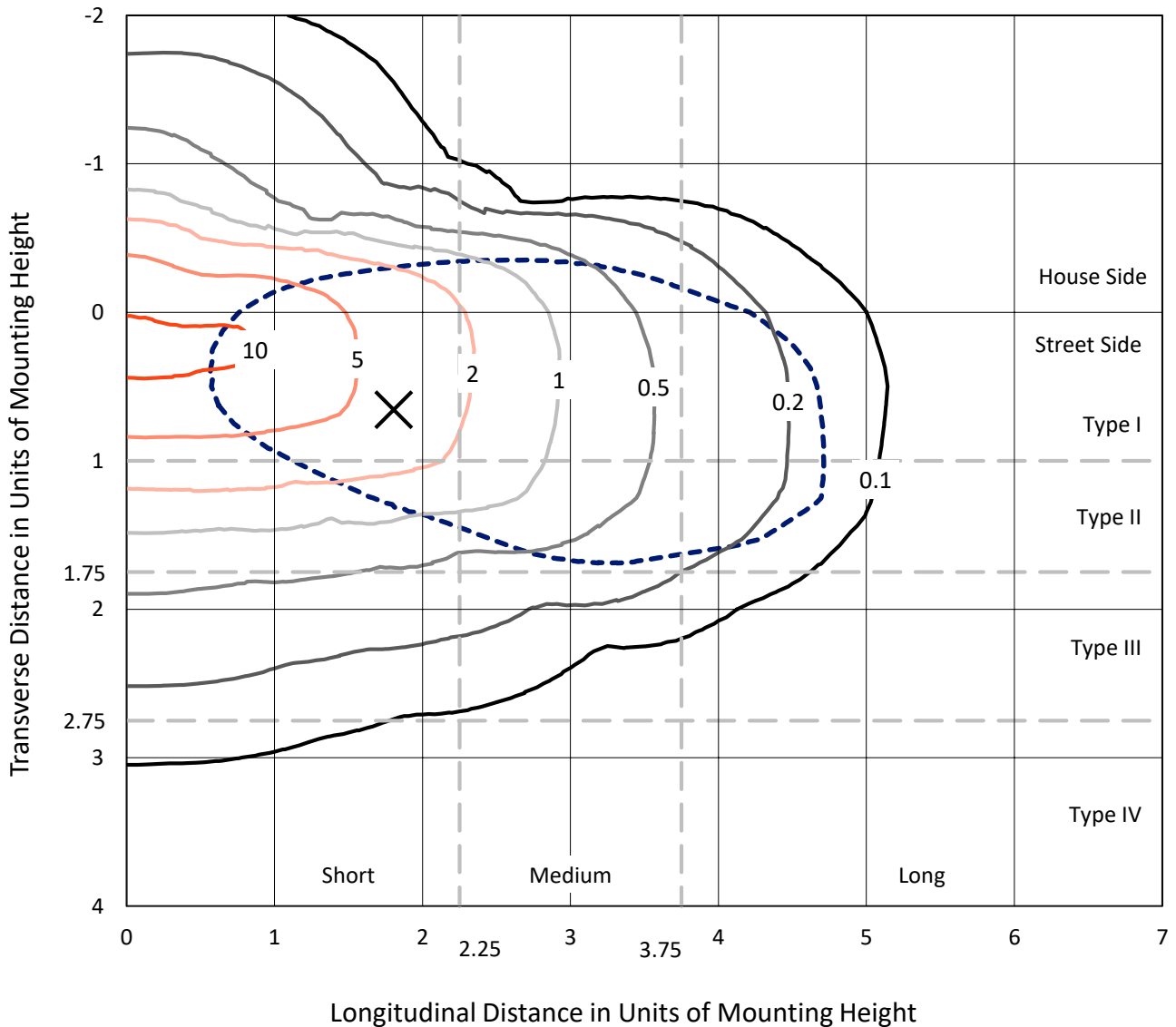
Input Watts (W): 251.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

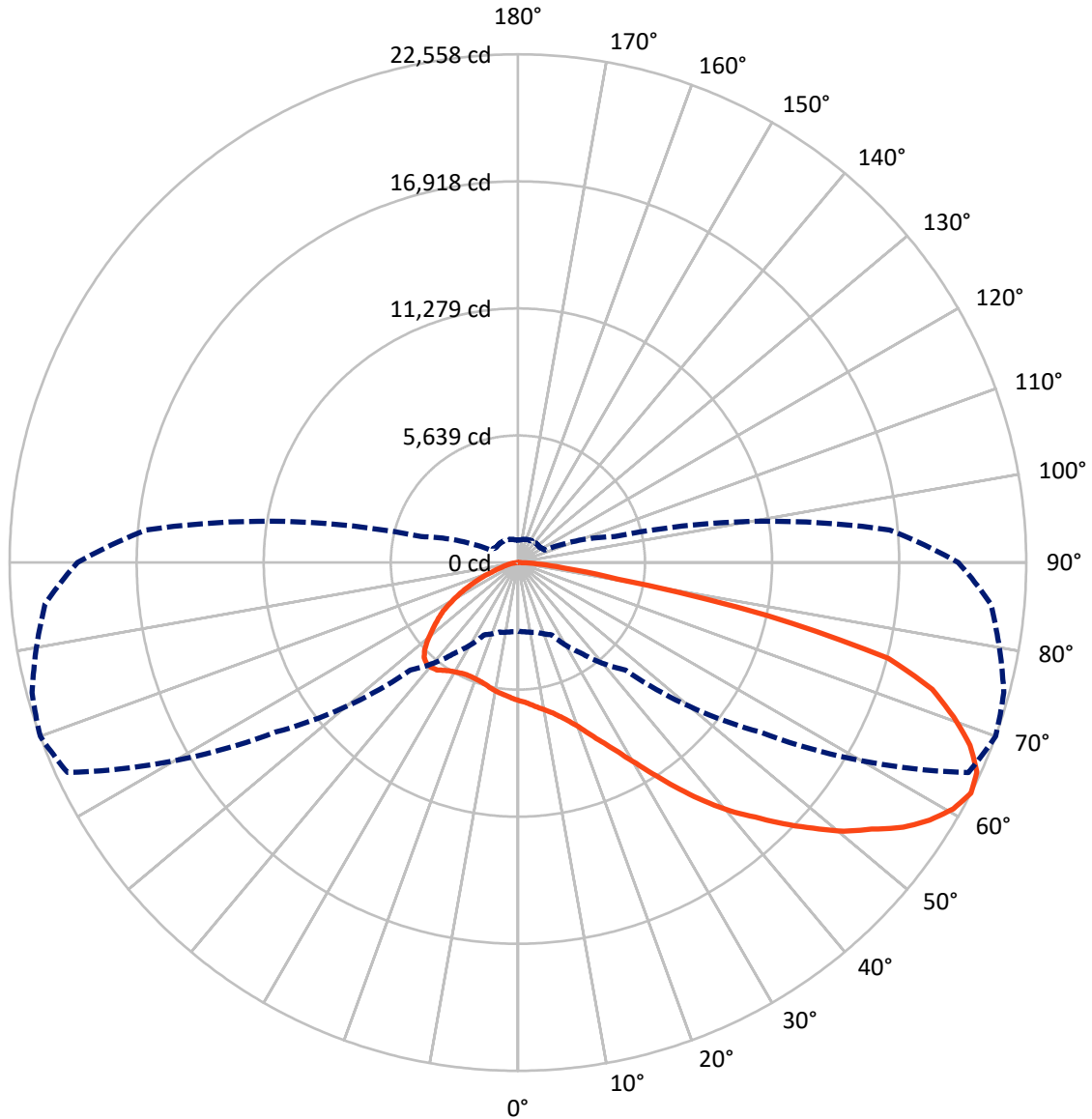
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	8786.4	0.0	8786.4
	% Fixture	25.9	0.0	25.9
Street Side	Lumens	25150.5	0.0	25150.5
	% Fixture	74.1	0.0	74.1
Total	Lumens	33937.0	0.0	33937.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.3	1.7
10°-20°	1786.6	5.3
20°-30°	3032.2	8.9
30°-40°	4387.5	12.9
40°-50°	5757.4	17.0
50°-60°	6727.3	19.8
60°-70°	6751.2	19.9
70°-80°	4301.9	12.7
80°-90°	604.6	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°	33937.0	100.0
0°-180°	33937.0	100.0

Coefficient of Utilization



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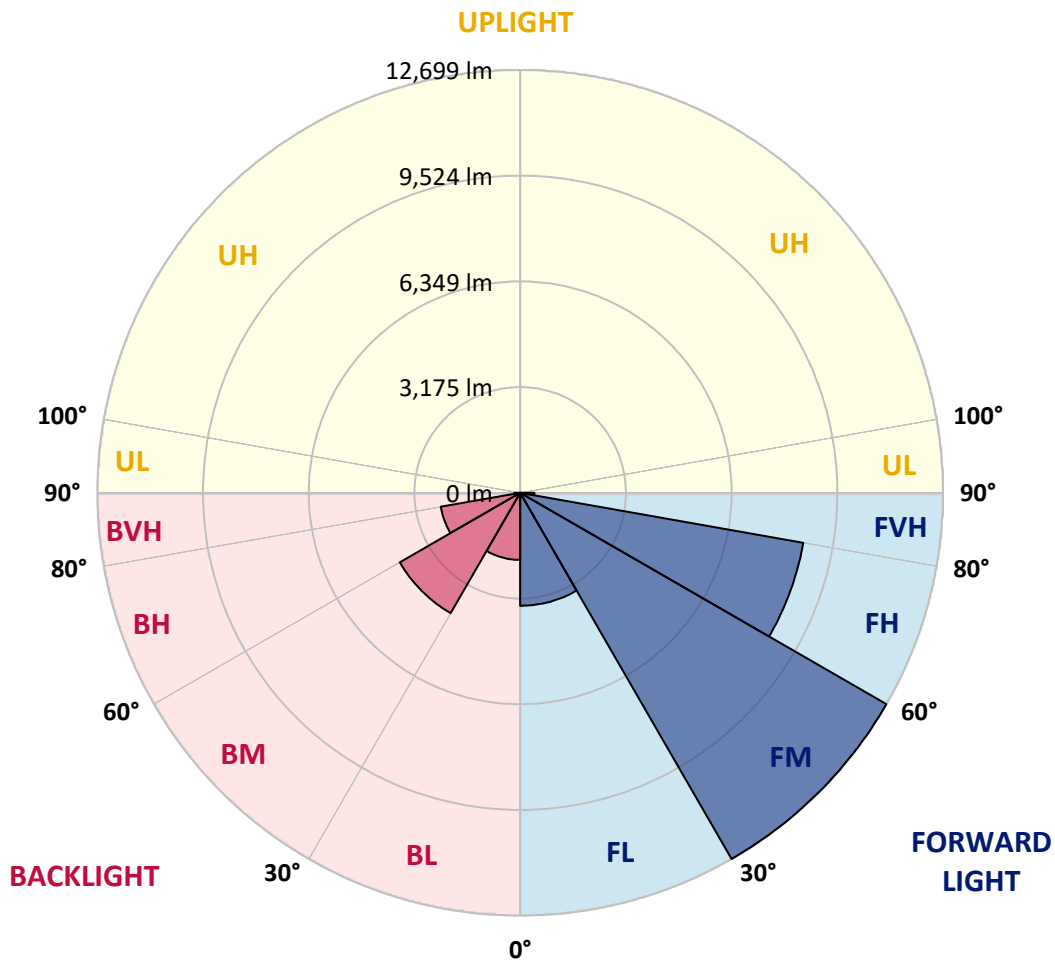
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3392.0	10.0			
FM (30°-60°)	12698.9	37.4			
FH (60°-80°)	8633.2	25.4			G4/12000
FVH (80°-90°)	426.4	1.3			G3/500
BL (0°-30°)	2015.1	5.9	B3/2500		
BM (30°-60°)	4173.3	12.3	B3/5000		
BH (60°-80°)	2419.9	7.1	B3/2500		G3/2500
BVH (80°-90°)	178.1	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°	6125.2	6125.2	6125.2	6125.2	6125.2	6125.2	6125.2	6125.2	6125.2	6125.2	6125.2
2.5°	6359.8	6427.3	6418.1	6376.7	6405.8	6326.1	6296.9	6252.4	6206.4	6191.1	6165.0
5°	6660.4	6749.3	6732.5	6677.3	6675.7	6562.2	6497.8	6413.5	6342.9	6287.7	6206.4
7.5°	6941.0	7043.8	7028.4	6974.8	6971.7	6841.3	6707.9	6576.0	6494.8	6424.2	6275.5
10°	7238.5	7316.8	7303.0	7233.9	7220.1	7092.9	6936.4	6770.8	6651.2	6553.0	6341.4
12.5°	7513.1	7595.9	7602.0	7516.1	7494.7	7358.2	7221.7	7002.4	6847.5	6735.5	6424.2
15°	7769.2	7867.3	7848.9	7763.0	7740.0	7602.0	7468.6	7266.2	7105.1	6948.7	6559.2
17.5°	7974.7	8068.2	8045.2	8006.9	7994.6	7887.3	7776.8	7557.5	7414.9	7214.0	6767.7
20°	8115.8	8203.2	8212.4	8201.6	8272.2	8171.0	8109.6	7954.7	7798.3	7617.3	7053.0
22.5°	8171.0	8275.3	8364.2	8433.2	8578.9	8563.6	8552.8	8463.9	8310.5	8046.7	7430.2
25°	8187.8	8292.1	8430.1	8600.4	8861.1	8954.6	9022.1	9043.6	8876.4	8667.9	7899.5
27.5°	8190.9	8302.9	8443.9	8718.5	9115.7	9397.8	9558.9	9634.0	9540.5	9374.8	8537.5
30°	8126.5	8241.5	8422.5	8789.0	9315.0	9778.2	10045.0	10377.8	10337.9	10198.4	9336.5
32.5°	7940.9	8045.2	8295.2	8776.7	9512.9	10167.7	10583.3	11159.9	11294.9	11204.4	10258.2
35°	7608.1	7735.4	8059.0	8675.5	9620.2	10546.5	11216.7	12113.8	12357.7	12363.8	11388.4
37.5°	7272.3	7368.9	7749.2	8485.4	9680.0	10882.4	11817.8	13069.3	13423.5	13431.2	12328.5
40°	6915.0	7003.9	7422.6	8230.8	9618.7	11146.1	12377.6	13987.9	14495.5	14448.0	13251.8
42.5°	6451.8	6550.0	6965.6	7884.2	9465.3	11350.1	12946.6	14952.5	15440.2	15493.9	14214.8
45°	6056.1	6134.4	6497.8	7342.8	9184.7	11460.5	13480.3	15981.5	16539.8	16483.0	15242.4
47.5°	5568.5	5685.0	6073.0	6902.7	8680.1	11432.9	13990.9	16999.8	17621.0	17568.8	16133.4
50°	4295.6	4430.5	5332.3	6441.1	8036.0	11216.7	14454.1	17973.7	18745.1	18608.6	17076.5
52.5°	3901.5	3939.8	4298.7	5910.5	7401.1	10725.9	14794.5	19203.6	19660.6	19607.0	18032.0
55°	3660.7	3734.3	3898.4	4869.1	6830.6	9928.5	15030.7	20231.1	20746.4	20494.9	18896.9
57.5°	3449.0	3501.2	3696.0	4168.3	6174.2	8830.4	14961.7	21097.6	21557.7	21206.5	19741.9
60°	3223.6	3257.3	3452.1	3804.8	5465.7	7617.3	14260.9	21991.7	22195.7	21873.6	20456.6
62.5°	3048.8	3081.0	3197.5	3536.5	4913.6	6749.3	13113.7	22054.6	22557.6	22322.9	21063.9
65°	2824.9	2846.3	2992.0	3258.9	4401.4	6232.5	12103.1	21464.1	22382.8	22324.5	21297.0
67.5°	2578.0	2604.0	2742.1	2930.7	3746.6	5623.7	10413.1	21145.1	21643.6	21700.3	20859.9
70°	2288.1	2306.5	2449.1	2585.6	3205.2	4936.6	8278.3	19922.9	20504.1	20502.6	19510.3
72.5°	1975.3	1973.7	2114.8	2259.0	2685.3	4146.8	6481.0	17688.4	19226.6	19111.6	17590.3
75°	1628.7	1651.7	1788.2	1901.7	2234.4	3361.6	4513.4	12813.1	16973.8	17131.7	15181.0
77.5°	1041.3	1056.6	1133.3	1249.9	1562.7	2568.8	2944.5	7120.5	11333.2	13670.4	11949.7
80°	760.7	768.3	835.8	903.3	1039.8	1564.3	1496.8	3094.8	4491.9	6711.0	7330.6
82.5°	518.4	519.9	573.6	588.9	596.6	705.5	710.1	1506.0	2139.4	2519.7	3237.4
85°	343.5	285.2	222.4	294.4	302.1	259.2	253.0	679.4	1061.2	1272.9	1199.3
87.5°	76.7	75.1	87.4	88.9	85.9	73.6	61.3	104.3	159.5	158.0	202.4
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°	6125.2	6125.2	6125.2	6125.2	6125.2	6125.2	6125.2	6125.2	6125.2	6125.2	6125.2
2.5°	6140.5	6132.8	6089.9	5999.4	5938.1	5875.2	5839.9	5818.4	5826.1	5790.8	5775.5
5°	6155.8	6117.5	5996.3	5889.0	5792.4	5683.5	5593.0	5580.7	5599.1	5566.9	5548.5
7.5°	6195.7	6114.4	5959.5	5775.5	5614.5	5511.7	5381.4	5315.4	5310.8	5278.6	5284.8
10°	6218.7	6112.9	5905.9	5683.5	5494.9	5312.4	5172.8	5099.2	5094.6	5048.6	5037.8
12.5°	6281.6	6129.8	5843.0	5571.5	5361.4	5117.6	4970.4	4902.9	4895.2	4830.8	4806.3
15°	6378.2	6168.1	5777.0	5441.2	5169.7	4941.2	4764.9	4674.4	4660.6	4585.4	4559.4
17.5°	6531.6	6277.0	5757.1	5323.1	5002.6	4752.6	4545.6	4447.4	4367.7	4326.3	4291.0
20°	6738.6	6411.9	5780.1	5212.7	4792.5	4504.2	4246.5	4117.7	4062.5	3995.0	3999.6
22.5°	7033.0	6623.6	5820.0	5126.8	4602.3	4238.8	3949.0	3804.8	3705.2	3648.4	3651.5
25°	7447.1	6942.6	5898.2	5045.5	4395.3	3949.0	3607.0	3406.1	3304.9	3268.1	3229.7
27.5°	7970.1	7324.4	6083.8	4945.8	4149.9	3620.8	3242.0	3007.4	2904.6	2849.4	2841.7
30°	8641.8	7825.9	6301.5	4872.2	3892.3	3211.3	2789.6	2604.0	2513.6	2435.3	2398.5
32.5°	9460.7	8534.4	6543.8	4798.6	3573.3	2752.8	2370.9	2228.3	2084.1	1984.5	1989.1
35°	10411.5	9305.8	6904.2	4705.1	3199.1	2324.9	2061.1	1877.1	1742.2	1676.2	1645.5
37.5°	11308.7	10097.2	7327.5	4610.0	2780.4	2047.3	1756.0	1585.7	1481.4	1430.8	1441.6
40°	12216.6	10913.0	7692.5	4376.9	2311.1	1795.8	1453.8	1357.2	1315.8	1275.9	1280.5
42.5°	13029.4	11563.3	7959.3	4117.7	1982.9	1507.5	1239.1	1260.6	1285.1	1262.1	1256.0
45°	13875.9	12323.9	8194.0	3676.0	1708.4	1280.5	1185.5	1245.3	1299.0	1295.9	1288.2
47.5°	14725.5	13029.4	8217.0	3090.2	1458.4	1203.9	1183.9	1228.4	1299.0	1311.2	1302.0
50°	15601.2	13768.6	8082.0	2400.1	1352.6	1213.1	1185.5	1193.1	1271.3	1285.1	1280.5
52.5°	16572.0	14567.6	7749.2	1825.0	1311.2	1228.4	1190.1	1179.3	1223.8	1248.3	1252.9
55°	17464.5	15202.5	7125.1	1611.8	1280.5	1229.9	1223.8	1188.5	1190.1	1177.8	1208.5
57.5°	18214.5	15808.2	6416.5	1495.3	1252.9	1216.1	1239.1	1173.2	1154.8	1104.2	1091.9
60°	18990.4	16300.5	5419.7	1415.5	1220.7	1199.3	1200.8	1147.1	1101.1	1027.5	1006.0
62.5°	19541.0	16561.2	4452.0	1322.0	1176.3	1173.2	1150.2	1110.3	1068.9	1004.5	995.3
65°	19700.5	16423.2	3419.9	1223.8	1118.0	1130.3	1088.8	1033.6	861.9	782.1	782.1
67.5°	19172.9	15573.6	2532.0	1110.3	1047.4	1072.0	990.7	814.3	725.4	677.8	685.5
70°	17726.8	14201.0	1648.6	944.7	946.2	966.2	817.4	733.1	648.7	619.6	634.9
72.5°	15794.4	12166.0	1087.3	753.0	797.5	763.7	746.9	674.8	599.6	565.9	576.6
75°	13015.6	9606.4	754.5	592.0	516.8	651.8	664.0	567.4	509.2	618.0	642.6
77.5°	10282.7	6677.3	622.6	414.1	381.9	481.5	532.2	526.0	841.9	989.2	978.4
80°	6114.4	3844.7	507.6	286.8	269.9	309.8	418.7	604.2	943.2	708.5	674.8
82.5°	2772.7	1748.3	269.9	150.3	176.4	205.5	312.9	751.5	618.0	453.9	427.9
85°	1082.7	570.5	107.4	65.9	61.3	76.7	142.6	361.9	248.4	200.9	200.9
87.5°	139.6	102.8	30.7	23.0	19.9	24.5	46.0	200.9	116.6	98.1	95.1
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)