

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: P510285

Luminaire Tested: **VERD-M-CA4-240-750-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510285
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-CA4-240-750-U-T2
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5000K, 1090mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34054 lumens
Efficiency: N/A
Efficacy: 140.5 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

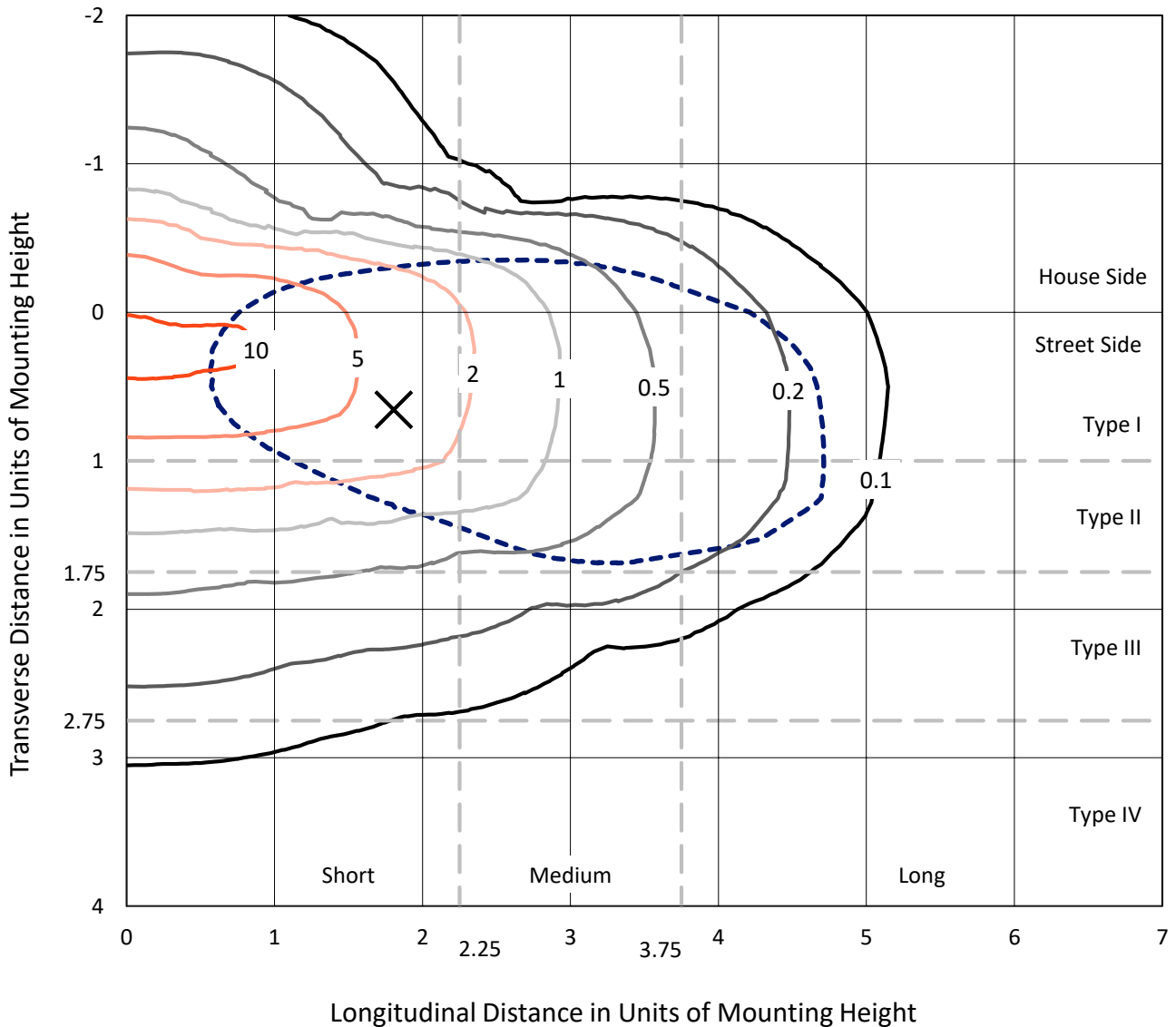
Input Watts (W): 242.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

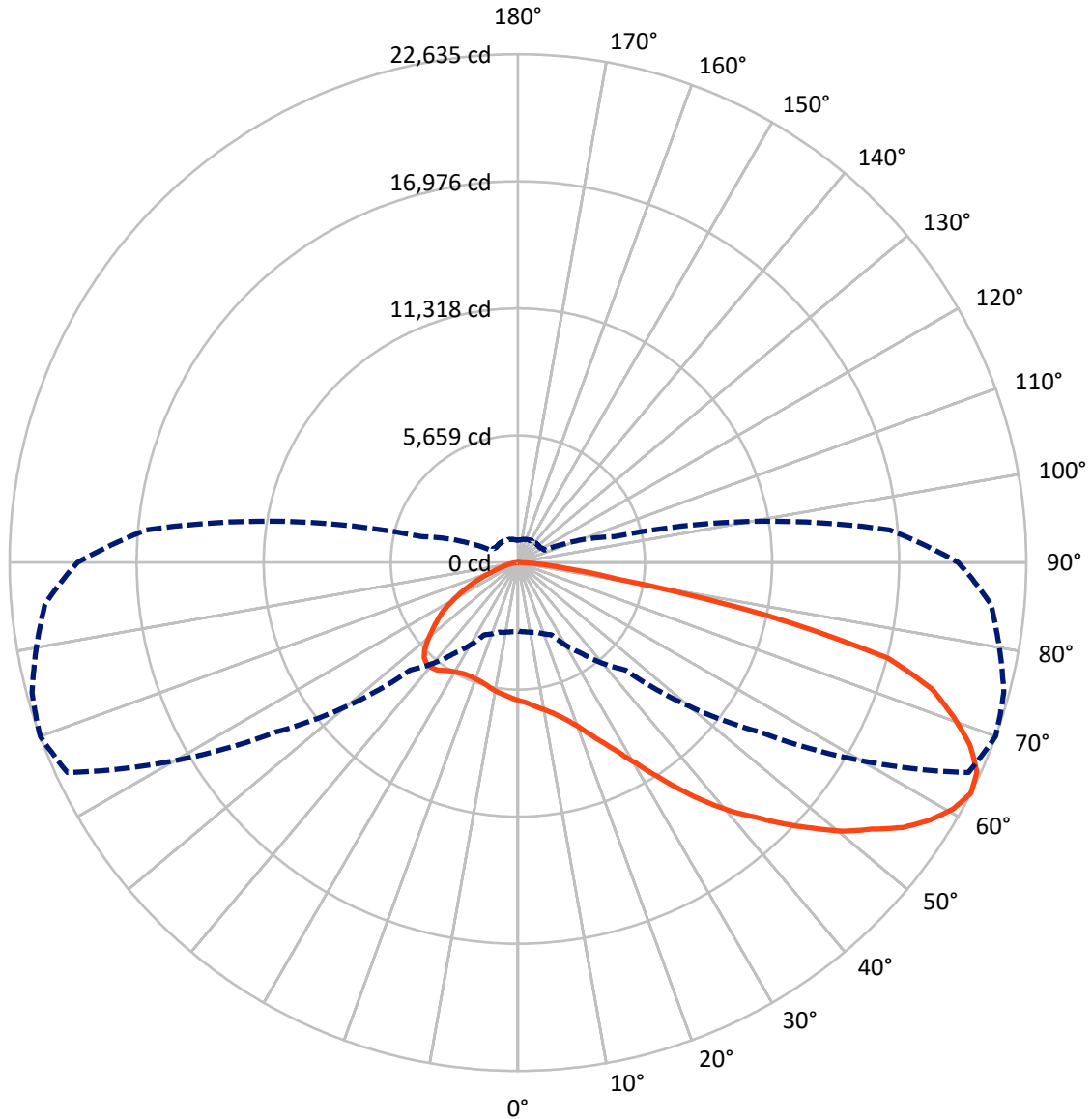
✕ Max cd
 - - - 1/2 Max cd



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	8816.7	0.0	8816.7
	% Fixture	25.9	0.0	25.9
Street Side	Lumens	25237.3	0.0	25237.3
	% Fixture	74.1	0.0	74.1
Total	Lumens	34054.0	0.0	34054.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	590.3	1.7
10°-20°	1792.8	5.3
20°-30°	3042.7	8.9
30°-40°	4402.6	12.9
40°-50°	5777.2	17.0
50°-60°	6750.5	19.8
60°-70°	6774.4	19.9
70°-80°	4316.8	12.7
80°-90°	606.7	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°	34054.0	100.0
0°-180°	34054.0	100.0

Coefficient of Utilization



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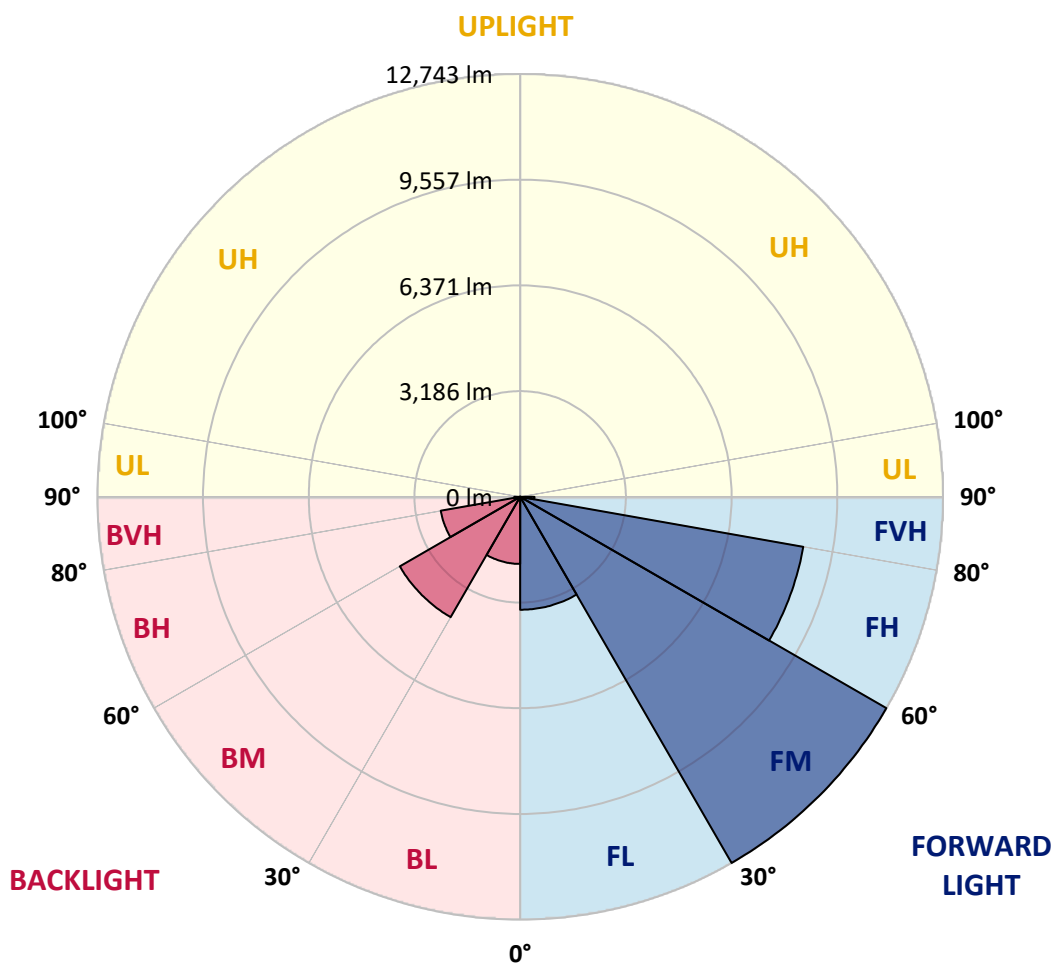
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3403.7	10.0			
FM (30°-60°)	12742.6	37.4			
FH (60°-80°)	8663.0	25.4			G4/12000
FVH (80°-90°)	427.9	1.3			G3/500
BL (0°-30°)	2022.1	5.9	B3/2500		
BM (30°-60°)	4187.7	12.3	B3/5000		
BH (60°-80°)	2428.2	7.1	B3/2500		G3/2500
BVH (80°-90°)	178.7	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°	6146.3	6146.3	6146.3	6146.3	6146.3	6146.3	6146.3	6146.3	6146.3	6146.3	6146.3
2.5°	6381.7	6449.4	6440.2	6398.7	6427.9	6347.9	6318.6	6274.0	6227.8	6212.4	6186.3
5°	6683.3	6772.6	6755.7	6700.3	6698.7	6584.9	6520.2	6435.6	6364.8	6309.4	6227.8
7.5°	6965.0	7068.1	7052.7	6998.8	6995.7	6864.9	6731.1	6598.7	6517.1	6446.4	6297.1
10°	7263.5	7342.0	7328.1	7258.9	7245.0	7117.3	6960.3	6794.1	6674.1	6575.6	6363.3
12.5°	7539.0	7622.1	7628.2	7542.0	7520.5	7383.5	7246.6	7026.5	6871.1	6758.8	6446.4
15°	7796.0	7894.4	7876.0	7789.8	7766.7	7628.2	7494.3	7291.2	7129.6	6972.7	6581.8
17.5°	8002.2	8096.0	8073.0	8034.5	8022.2	7914.4	7803.6	7583.6	7440.5	7238.9	6791.1
20°	8143.7	8231.5	8240.7	8229.9	8300.7	8199.1	8137.6	7982.2	7825.2	7643.6	7077.3
22.5°	8199.1	8303.8	8393.0	8462.3	8608.5	8593.1	8582.3	8493.1	8339.2	8074.5	7455.9
25°	8216.1	8320.7	8459.2	8630.0	8891.6	8985.5	9053.2	9074.8	8907.0	8697.7	7926.8
27.5°	8219.1	8331.5	8473.1	8748.5	9147.1	9430.2	9591.8	9667.2	9573.4	9407.2	8566.9
30°	8154.5	8269.9	8451.5	8819.3	9347.1	9811.9	10079.6	10413.6	10373.6	10233.5	9368.7
32.5°	7968.3	8073.0	8323.8	8807.0	9545.7	10202.8	10619.8	11198.4	11333.8	11243.0	10293.6
35°	7634.4	7762.1	8086.8	8705.4	9653.4	10582.9	11255.4	12155.6	12400.3	12406.4	11427.7
37.5°	7297.4	7394.3	7775.9	8514.6	9713.4	10919.9	11858.6	13114.3	13469.8	13477.5	12371.0
40°	6938.8	7028.1	7448.2	8259.2	9651.8	11184.6	12420.3	14036.1	14545.5	14497.8	13297.4
42.5°	6474.1	6572.5	6989.6	7911.4	9498.0	11389.2	12991.2	15004.1	15493.4	15547.3	14263.9
45°	6077.0	6155.5	6520.2	7368.1	9216.3	11500.0	13526.7	16036.6	16596.8	16539.9	15294.9
47.5°	5587.7	5704.6	6094.0	6926.5	8710.0	11472.3	14039.2	17058.5	17681.7	17629.4	16189.0
50°	4310.4	4445.8	5350.7	6463.3	8063.7	11255.4	14503.9	18035.6	18809.7	18672.7	17135.4
52.5°	3914.9	3953.4	4313.5	5930.8	7426.6	10762.9	14845.6	19269.8	19728.4	19674.5	18094.1
55°	3673.3	3747.2	3911.8	4885.9	6854.2	9962.7	15082.5	20300.9	20817.9	20565.6	18962.0
57.5°	3460.9	3513.3	3708.7	4182.7	6195.5	8860.9	15013.3	21170.3	21632.0	21279.6	19810.0
60°	3234.7	3268.6	3464.0	3818.0	5484.6	7643.6	14310.0	22067.5	22272.2	21949.0	20527.1
62.5°	3059.3	3091.6	3208.6	3548.7	4930.6	6772.6	13158.9	22130.6	22635.3	22399.9	21136.5
65°	2834.6	2856.2	3002.4	3270.1	4416.6	6254.0	12144.8	21538.1	22459.9	22401.4	21370.4
67.5°	2586.9	2613.0	2751.5	2940.8	3759.5	5643.1	10449.0	21218.0	21718.2	21775.1	20931.8
70°	2296.0	2314.5	2457.6	2594.5	3216.3	4953.6	8306.9	19991.6	20574.8	20573.3	19577.6
72.5°	1982.1	1980.5	2122.1	2266.8	2694.6	4161.1	6503.3	17749.4	19292.9	19177.5	17650.9
75°	1634.3	1657.4	1794.3	1908.2	2242.1	3373.2	4528.9	12857.3	17032.3	17190.8	15233.3
77.5°	1044.9	1060.3	1137.2	1254.2	1568.1	2577.6	2954.6	7145.0	11372.3	13717.6	11990.9
80°	763.3	771.0	838.7	906.4	1043.4	1569.7	1501.9	3105.5	4507.4	6734.1	7355.8
82.5°	520.1	521.7	575.5	590.9	598.6	707.9	712.5	1511.2	2146.7	2528.4	3248.6
85°	344.7	286.2	223.1	295.5	303.2	260.1	253.9	681.7	1064.9	1277.3	1203.4
87.5°	76.9	75.4	87.7	89.3	86.2	73.9	61.6	104.6	160.0	158.5	203.1
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°	6146.3	6146.3	6146.3	6146.3	6146.3	6146.3	6146.3	6146.3	6146.3	6146.3	6146.3
2.5°	6161.7	6154.0	6110.9	6020.1	5958.5	5895.4	5860.0	5838.5	5846.2	5810.8	5795.4
5°	6177.1	6138.6	6017.0	5909.3	5812.3	5703.1	5612.3	5600.0	5618.4	5586.1	5567.7
7.5°	6217.1	6135.5	5980.1	5795.4	5633.8	5530.7	5399.9	5333.7	5329.1	5296.8	5303.0
10°	6240.1	6134.0	5926.2	5703.1	5513.8	5330.7	5190.6	5116.8	5112.2	5066.0	5055.2
12.5°	6303.2	6150.9	5863.1	5590.7	5379.9	5135.2	4987.5	4919.8	4912.1	4847.5	4822.8
15°	6400.2	6189.4	5797.0	5459.9	5187.6	4958.3	4781.3	4690.5	4676.6	4601.2	4575.1
17.5°	6554.1	6298.6	5776.9	5341.4	5019.8	4769.0	4561.2	4462.7	4382.7	4341.2	4305.8
20°	6761.8	6434.0	5800.0	5230.6	4809.0	4519.7	4261.2	4131.9	4076.5	4008.8	4013.4
22.5°	7057.3	6646.4	5840.0	5144.5	4618.2	4253.5	3962.6	3818.0	3717.9	3661.0	3664.1
25°	7472.8	6966.5	5918.5	5062.9	4410.4	3962.6	3619.4	3417.8	3316.3	3279.3	3240.9
27.5°	7997.5	7349.7	6104.7	4962.9	4164.2	3633.3	3253.2	3017.7	2914.6	2859.2	2851.5
30°	8671.6	7852.9	6323.2	4889.0	3905.7	3222.4	2799.2	2613.0	2522.2	2443.7	2406.8
32.5°	9493.3	8563.9	6566.4	4815.1	3585.6	2762.3	2379.1	2236.0	2091.3	1991.3	1995.9
35°	10447.4	9337.9	6928.0	4721.3	3210.1	2332.9	2068.3	1883.6	1748.2	1682.0	1651.2
37.5°	11347.7	10132.0	7352.8	4625.9	2790.0	2054.4	1762.0	1591.2	1486.6	1435.8	1446.5
40°	12258.7	10950.7	7719.0	4392.0	2319.1	1802.0	1458.9	1361.9	1320.4	1280.3	1285.0
42.5°	13074.3	11603.1	7986.8	4131.9	1989.8	1512.7	1243.4	1265.0	1289.6	1266.5	1260.3
45°	13923.8	12366.4	8222.2	3688.7	1714.3	1285.0	1189.6	1249.6	1303.4	1300.4	1292.7
47.5°	14776.3	13074.3	8245.3	3100.8	1463.5	1208.0	1188.0	1232.6	1303.4	1315.7	1306.5
50°	15655.0	13816.0	8109.9	2408.3	1357.3	1217.3	1189.6	1197.2	1275.7	1289.6	1285.0
52.5°	16629.1	14617.8	7775.9	1831.3	1315.7	1232.6	1194.2	1183.4	1228.0	1252.6	1257.3
55°	17524.7	15254.9	7149.6	1617.4	1285.0	1234.2	1228.0	1192.6	1194.2	1181.9	1212.6
57.5°	18277.2	15862.7	6438.7	1500.4	1257.3	1220.3	1243.4	1177.2	1158.8	1108.0	1095.7
60°	19055.9	16356.7	5438.4	1420.4	1224.9	1203.4	1204.9	1151.1	1104.9	1031.0	1009.5
62.5°	19608.4	16618.3	4467.4	1326.5	1180.3	1177.2	1154.2	1114.1	1072.6	1008.0	998.7
65°	19768.4	16479.8	3431.7	1228.0	1121.8	1134.2	1092.6	1037.2	864.8	784.8	784.8
67.5°	19239.0	15627.3	2540.7	1114.1	1051.1	1075.7	994.1	817.1	727.9	680.2	687.9
70°	17787.9	14250.0	1654.3	947.9	949.5	969.5	820.2	735.6	650.9	621.7	637.1
72.5°	15848.9	12207.9	1091.1	755.6	800.2	766.4	749.4	677.1	601.7	567.8	578.6
75°	13060.5	9639.5	757.1	594.0	518.6	654.0	666.3	569.4	510.9	620.2	644.8
77.5°	10318.2	6700.3	624.8	415.5	383.2	483.2	534.0	527.8	844.8	992.6	981.8
80°	6135.5	3858.0	509.4	287.8	270.8	310.9	420.1	606.3	946.4	711.0	677.1
82.5°	2782.3	1754.3	270.8	150.8	177.0	206.2	313.9	754.0	620.2	455.5	429.3
85°	1086.4	572.5	107.7	66.2	61.6	76.9	143.1	363.2	249.3	201.6	201.6
87.5°	140.0	103.1	30.8	23.1	20.0	24.6	46.2	201.6	117.0	98.5	95.4
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)