

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: P510284

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

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510284
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-3)
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-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5000K, 1090mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31160 lumens
Efficiency: N/A
Efficacy: 128.6 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

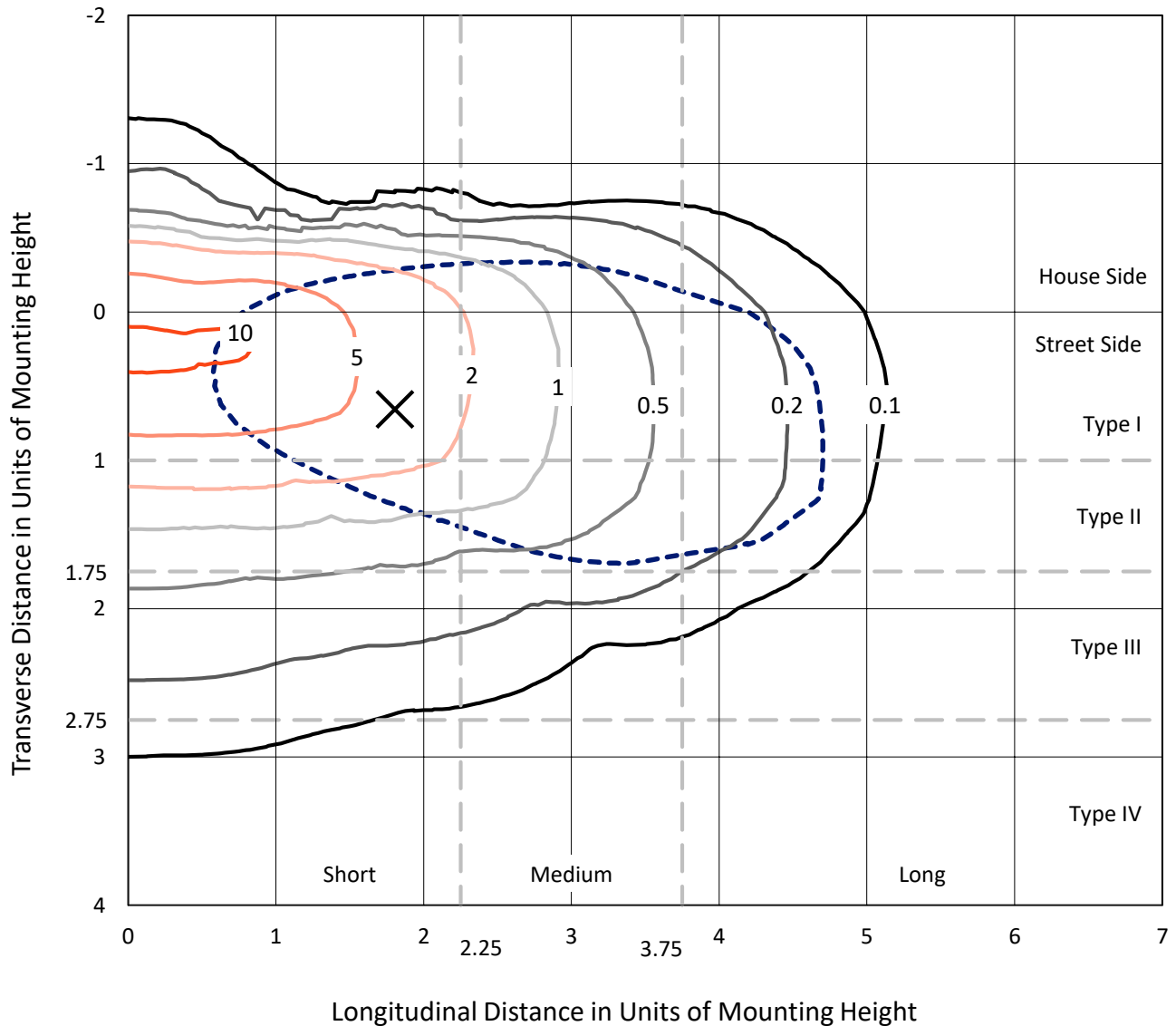
Input Watts (W): 242.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

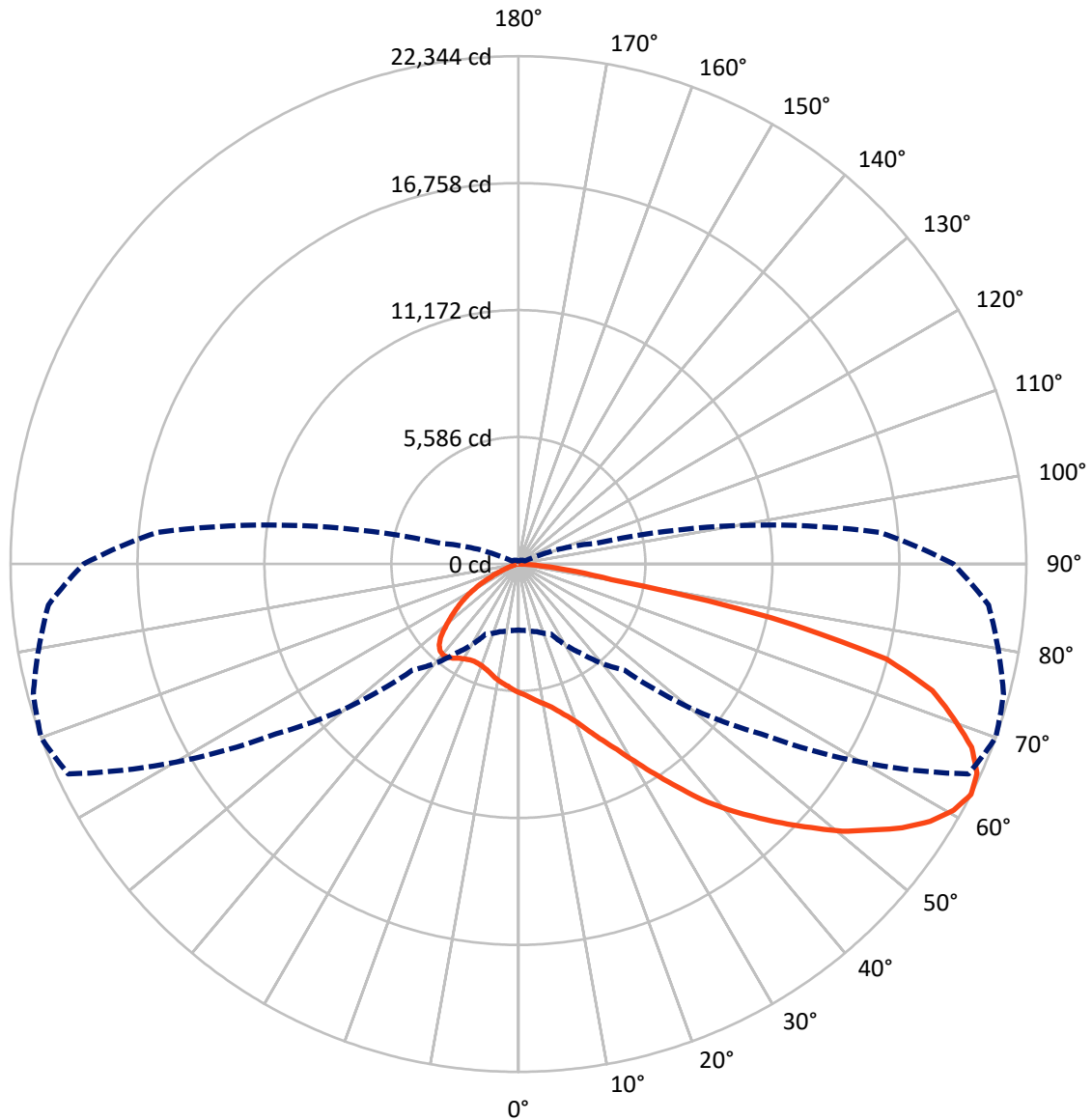
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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	6552.6	0.0	6552.6
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	24607.4	0.0	24607.4
	% Fixture	79.0	0.0	79.0
Total	Lumens	31160.0	0.0	31160.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.8	1.7
10°-20°	1605.1	5.2
20°-30°	2721.0	8.7
30°-40°	4001.5	12.8
40°-50°	5328.7	17.1
50°-60°	6233.5	20.0
60°-70°	6269.3	20.1
70°-80°	3968.6	12.7
80°-90°	494.5	1.6
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°	31160.0	100.0
0°-180°	31160.0	100.0

Coefficient of Utilization



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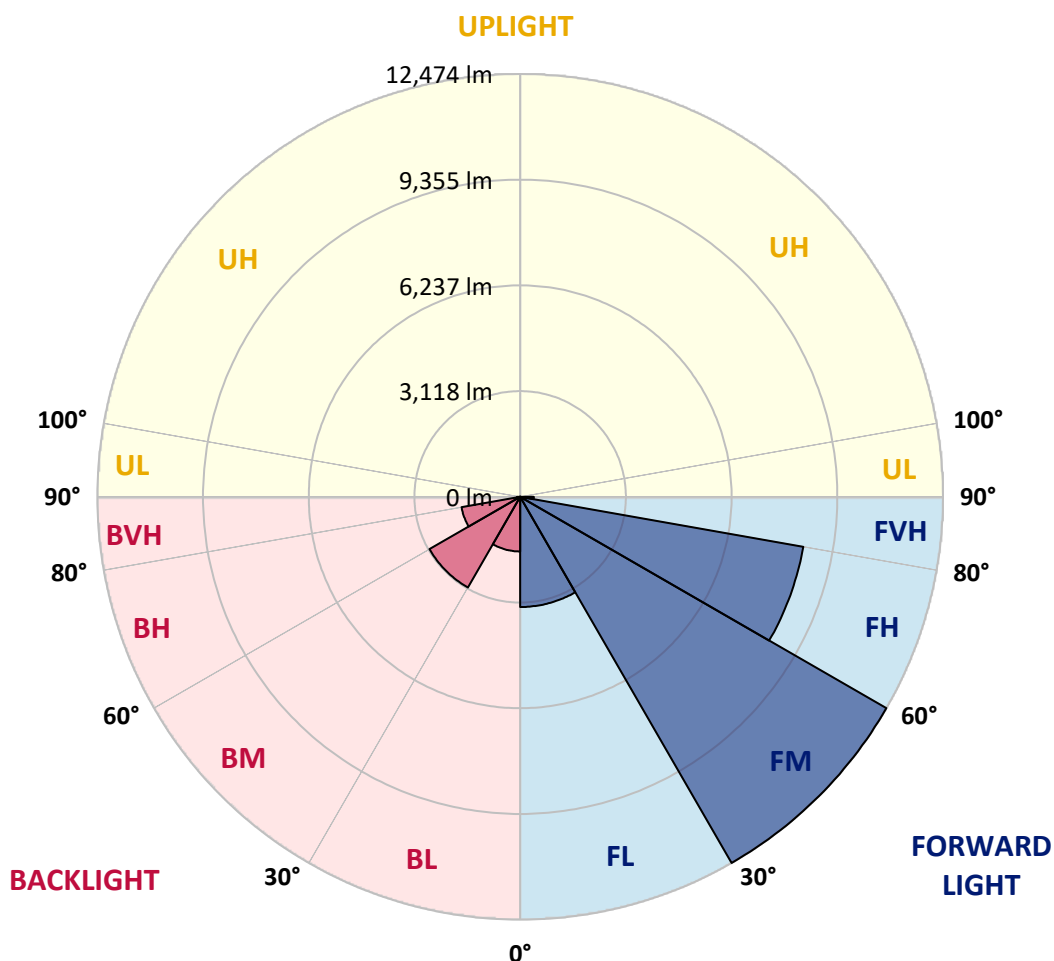
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3250.7	10.4			
FM	(30°-60°)	12473.9	40.0			
FH	(60°-80°)	8481.8	27.2			G4/12000
FVH	(80°-90°)	401.0	1.3			G3/500
BL	(0°-30°)	1613.3	5.2	B3/2500		
BM	(30°-60°)	3089.6	9.9	B3/5000		
BH	(60°-80°)	1756.2	5.6	B3/2500		G3/2500
BVH	(80°-90°)	93.5	0.3			G1/100
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°	5664.8	5664.8	5664.8	5664.8	5664.8	5664.8	5664.8	5664.8	5664.8	5664.8	5664.8
2.5°	5975.7	6028.0	5988.0	5972.6	5984.9	5923.4	5874.1	5803.3	5769.5	5744.8	5704.8
5°	6278.9	6365.0	6312.7	6280.4	6275.8	6163.4	6097.3	6000.3	5924.9	5858.7	5757.2
7.5°	6598.9	6649.7	6629.7	6592.8	6568.2	6431.2	6314.2	6177.3	6094.2	6006.5	5835.6
10°	6879.0	6940.6	6920.6	6854.4	6831.3	6691.3	6557.4	6371.2	6257.3	6148.0	5912.6
12.5°	7168.4	7237.6	7196.1	7129.9	7109.9	6968.3	6829.8	6603.6	6462.0	6338.9	6012.6
15°	7434.6	7497.7	7468.4	7393.0	7373.0	7253.0	7100.6	6889.8	6735.9	6572.8	6154.2
17.5°	7647.0	7710.1	7673.1	7637.7	7631.6	7513.1	7422.3	7206.8	7060.6	6839.0	6371.2
20°	7802.4	7867.0	7848.6	7865.5	7930.1	7842.4	7787.0	7605.4	7456.1	7216.1	6683.6
22.5°	7925.5	8008.6	8082.5	8116.3	8236.4	8230.2	8217.9	8110.2	7993.2	7743.9	7056.0
25°	7937.8	8033.2	8179.4	8337.9	8556.5	8661.1	8738.1	8721.1	8584.2	8337.9	7571.6
27.5°	7956.3	8054.8	8205.6	8478.0	8868.9	9113.6	9241.3	9319.8	9239.8	9075.1	8157.9
30°	7916.3	8017.8	8207.1	8554.9	9082.8	9536.8	9764.5	10055.4	10064.6	9926.1	9042.8
32.5°	7734.7	7868.6	8097.9	8564.2	9290.5	9978.4	10329.3	10888.0	11009.5	10906.4	9955.4
35°	7431.5	7553.1	7880.9	8482.6	9416.7	10346.3	10988.0	11859.0	12039.1	12032.9	11029.5
37.5°	7096.0	7219.1	7588.5	8290.2	9498.3	10674.0	11568.2	12822.4	13181.0	13105.6	12043.7
40°	6725.1	6854.4	7280.7	8048.6	9458.3	10966.4	12182.2	13756.5	14201.3	14210.5	13013.2
42.5°	6294.2	6400.4	6828.3	7714.7	9325.9	11181.9	12753.1	14739.9	15207.7	15181.6	13927.4
45°	5881.8	5992.6	6366.6	7197.6	9019.7	11301.9	13313.3	15735.6	16248.1	16165.0	14943.1
47.5°	5383.2	5541.7	5968.0	6763.6	8547.2	11292.7	13802.7	16754.4	17329.9	17262.2	15820.2
50°	4142.8	4236.7	5201.6	6315.8	7907.0	11077.2	14281.3	17754.7	18482.6	18350.3	16755.9
52.5°	3731.9	3816.6	4127.4	5778.7	7325.3	10611.0	14679.9	18899.7	19444.4	19341.3	17711.6
55°	3527.2	3573.4	3762.7	4766.1	6757.5	9853.8	14946.1	19916.9	20483.2	20255.5	18605.7
57.5°	3270.2	3327.2	3547.2	4070.5	6058.8	8691.9	14884.6	20834.1	21357.3	21008.0	19393.6
60°	3073.3	3116.3	3322.6	3664.2	5337.0	7488.5	14255.1	21734.4	21997.5	21652.8	20178.5
62.5°	2907.0	2931.7	3076.3	3401.0	4787.6	6609.7	13027.1	21854.4	22343.8	22094.5	20763.3
65°	2700.8	2707.0	2877.8	3131.7	4279.8	6081.9	11972.9	21238.8	22171.4	22088.3	20974.1
67.5°	2459.2	2471.5	2643.9	2837.8	3668.8	5520.2	10330.9	20908.0	21502.0	21449.7	20557.1
70°	2156.0	2180.7	2339.2	2486.9	3107.1	4846.1	8222.5	19599.9	20304.7	20227.8	19182.8
72.5°	1863.6	1849.8	1997.5	2143.7	2588.5	4045.9	6232.7	17348.4	19045.8	18972.0	17397.7
75°	1531.2	1522.0	1674.4	1812.9	2122.2	3268.7	4384.4	12830.1	16734.4	16962.1	15001.5
77.5°	943.4	951.1	1038.8	1131.1	1437.4	2442.3	2797.8	7137.6	11368.1	13481.1	11772.8
80°	683.3	683.3	747.9	803.3	951.1	1488.1	1392.7	2976.3	4155.1	6506.6	7342.3
82.5°	443.2	424.7	464.8	512.5	529.4	644.8	637.1	1492.8	2117.6	2548.5	3057.9
85°	230.8	255.5	153.9	217.0	229.3	213.9	220.1	700.2	940.3	1205.0	1326.6
87.5°	35.4	27.7	36.9	50.8	58.5	49.2	43.1	81.6	126.2	167.7	198.5
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°	5664.8	5664.8	5664.8	5664.8	5664.8	5664.8	5664.8	5664.8	5664.8	5664.8	5664.8
2.5°	5678.7	5671.0	5600.2	5497.1	5412.4	5341.6	5295.5	5264.7	5298.6	5237.0	5229.3
5°	5694.1	5641.7	5487.8	5340.1	5226.2	5073.9	4970.8	4901.5	4929.2	4875.3	4853.8
7.5°	5735.6	5640.2	5427.8	5192.4	4976.9	4813.8	4655.3	4502.9	4479.8	4446.0	4447.5
10°	5772.5	5635.6	5358.6	5050.8	4799.9	4512.2	4321.3	4164.4	4129.0	4088.9	4068.9
12.5°	5831.0	5646.3	5272.4	4900.0	4564.5	4232.1	4025.9	3841.2	3805.8	3727.3	3710.4
15°	5948.0	5684.8	5187.7	4713.8	4299.8	3964.3	3698.1	3536.5	3471.8	3384.1	3382.6
17.5°	6100.3	5797.2	5144.7	4538.3	4075.1	3699.6	3418.0	3254.8	3145.6	3093.3	3079.4
20°	6317.3	5943.4	5143.1	4379.8	3841.2	3416.4	3093.3	2908.6	2816.2	2773.2	2747.0
22.5°	6651.3	6158.8	5170.8	4269.0	3605.7	3142.5	2820.9	2566.9	2414.6	2296.1	2313.0
25°	7066.8	6482.0	5233.9	4167.4	3401.0	2880.9	2477.7	2125.3	1852.9	1734.4	1743.6
27.5°	7594.6	6868.3	5397.0	4064.3	3168.7	2599.3	2029.9	1582.0	1375.8	1237.3	1248.1
30°	8270.2	7348.4	5611.0	3984.3	2953.2	2205.3	1528.2	1166.5	984.9	871.0	860.3
32.5°	9078.2	8044.0	5844.9	3930.4	2717.8	1712.8	1101.9	855.6	678.7	614.0	623.3
35°	10078.5	8825.8	6201.9	3852.0	2314.6	1218.8	786.4	578.6	487.8	475.5	477.1
37.5°	10991.1	9626.0	6555.9	3719.6	1826.7	866.4	534.0	440.1	420.1	415.5	421.7
40°	11885.2	10355.5	6876.0	3527.2	1255.8	594.0	392.4	397.0	380.1	367.8	361.6
42.5°	12722.4	11058.8	7126.8	3173.3	858.7	392.4	347.8	361.6	358.6	333.9	323.2
45°	13625.7	11802.1	7265.3	2677.7	540.2	333.9	312.4	337.0	352.4	324.7	312.4
47.5°	14396.7	12526.9	7259.2	2051.4	366.3	315.5	293.9	315.5	333.9	313.9	303.2
50°	15286.2	13127.1	7062.2	1301.9	324.7	292.4	281.6	289.3	313.9	300.1	289.3
52.5°	16274.2	13948.9	6763.6	726.4	307.8	277.0	261.6	270.9	292.4	275.5	281.6
55°	17092.9	14630.6	6061.9	495.5	300.1	258.5	249.3	255.5	264.7	247.8	257.0
57.5°	17823.9	15193.9	5352.4	406.3	289.3	246.2	244.7	232.4	230.8	220.1	210.8
60°	18564.2	15638.6	4395.2	367.8	278.5	247.8	221.6	204.7	190.8	180.1	175.4
62.5°	19132.0	15946.4	3476.5	332.4	263.2	232.4	203.1	175.4	152.4	138.5	138.5
65°	19298.2	15809.5	2446.9	301.6	246.2	218.5	181.6	143.1	115.4	106.2	101.6
67.5°	18765.8	15023.1	1703.6	278.5	229.3	203.1	160.0	117.0	92.3	80.0	76.9
70°	17410.0	13707.3	1004.9	246.2	207.8	177.0	146.2	95.4	75.4	63.1	60.0
72.5°	15406.3	11734.4	626.3	209.3	178.5	144.7	109.3	78.5	60.0	49.2	47.7
75°	12725.4	9147.4	409.4	161.6	141.6	113.9	83.1	63.1	52.3	41.6	38.5
77.5°	10204.7	6471.2	366.3	123.1	104.6	81.6	63.1	52.3	43.1	36.9	36.9
80°	5872.6	3693.4	300.1	84.6	64.6	61.6	49.2	43.1	40.0	35.4	33.9
82.5°	2885.5	1774.4	193.9	52.3	36.9	40.0	41.6	38.5	33.9	30.8	30.8
85°	994.2	591.0	78.5	33.9	24.6	24.6	26.2	27.7	26.2	24.6	24.6
87.5°	153.9	112.3	21.5	20.0	15.4	13.9	15.4	16.9	16.9	15.4	15.4
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)