

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: P510248

Luminaire Tested: **VERD-M-CA4-230-760-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-7)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA4-230-760-U-T4-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5700K, 1050mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29050 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

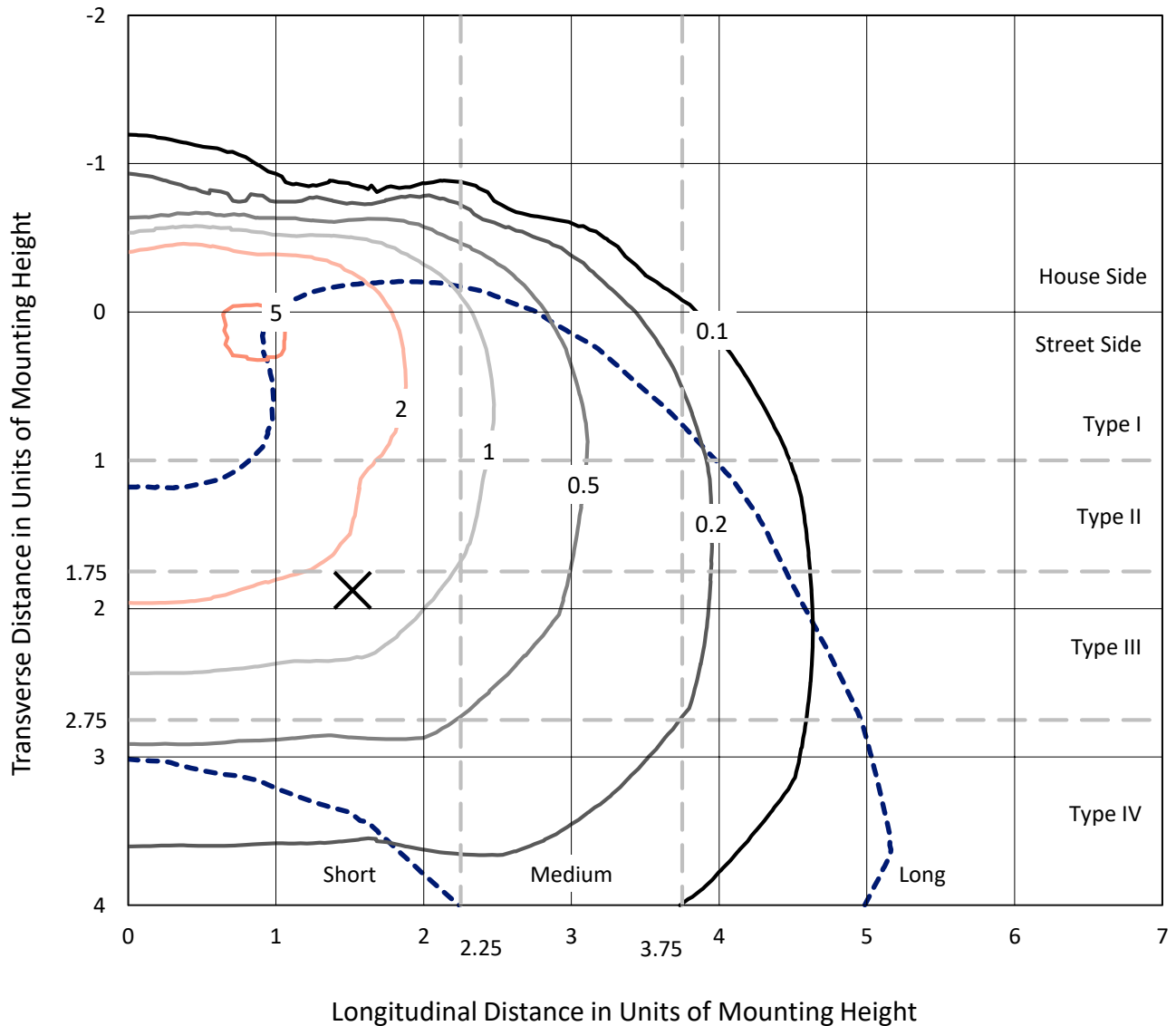
Input Watts (W): 233.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

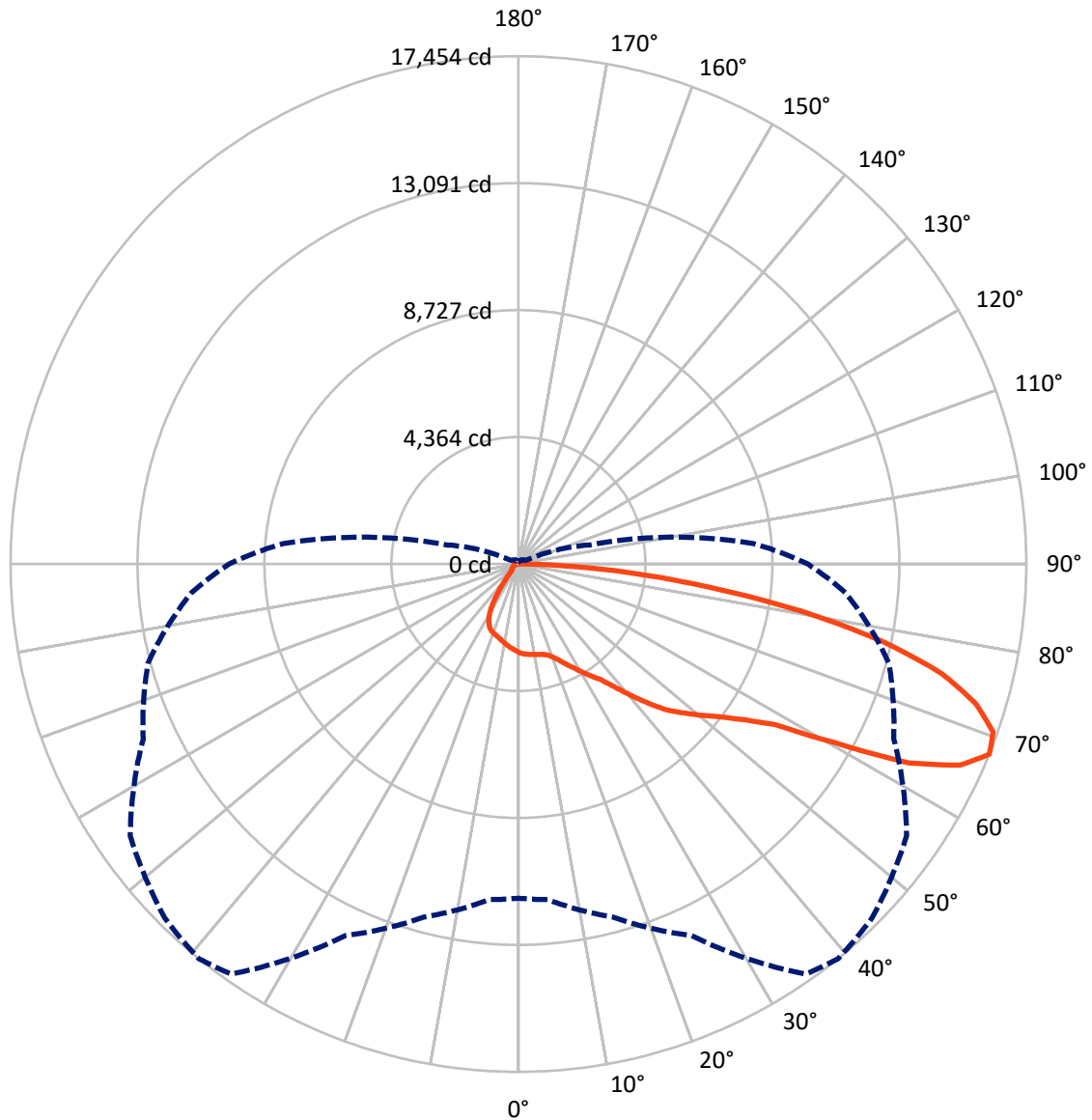
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4664.7	0.0	4664.7
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	24385.3	0.0	24385.3
	% Fixture	83.9	0.0	83.9
Total	Lumens	29050.0	0.0	29050.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.2	1.0
10°-20°	854.7	2.9
20°-30°	1514.3	5.2
30°-40°	2425.4	8.3
40°-50°	3890.8	13.4
50°-60°	5687.2	19.6
60°-70°	7578.4	26.1
70°-80°	5687.0	19.6
80°-90°	1125.2	3.9
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°	29050.0	100.0
0°-180°	29050.0	100.0

Coefficient of Utilization



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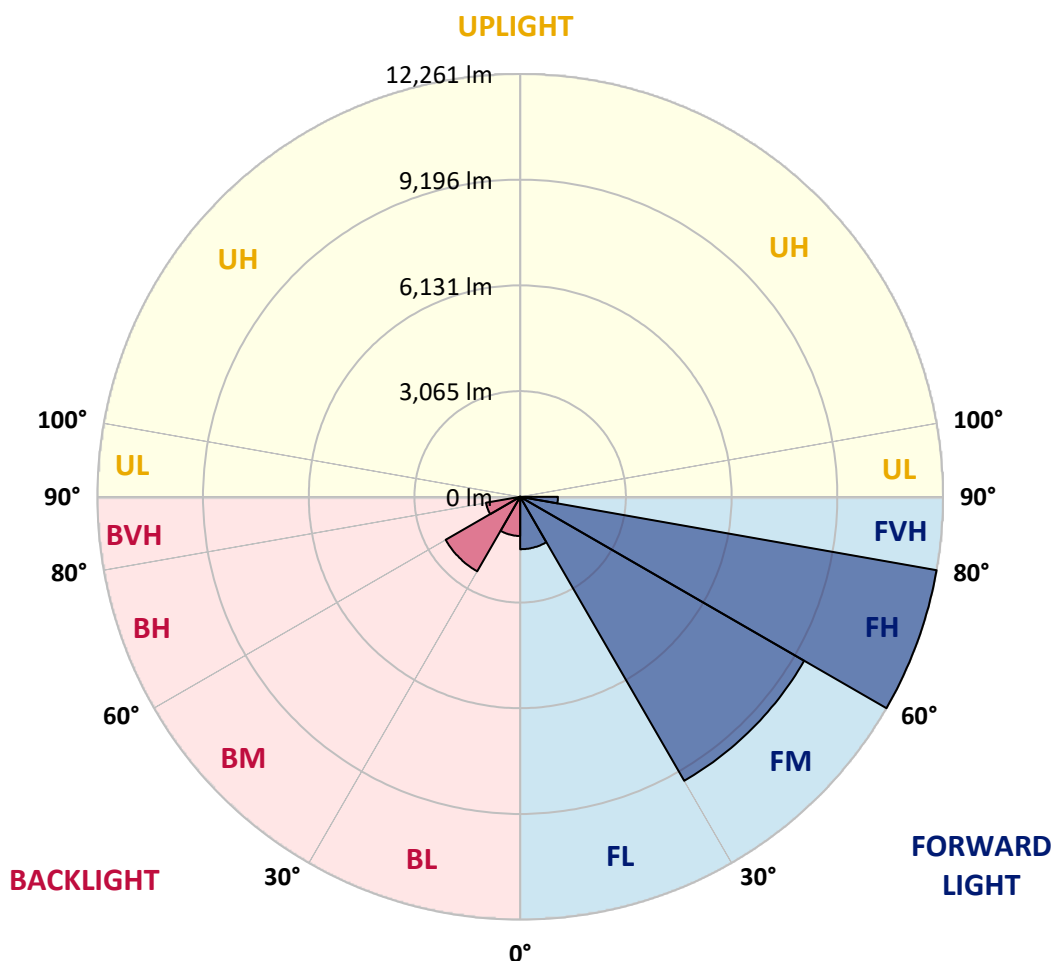
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1520.2	5.2			
FM	(30°-60°)	9508.3	32.7			
FH	(60°-80°)	12261.0	42.2			G5
FVH	(80°-90°)	1095.7	3.8			G5
BL	(0°-30°)	1135.9	3.9	B3/2500		
BM	(30°-60°)	2495.0	8.6	B2/2500		
BH	(60°-80°)	1004.4	3.5	B3/2500		G3/2500
BVH	(80°-90°)	29.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3041.8	3041.8	3041.8	3041.8	3041.8	3041.8	3041.8	3041.8	3041.8	3041.8	3041.8
2.5°	3044.8	3085.6	3085.6	3074.0	3081.3	3087.1	3043.3	3055.0	3050.6	3049.1	3057.9
5°	3068.1	3113.4	3110.4	3095.9	3101.7	3113.4	3072.5	3090.0	3084.2	3069.6	3072.5
7.5°	3068.1	3106.1	3114.8	3098.8	3126.5	3141.1	3097.3	3113.4	3120.7	3110.4	3100.2
10°	3056.4	3090.0	3101.7	3098.8	3135.3	3158.6	3116.3	3161.5	3167.4	3167.4	3151.3
12.5°	3052.1	3090.0	3106.1	3119.2	3161.5	3186.3	3161.5	3205.3	3234.5	3233.1	3222.8
15°	3055.0	3097.3	3122.1	3144.0	3189.3	3219.9	3209.7	3276.8	3311.9	3322.1	3322.1
17.5°	3128.0	3179.0	3190.7	3214.1	3244.7	3291.4	3278.3	3364.4	3419.9	3437.4	3462.2
20°	3332.3	3371.7	3386.3	3374.6	3387.8	3417.0	3390.7	3473.9	3557.1	3603.8	3644.7
22.5°	3593.6	3622.8	3609.6	3598.0	3590.7	3598.0	3565.8	3621.3	3714.7	3781.9	3851.9
25°	3792.1	3856.3	3846.1	3814.0	3803.8	3812.5	3771.7	3840.3	3926.4	3996.4	4101.5
27.5°	4032.9	4072.3	4044.6	4032.9	4040.2	4038.8	4014.0	4079.6	4158.5	4246.0	4400.7
30°	4294.2	4327.8	4300.0	4288.4	4301.5	4310.3	4282.5	4397.8	4481.0	4575.9	4775.9
32.5°	4723.3	4803.6	4727.7	4575.9	4578.8	4592.0	4594.9	4749.6	4901.4	4975.8	5240.0
35°	5334.9	5399.1	5298.4	5114.5	4885.3	4876.6	4899.9	5130.6	5435.6	5774.3	6083.7
37.5°	5905.6	5999.0	5908.5	5694.0	5415.2	5348.0	5226.9	5501.3	5981.5	6709.9	7095.2
40°	6590.2	6660.2	6480.7	6293.9	6015.1	5920.2	5726.1	5901.2	6559.5	7686.4	7952.0
42.5°	7140.5	7182.8	7033.9	6838.3	6596.0	6524.5	6324.5	6340.6	7176.9	8541.7	8712.5
45°	7649.9	7695.1	7572.5	7406.1	7252.8	7166.7	7020.8	7099.6	7900.9	9443.7	9340.1
47.5°	8036.7	8081.9	7984.1	7865.9	7706.8	7648.4	7651.3	7934.5	8786.9	10164.8	9903.5
50°	8670.1	8652.6	8397.2	8268.7	8144.7	8175.3	8207.4	8610.3	9680.2	10783.7	10424.6
52.5°	9775.1	9688.9	9162.0	8826.3	8673.1	8725.6	8778.1	9313.8	10694.6	11348.5	10824.5
55°	11024.5	10936.9	10488.8	9770.7	9364.9	9449.6	9404.3	10010.1	11547.0	11891.5	11154.4
57.5°	11952.8	12097.3	11926.5	11535.4	10519.5	10408.5	10307.8	10713.6	12236.0	12434.5	11471.1
60°	12760.0	12961.4	13266.5	13159.9	12727.9	12438.9	11514.9	11535.4	12898.6	12811.1	11596.7
62.5°	13548.2	13666.4	14189.0	14304.3	14839.9	15047.2	14108.7	12598.0	13539.4	13072.3	11681.3
65°	12760.0	12911.8	13821.1	14660.4	16391.5	16668.8	16339.0	14521.7	14010.9	13227.1	11583.5
67.5°	11485.7	11577.7	12560.0	14086.8	17203.1	17454.1	17197.2	16287.9	14231.3	13180.4	11279.9
70°	9820.3	9964.8	10929.6	12976.0	17173.9	17308.2	17084.8	16501.0	14148.1	12911.8	10513.6
72.5°	8121.3	8203.1	9020.4	11062.4	16334.6	16447.0	16328.8	16174.0	13867.8	12163.0	9040.9
75°	6104.1	6121.6	6959.5	8735.8	14442.9	15029.7	15174.2	15610.6	12795.0	10426.1	6686.5
77.5°	4092.8	4266.5	5070.7	6676.3	11856.5	12795.0	13479.6	13797.8	10690.2	7781.2	3555.6
80°	2196.7	2240.5	3107.5	4737.9	9010.2	9907.9	10557.4	10563.3	7476.2	3854.9	794.0
82.5°	1017.4	975.0	1564.7	2998.1	6241.3	6641.3	7076.2	5927.5	2993.7	658.3	202.9
85°	451.0	475.8	707.9	1461.1	3463.7	3865.1	3809.6	2624.4	525.5	178.1	124.1
87.5°	167.9	176.6	274.4	589.7	1236.3	1348.7	1212.9	505.0	68.6	62.8	38.0
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°	3041.8	3041.8	3041.8	3041.8	3041.8	3041.8	3041.8	3041.8	3041.8	3041.8	3041.8
2.5°	3047.7	3047.7	3044.8	3005.4	2996.6	2977.6	2961.6	2973.2	2960.1	2968.9	2960.1
5°	3060.8	3053.5	3036.0	2989.3	2967.4	2925.1	2893.0	2900.3	2882.7	2882.7	2881.3
7.5°	3091.5	3076.9	3046.2	2971.8	2930.9	2869.6	2820.0	2803.9	2786.4	2766.0	2763.1
10°	3141.1	3120.7	3079.8	2977.6	2898.8	2817.1	2730.9	2697.4	2653.6	2621.5	2615.6
12.5°	3209.7	3179.0	3123.6	2999.5	2895.9	2766.0	2650.7	2585.0	2532.4	2485.7	2475.5
15°	3309.0	3278.3	3212.6	3043.3	2897.3	2717.8	2566.0	2456.5	2366.0	2322.3	2323.7
17.5°	3453.5	3431.6	3330.8	3135.3	2925.1	2693.0	2495.9	2322.3	2182.1	2109.1	2098.9
20°	3638.8	3624.2	3501.6	3256.4	2989.3	2697.4	2420.0	2179.2	1973.4	1814.3	1779.3
22.5°	3854.9	3833.0	3682.6	3361.5	3038.9	2685.7	2336.8	2021.6	1712.1	1504.9	1464.0
25°	4095.7	4084.0	3849.0	3453.5	3044.8	2636.1	2217.2	1817.2	1429.0	1207.1	1172.1
27.5°	4403.7	4335.1	3999.4	3503.1	3031.6	2538.3	2046.4	1537.0	1135.6	982.3	944.4
30°	4740.8	4602.2	4145.3	3541.0	2967.4	2382.1	1802.6	1212.9	845.1	709.4	690.4
32.5°	5114.5	4907.2	4282.5	3538.1	2853.6	2141.3	1485.9	842.2	570.7	515.2	496.3
35°	5790.3	5438.5	4447.5	3489.9	2662.3	1855.2	1049.5	548.8	423.3	389.7	385.3
37.5°	6728.8	6131.9	4669.3	3398.0	2415.7	1522.4	684.6	375.1	362.0	363.4	362.0
40°	7498.1	6905.5	4977.3	3259.3	2104.8	1087.4	410.2	334.3	341.6	345.9	347.4
42.5°	8251.2	7536.0	5358.3	3085.6	1779.3	706.5	332.8	319.7	313.8	321.1	324.0
45°	8857.0	8086.3	5717.3	2882.7	1398.3	417.5	322.6	296.3	286.1	289.0	293.4
47.5°	9341.6	8524.2	5933.3	2646.3	1021.7	315.3	313.8	275.9	261.3	258.4	256.9
50°	9798.4	8899.3	6072.0	2360.2	651.0	303.6	290.5	252.5	235.0	232.1	232.1
52.5°	10109.3	9144.5	6118.7	2021.6	388.3	296.3	274.4	233.5	210.2	214.6	217.5
55°	10412.9	9392.6	6022.4	1580.8	297.8	277.3	256.9	210.2	191.2	208.7	214.6
57.5°	10557.4	9429.1	5804.9	1099.1	289.0	251.1	232.1	188.3	173.7	183.9	183.9
60°	10674.2	9404.3	5501.3	696.2	281.7	233.5	211.6	170.8	153.3	147.4	143.0
62.5°	10596.8	9305.1	4891.2	453.9	261.3	213.1	192.7	157.6	132.8	116.8	115.3
65°	10431.9	8954.8	3904.5	357.6	242.3	202.9	175.2	141.6	116.8	97.8	96.3
67.5°	9945.8	8102.3	2526.6	296.3	232.1	195.6	162.0	131.4	103.6	84.7	83.2
70°	8781.1	6544.9	775.1	265.7	240.8	188.3	159.1	119.7	92.0	74.4	71.5
72.5°	6943.4	4373.0	287.5	220.4	207.3	181.0	154.7	108.0	78.8	62.8	59.8
75°	4472.3	1429.0	243.8	170.8	176.6	172.2	143.0	99.3	67.1	51.1	49.6
77.5°	1266.9	299.2	221.9	125.5	156.2	166.4	125.5	83.2	59.8	43.8	42.3
80°	265.7	213.1	202.9	89.0	116.8	108.0	84.7	64.2	56.9	38.0	38.0
82.5°	173.7	169.3	173.7	61.3	77.4	78.8	67.1	55.5	49.6	35.0	35.0
85°	122.6	154.7	83.2	43.8	36.5	33.6	39.4	48.2	43.8	29.2	29.2
87.5°	42.3	24.8	17.5	17.5	16.1	16.1	19.0	21.9	23.4	23.4	21.9
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)