

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: P510300

Luminaire Tested: **VERD-M-CA4-250-722-U-T2-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510300  
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-CA4-250-722-U-T2-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 2200K, 1130mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25774 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

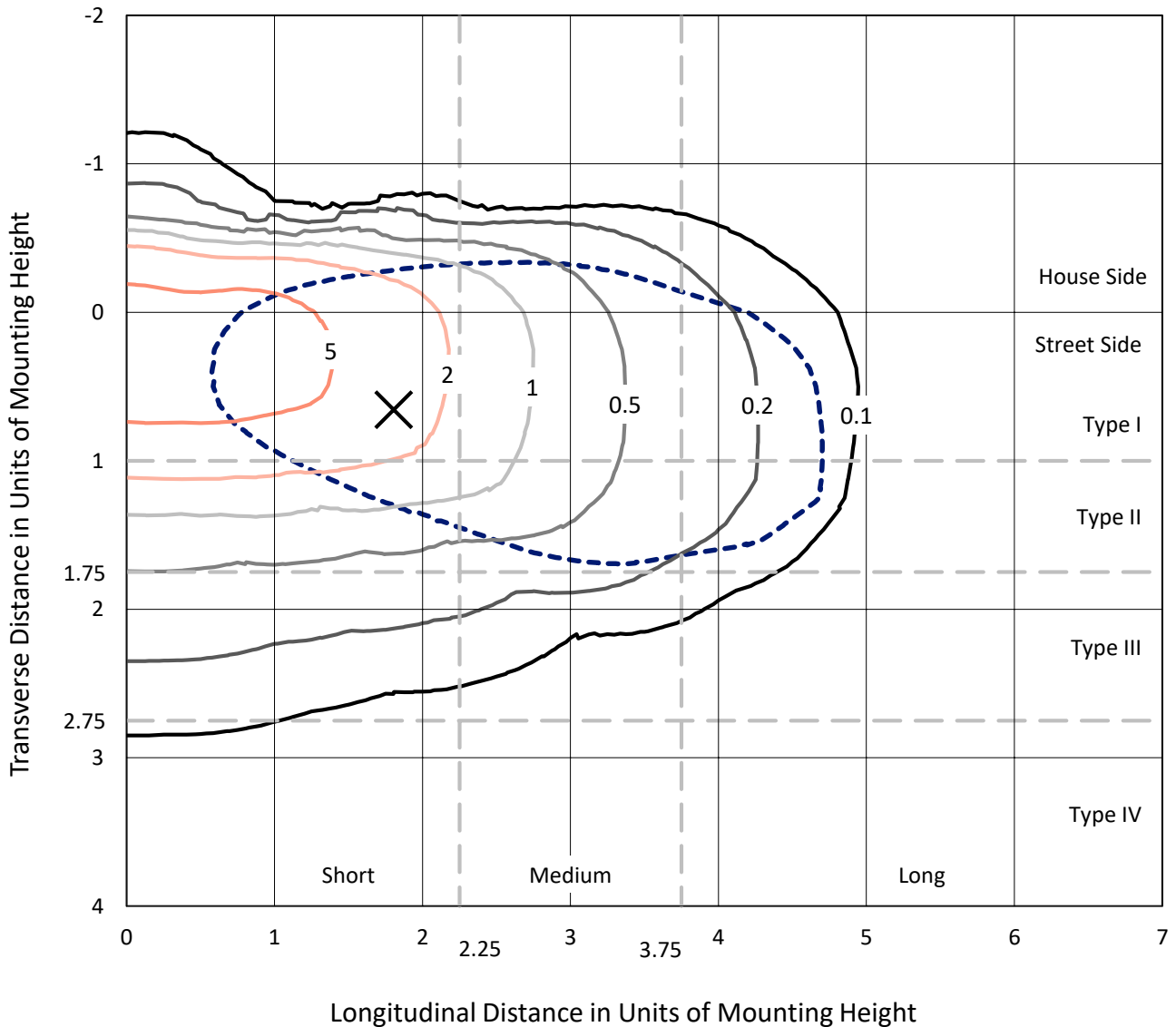
Input Watts (W): 251.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

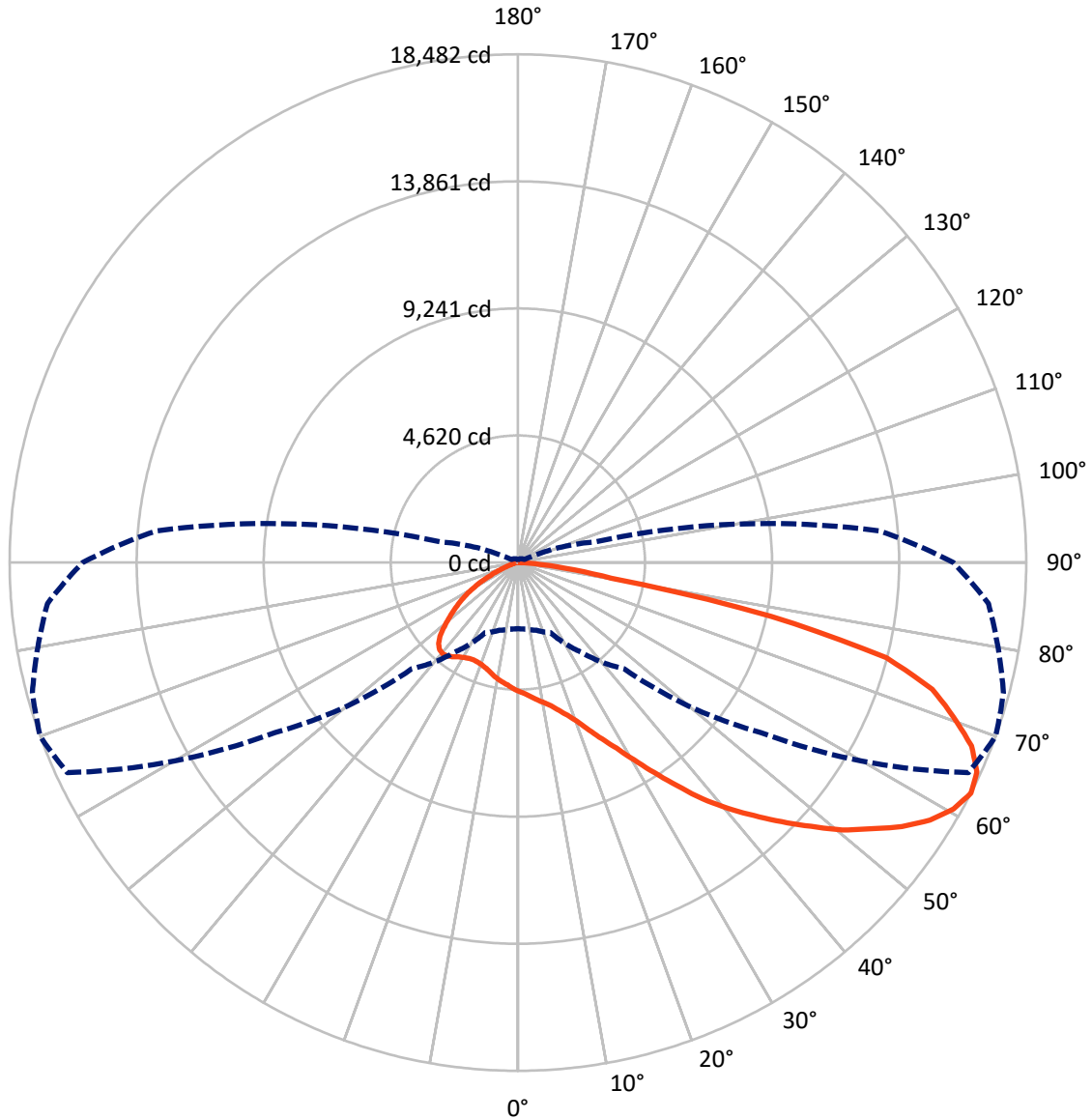
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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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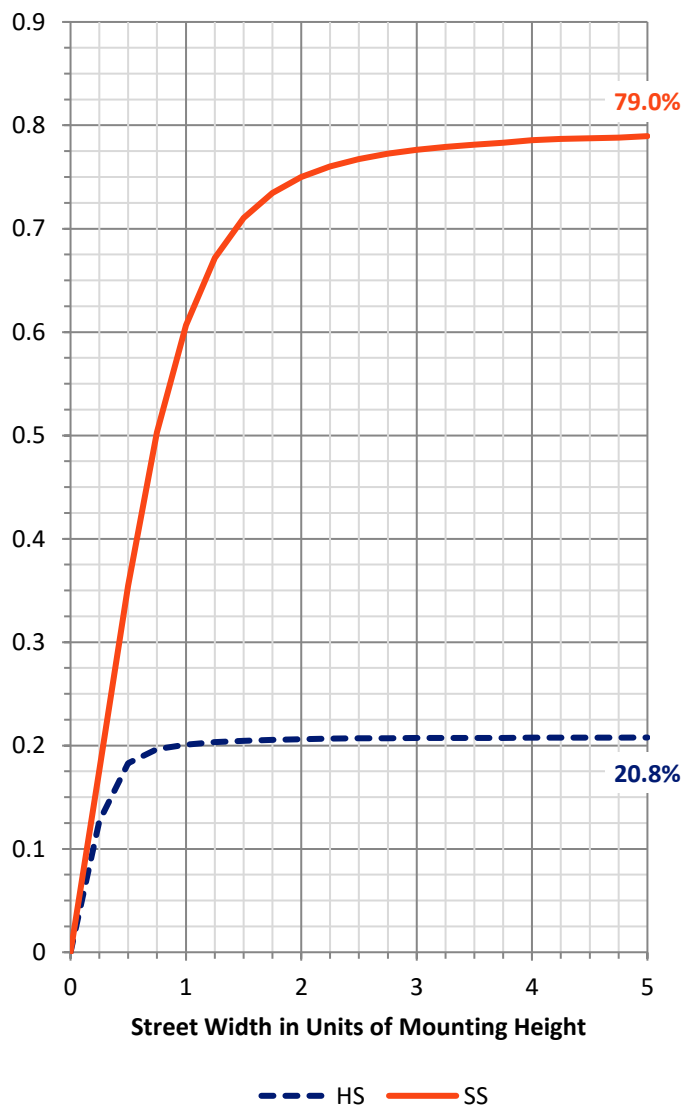
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5420.0	0.0	5420.0
	% Fixture	21.0	0.0	21.0
<b>Street Side</b>	Lumens	20354.0	0.0	20354.0
	% Fixture	79.0	0.0	79.0
<b>Total</b>	Lumens	25774.0	0.0	25774.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	444.9	1.7
10°-20°	1327.6	5.2
20°-30°	2250.7	8.7
30°-40°	3309.8	12.8
40°-50°	4407.6	17.1
50°-60°	5156.0	20.0
60°-70°	5185.7	20.1
70°-80°	3282.6	12.7
80°-90°	409.0	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°	25774.0	100.0
0°-180°	25774.0	100.0



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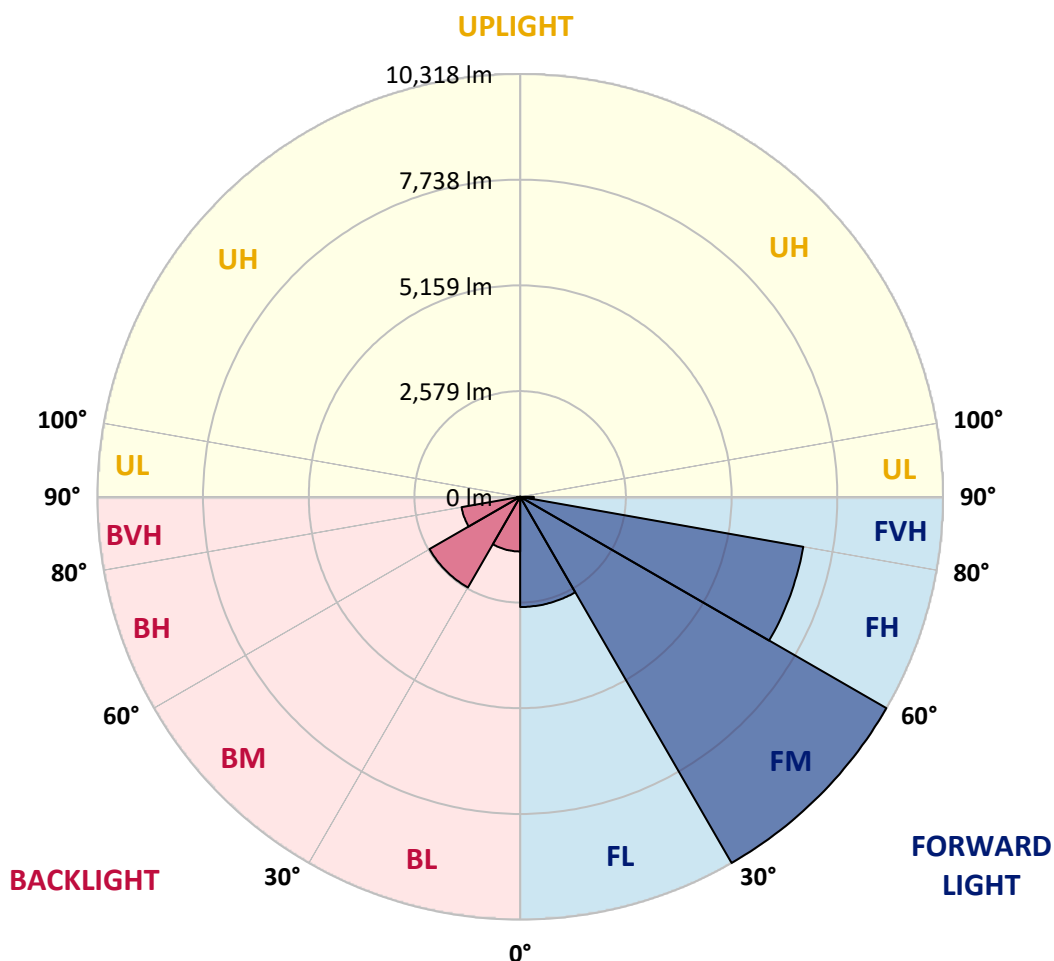
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2688.8	10.4			
FM (30°-60°)	10317.8	40.0			
FH (60°-80°)	7015.7	27.2			G3/7500
FVH (80°-90°)	331.7	1.3			G3/500
BL (0°-30°)	1334.4	5.2	B3/2500		
BM (30°-60°)	2555.6	9.9	B3/5000		
BH (60°-80°)	1452.6	5.6	B3/2500		G3/2500
BVH (80°-90°)	77.3	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	4685.7	4685.7	4685.7	4685.7	4685.7	4685.7	4685.7	4685.7	4685.7	4685.7	4685.7
2.5°	4942.8	4986.1	4953.0	4940.2	4950.4	4899.5	4858.8	4800.2	4772.2	4751.8	4718.8
5°	5193.6	5264.8	5221.6	5194.8	5191.0	5098.1	5043.3	4963.2	4900.8	4846.0	4762.0
7.5°	5458.3	5500.3	5483.8	5453.2	5432.9	5319.6	5222.8	5109.5	5040.8	4968.2	4826.9
10°	5690.0	5740.9	5724.4	5669.6	5650.5	5534.7	5424.0	5269.9	5175.7	5085.4	4890.6
12.5°	5929.3	5986.6	5952.2	5897.5	5880.9	5763.8	5649.3	5462.1	5345.0	5243.2	4973.3
15°	6149.5	6201.7	6177.5	6115.2	6098.6	5999.3	5873.3	5698.9	5571.6	5436.7	5090.4
17.5°	6325.2	6377.4	6346.8	6317.6	6312.5	6214.4	6139.3	5961.1	5840.2	5656.9	5269.9
20°	6453.8	6507.2	6491.9	6505.9	6559.4	6486.8	6441.0	6290.8	6167.3	5968.8	5528.3
22.5°	6555.6	6624.3	6685.4	6713.4	6812.7	6807.6	6797.4	6708.3	6611.6	6405.4	5836.4
25°	6565.8	6644.7	6765.6	6896.7	7077.5	7164.0	7227.7	7213.7	7100.4	6896.7	6262.8
27.5°	6581.0	6662.5	6787.3	7012.6	7335.9	7538.3	7643.9	7708.9	7642.7	7506.5	6747.8
30°	6548.0	6632.0	6788.5	7076.2	7512.8	7888.3	8076.7	8317.3	8325.0	8210.4	7479.7
32.5°	6397.7	6508.5	6698.2	7083.9	7684.7	8253.7	8543.9	9006.0	9106.5	9021.3	8234.6
35°	6147.0	6247.5	6518.7	7016.4	7789.1	8557.9	9088.7	9809.2	9958.1	9953.0	9123.1
37.5°	5869.5	5971.3	6276.8	6857.3	7856.5	8829.0	9568.6	10606.1	10902.6	10840.3	9961.9
40°	5562.7	5669.6	6022.2	6657.4	7823.4	9070.9	10076.5	11378.7	11746.6	11754.2	10763.9
42.5°	5206.3	5294.1	5648.0	6381.2	7714.0	9249.1	10548.8	12192.1	12579.1	12557.5	11520.0
45°	4865.1	4956.8	5266.1	5953.5	7460.6	9348.4	11012.1	13015.7	13439.6	13370.9	12360.1
47.5°	4452.7	4583.8	4936.4	5594.5	7069.9	9340.8	11416.9	13858.4	14334.5	14278.5	13085.7
50°	3426.7	3504.4	4302.5	5224.1	6540.3	9162.5	11812.8	14685.8	15287.9	15178.4	13859.7
52.5°	3086.9	3156.9	3414.0	4779.9	6059.1	8776.9	12142.5	15632.8	16083.5	15998.2	14650.1
55°	2917.6	2955.7	3112.3	3942.3	5589.4	8150.6	12362.7	16474.3	16942.7	16754.3	15389.7
57.5°	2705.0	2752.1	2934.1	3366.9	5011.5	7189.5	12311.8	17232.9	17665.7	17376.8	16041.5
60°	2542.0	2577.7	2748.3	3030.8	4414.5	6194.1	11791.1	17977.6	18195.3	17910.1	16690.7
62.5°	2404.6	2424.9	2544.6	2813.2	3960.1	5467.2	10775.4	18076.9	18481.7	18275.5	17174.4
65°	2234.0	2239.1	2380.4	2590.4	3540.0	5030.6	9903.4	17567.7	18339.1	18270.4	17348.8
67.5°	2034.1	2044.3	2186.9	2347.3	3034.7	4566.0	8545.2	17294.0	17785.4	17742.1	17003.8
70°	1783.4	1803.7	1934.9	2057.1	2570.0	4008.5	6801.3	16212.0	16795.0	16731.4	15867.1
72.5°	1541.5	1530.1	1652.3	1773.2	2141.1	3346.5	5155.4	14349.7	15753.8	15692.7	14390.5
75°	1266.6	1258.9	1384.9	1499.5	1755.4	2703.7	3626.6	10612.4	13841.8	14030.2	12408.5
77.5°	780.3	786.7	859.2	935.6	1188.9	2020.1	2314.2	5903.8	9403.1	11150.9	9737.9
80°	565.2	565.2	618.6	664.5	786.7	1230.9	1152.0	2461.8	3436.9	5381.9	6073.1
82.5°	366.6	351.3	384.4	423.9	437.9	533.4	527.0	1234.7	1751.6	2108.0	2529.3
85°	190.9	211.3	127.3	179.5	189.7	176.9	182.0	579.2	777.8	996.7	1097.3
87.5°	29.3	22.9	30.6	42.0	48.4	40.7	35.6	67.5	104.4	138.7	164.2
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°	4685.7	4685.7	4685.7	4685.7	4685.7	4685.7	4685.7	4685.7	4685.7	4685.7	4685.7
2.5°	4697.1	4690.7	4632.2	4546.9	4476.9	4418.3	4380.2	4354.7	4382.7	4331.8	4325.4
5°	4709.8	4666.6	4539.3	4417.1	4322.9	4196.8	4111.6	4054.3	4077.2	4032.6	4014.8
7.5°	4744.2	4665.3	4489.6	4294.9	4116.7	3981.7	3850.6	3724.6	3705.5	3677.5	3678.8
10°	4774.8	4661.5	4432.3	4177.8	3970.3	3732.2	3574.4	3444.5	3415.3	3382.2	3365.6
12.5°	4823.1	4670.4	4361.1	4053.0	3775.5	3500.6	3330.0	3177.2	3148.0	3083.0	3069.0
15°	4919.9	4702.2	4291.0	3899.0	3556.6	3279.1	3058.9	2925.2	2871.7	2799.2	2797.9
17.5°	5045.9	4795.1	4255.4	3753.9	3370.7	3060.1	2827.2	2692.2	2601.9	2558.6	2547.1
20°	5225.4	4916.1	4254.1	3622.8	3177.2	2825.9	2558.6	2405.8	2329.5	2293.8	2272.2
22.5°	5501.6	5094.3	4277.0	3531.1	2982.5	2599.3	2333.3	2123.2	1997.2	1899.2	1913.2
25°	5845.3	5361.6	4329.2	3447.1	2813.2	2382.9	2049.4	1757.9	1532.6	1434.6	1442.2
27.5°	6281.9	5681.1	4464.2	3361.8	2621.0	2150.0	1679.0	1308.6	1138.0	1023.4	1032.3
30°	6840.7	6078.2	4641.1	3295.6	2442.8	1824.1	1264.0	964.9	814.7	720.5	711.6
32.5°	7509.0	6653.6	4834.6	3251.1	2248.0	1416.8	911.4	707.7	561.4	507.9	515.5
35°	8336.4	7300.3	5129.9	3186.1	1914.5	1008.2	650.5	478.6	403.5	393.3	394.6
37.5°	9091.3	7962.2	5422.7	3076.7	1511.0	716.7	441.7	364.1	347.5	343.7	348.8
40°	9830.8	8565.5	5687.5	2917.6	1038.7	491.4	324.6	328.4	314.4	304.2	299.1
42.5°	10523.3	9147.3	5894.9	2624.8	710.3	324.6	287.7	299.1	296.6	276.2	267.3
45°	11270.5	9762.1	6009.5	2214.9	446.8	276.2	258.4	278.8	291.5	268.6	258.4
47.5°	11908.3	10361.6	6004.4	1696.8	303.0	261.0	243.1	261.0	276.2	259.7	250.8
50°	12644.0	10858.1	5841.5	1076.9	268.6	241.9	232.9	239.3	259.7	248.2	239.3
52.5°	13461.2	11537.8	5594.5	600.8	254.6	229.1	216.4	224.0	241.9	227.9	232.9
55°	14138.4	12101.7	5014.1	409.9	248.2	213.9	206.2	211.3	218.9	204.9	212.6
57.5°	14743.1	12567.6	4427.2	336.1	239.3	203.7	202.4	192.2	190.9	182.0	174.4
60°	15355.4	12935.5	3635.5	304.2	230.4	204.9	183.3	169.3	157.8	148.9	145.1
62.5°	15825.1	13190.1	2875.5	275.0	217.7	192.2	168.0	145.1	126.0	114.6	114.6
65°	15962.5	13076.8	2024.0	249.5	203.7	180.8	150.2	118.4	95.5	87.8	84.0
67.5°	15522.1	12426.3	1409.1	230.4	189.7	168.0	132.4	96.7	76.4	66.2	63.6
70°	14400.7	11338.0	831.2	203.7	171.8	146.4	120.9	78.9	62.4	52.2	49.6
72.5°	12743.3	9706.1	518.1	173.1	147.7	119.7	90.4	64.9	49.6	40.7	39.5
75°	10525.9	7566.3	338.6	133.7	117.1	94.2	68.7	52.2	43.3	34.4	31.8
77.5°	8440.8	5352.7	303.0	101.8	86.6	67.5	52.2	43.3	35.6	30.6	30.6
80°	4857.5	3055.0	248.2	70.0	53.5	50.9	40.7	35.6	33.1	29.3	28.0
82.5°	2386.7	1467.7	160.4	43.3	30.6	33.1	34.4	31.8	28.0	25.5	25.5
85°	822.3	488.8	64.9	28.0	20.4	20.4	21.6	22.9	21.6	20.4	20.4
87.5°	127.3	92.9	17.8	16.5	12.7	11.5	12.7	14.0	14.0	12.7	12.7
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)