

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: P319638

Luminaire Tested: **GAN-SA4B-730-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319638  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA4B-730-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20995 lumens  
Efficiency: N/A  
Efficacy: 122.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

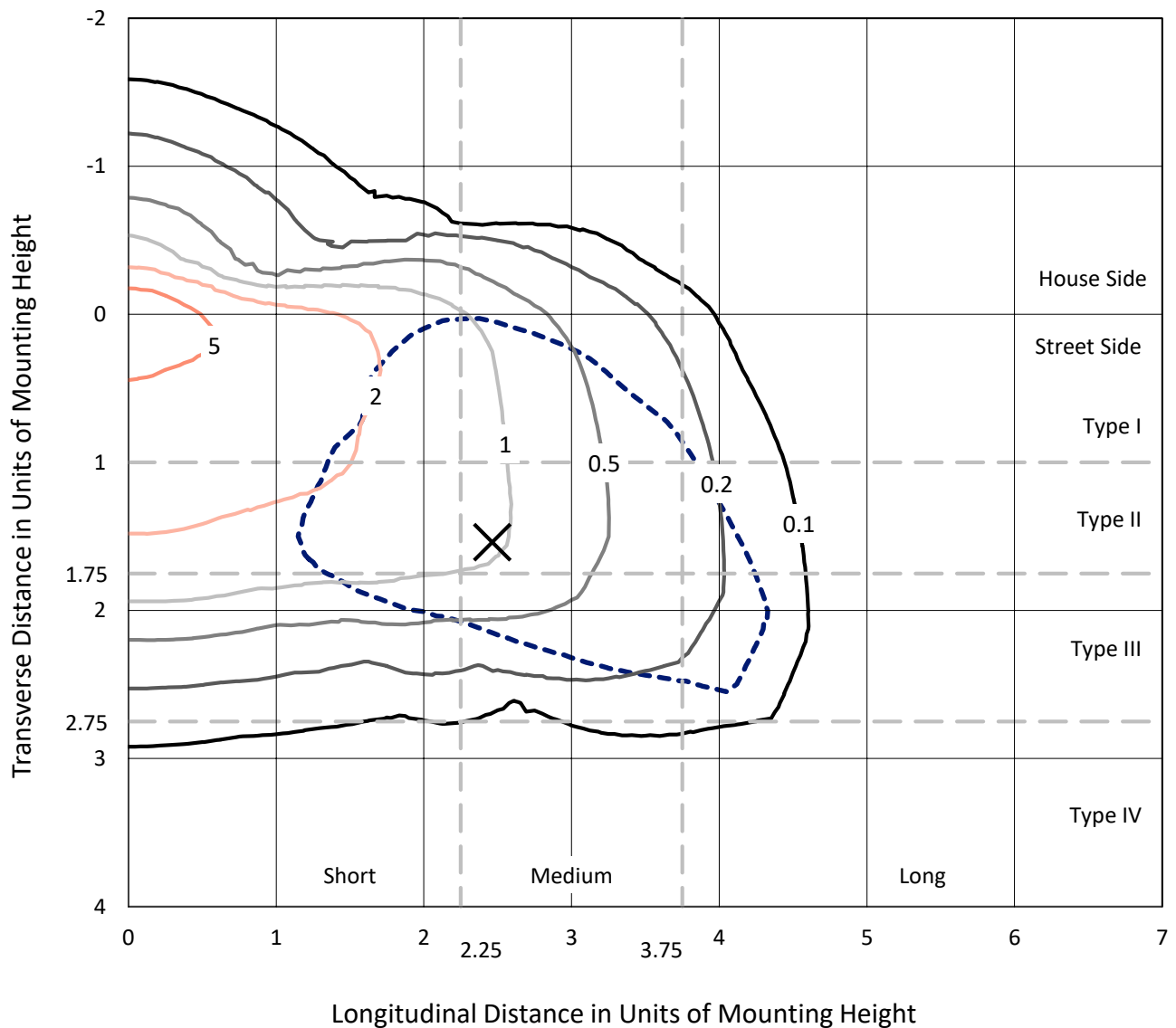
Input Watts (W): 171  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

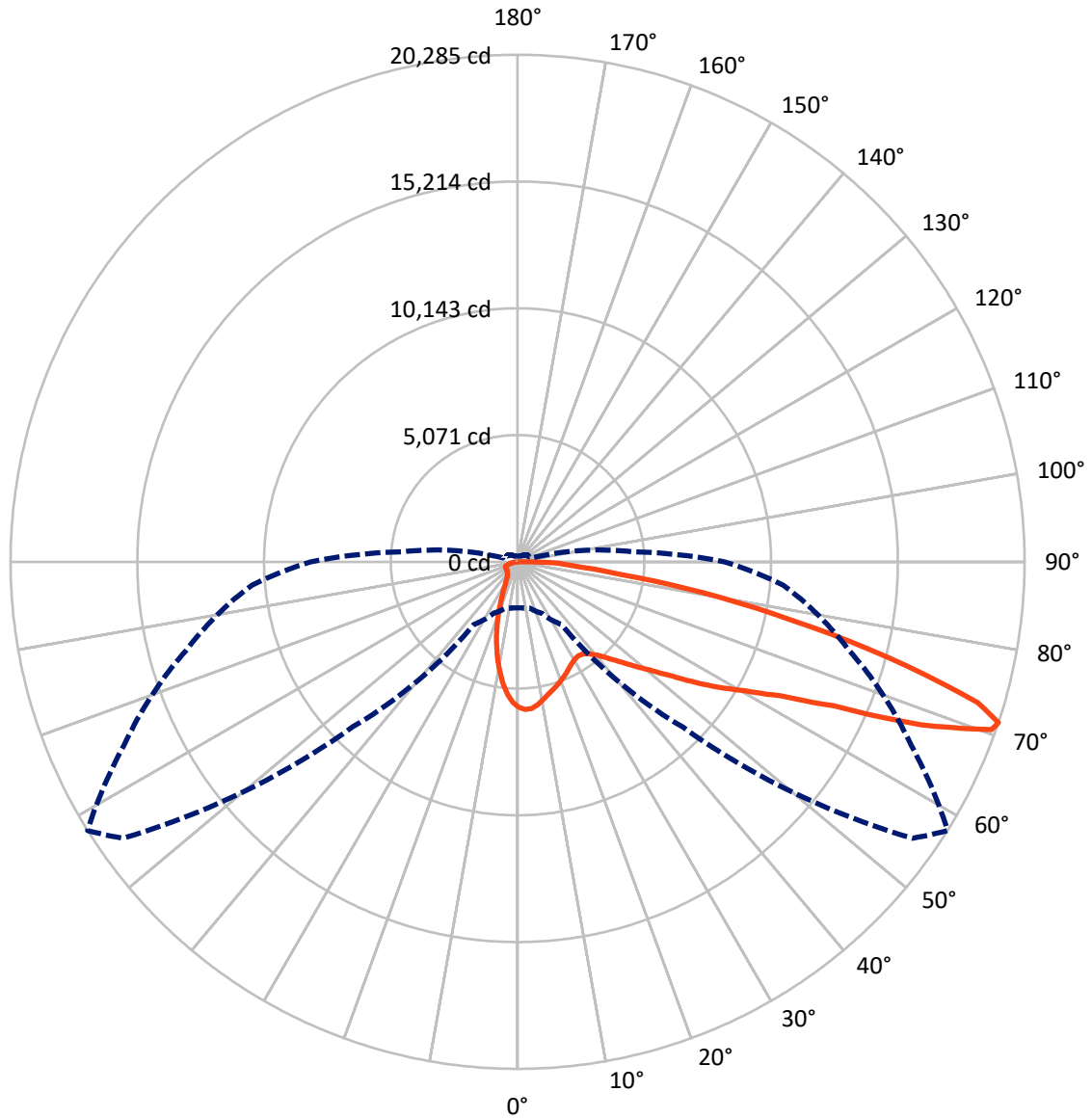
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical



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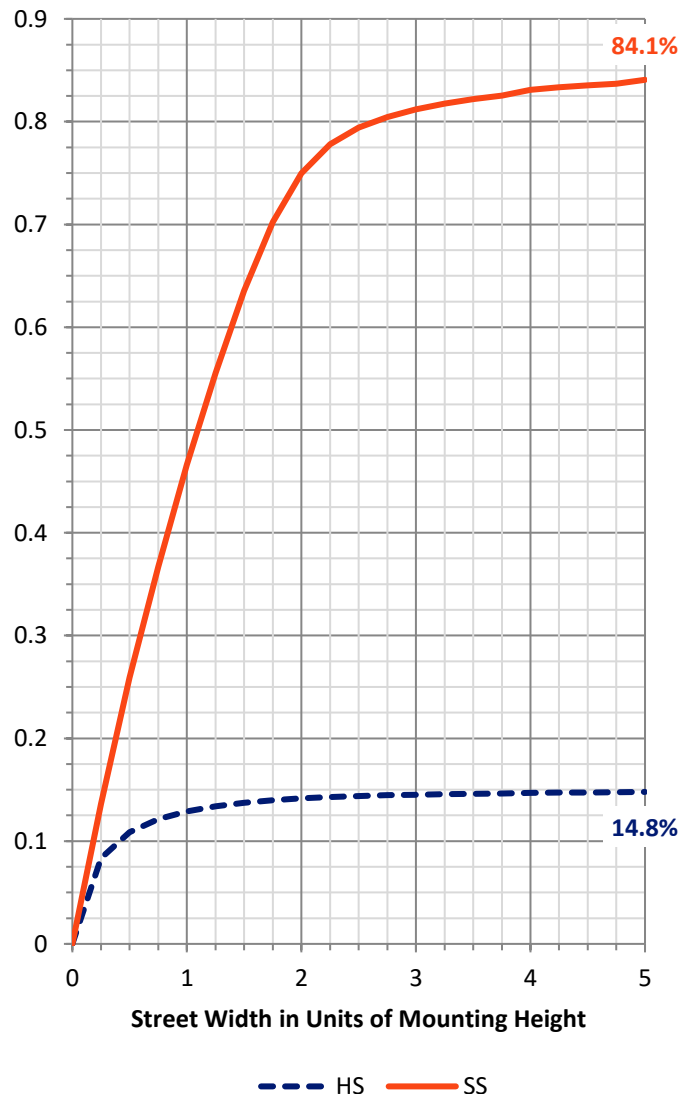
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3138.9	0.0	3138.9
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	17856.1	0.0	17856.1
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	20995.0	0.0	20995.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	501.8	2.4
10°-20°	1115.9	5.3
20°-30°	1418.2	6.8
30°-40°	1806.5	8.6
40°-50°	2561.7	12.2
50°-60°	3964.3	18.9
60°-70°	5396.9	25.7
70°-80°	3600.3	17.1
80°-90°	629.5	3.0
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°	20995.0	100.0
0°-180°	20995.0	100.0

**Coefficient of Utilization**



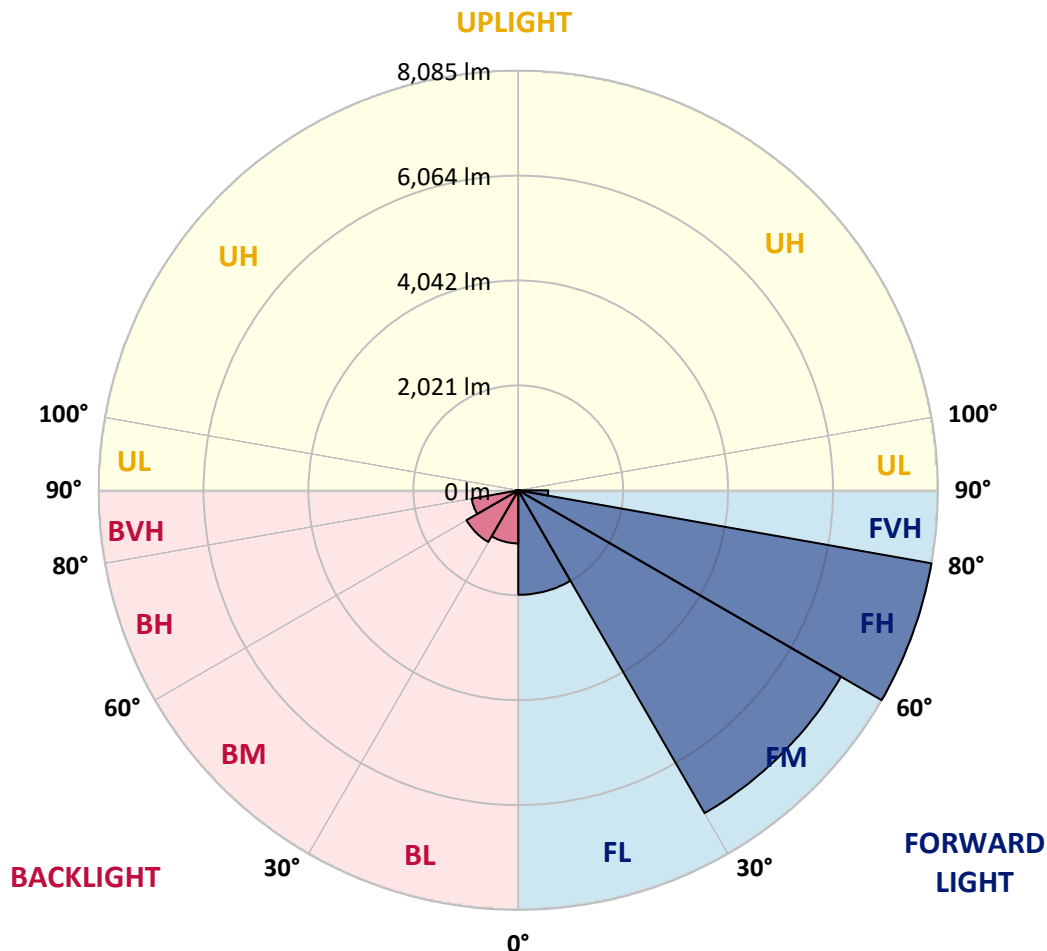
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2012.7	9.6			
FM (30°-60°)	7181.3	34.2			
FH (60°-80°)	8084.9	38.5			G4/12000
FVH (80°-90°)	577.2	2.7			G4/750
BL (0°-30°)	1023.2	4.9	B3/2500		
BM (30°-60°)	1151.1	5.5	B2/2500		
BH (60°-80°)	912.3	4.3	B2/1000		G2/1000
BVH (80°-90°)	52.3	0.2			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5817.0	5817.0	5817.0	5817.0	5817.0	5817.0	5817.0	5817.0	5817.0	5817.0	5817.0
2.5°	5971.3	5963.3	5966.2	5960.4	5946.5	5932.6	5912.1	5915.7	5887.2	5844.8	5792.2
5°	5858.7	5855.8	5877.7	5890.2	5900.4	5892.3	5886.5	5893.8	5852.1	5793.6	5702.2
7.5°	5622.5	5590.3	5618.1	5659.8	5699.3	5729.3	5768.8	5773.9	5747.5	5686.1	5566.2
10°	5286.8	5256.1	5297.0	5362.1	5441.1	5512.8	5592.5	5607.1	5612.2	5556.7	5411.1
12.5°	4938.7	4915.3	4956.2	5047.7	5178.6	5289.0	5416.2	5438.2	5483.5	5446.2	5267.8
15°	4627.1	4618.4	4668.1	4758.0	4908.7	5077.6	5261.2	5301.4	5378.2	5365.8	5155.9
17.5°	4358.0	4355.8	4393.8	4488.2	4654.9	4868.5	5106.9	5174.9	5289.0	5303.6	5063.7
20°	4157.6	4153.2	4179.6	4249.0	4420.9	4663.0	4940.2	5033.8	5198.3	5249.5	4968.7
22.5°	4050.1	4049.4	4050.1	4083.0	4223.4	4448.7	4777.8	4891.9	5109.8	5206.4	4863.4
25°	4031.8	4029.6	4013.6	4009.9	4089.6	4269.5	4616.9	4742.7	5025.7	5176.4	4763.2
27.5°	4079.4	4082.3	4061.1	4026.7	4042.8	4151.8	4477.2	4611.8	4958.4	5170.5	4693.7
30°	4178.1	4176.6	4158.4	4122.5	4091.1	4107.9	4377.8	4512.3	4913.1	5196.1	4646.2
32.5°	4287.1	4295.1	4291.5	4271.7	4224.9	4157.6	4347.8	4479.4	4899.9	5257.5	4625.7
35°	4418.0	4426.8	4453.1	4468.4	4413.6	4305.4	4412.1	4526.2	4938.0	5373.1	4658.6
37.5°	4542.3	4565.0	4638.8	4703.9	4657.1	4536.5	4583.3	4664.4	5055.7	5555.2	4747.1
40°	4685.6	4705.4	4826.1	4964.3	4957.0	4831.9	4859.0	4913.1	5263.4	5816.3	4907.2
42.5°	4826.8	4866.3	5041.1	5237.1	5293.4	5183.0	5226.1	5254.6	5555.9	6162.2	5186.6
45°	5014.7	5057.2	5300.0	5536.2	5667.8	5605.7	5674.4	5685.4	5923.8	6633.2	5592.5
47.5°	5299.2	5347.5	5630.5	5878.5	6079.6	6086.1	6199.5	6195.1	6383.1	7172.2	6103.7
50°	5742.4	5811.9	6043.7	6275.6	6519.8	6655.9	6807.2	6786.0	6933.8	7746.3	6692.4
52.5°	6323.1	6355.3	6527.1	6698.3	7001.8	7306.7	7523.9	7504.9	7558.3	8336.5	7360.9
55°	6925.0	6949.1	7020.1	7113.7	7521.8	8019.1	8478.3	8448.4	8313.1	8949.3	8021.3
57.5°	7466.2	7515.2	7564.2	7602.9	8045.4	8763.6	9454.7	9456.9	9132.1	9610.4	8703.6
60°	7550.3	7593.4	7917.4	8223.1	8941.3	9756.7	10499.7	10477.8	9979.8	10327.9	9464.2
62.5°	6674.1	6771.4	7312.6	8125.8	9804.2	11573.3	11833.0	11805.9	10993.4	11212.1	10349.8
65°	4782.9	4893.3	5546.4	6768.5	9385.9	13575.0	14239.0	13874.8	12375.6	12299.5	11386.8
67.5°	2759.3	2785.6	3068.7	4050.1	7146.6	13679.6	17909.6	17399.9	14522.1	13533.3	11894.4
70°	2040.4	2039.7	2107.0	2492.4	3867.3	11164.5	19655.3	20112.4	16781.9	13939.2	11177.0
71°	1845.2	1847.3	1922.7	2268.6	3062.8	9345.0	19284.5	20285.0	17377.2	13738.8	10657.7
72.5°	1578.2	1585.5	1690.1	2034.6	2576.5	6444.5	17687.3	19249.4	17659.5	13244.4	9845.2
75°	1197.2	1214.0	1358.8	1715.0	2354.9	3268.3	12981.2	15371.1	15687.8	11686.7	7315.5
77.5°	854.2	873.2	1037.0	1442.2	2238.6	2463.1	8693.3	11212.1	11544.8	7489.6	3299.8
80°	539.7	562.4	686.0	1147.5	2103.3	2338.8	5463.1	7536.4	6295.3	2396.6	839.6
82.5°	316.7	334.2	425.6	749.6	1717.9	2252.5	3214.2	4177.4	2450.0	724.0	381.8
85°	183.6	191.6	265.5	477.6	1247.7	2126.0	2361.5	2335.1	1063.4	354.0	180.6
87.5°	85.6	95.1	157.2	249.4	692.6	1540.9	1866.4	1612.6	661.1	166.0	84.8
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°	5817.0	5817.0	5817.0	5817.0	5817.0	5817.0	5817.0	5817.0	5817.0	5817.0	5817.0
2.5°	5766.6	5754.1	5702.2	5656.1	5607.9	5545.0	5475.5	5466.7	5424.3	5432.3	5417.7
5°	5652.5	5621.0	5496.0	5382.6	5248.8	5128.8	4998.7	4938.7	4852.4	4846.5	4824.6
7.5°	5489.4	5430.9	5237.1	5022.1	4807.0	4602.3	4399.7	4266.6	4130.6	4072.8	4067.7
10°	5305.8	5206.4	4921.1	4603.0	4292.9	3993.8	3704.2	3489.9	3296.8	3205.4	3201.8
12.5°	5131.8	4984.8	4593.5	4160.6	3736.4	3348.8	2951.7	2670.1	2428.0	2346.8	2312.5
15°	4984.0	4777.1	4274.6	3721.0	3206.2	2667.9	2215.9	1919.7	1696.0	1618.4	1603.8
17.5°	4840.7	4574.5	3947.7	3277.1	2654.7	2063.1	1610.4	1390.3	1271.1	1239.6	1238.9
20°	4698.1	4366.1	3606.2	2822.9	2121.6	1543.1	1238.1	1139.4	1099.2	1095.5	1089.7
22.5°	4536.5	4145.2	3247.1	2367.3	1655.7	1213.3	1052.4	1012.9	1007.8	1020.9	1020.9
25°	4385.1	3925.8	2882.9	1921.2	1287.9	1012.2	939.8	931.7	945.6	969.0	971.2
27.5°	4243.9	3714.4	2527.5	1524.8	1031.9	891.5	861.5	871.0	895.9	922.9	923.7
30°	4127.6	3514.8	2182.3	1201.6	871.7	801.5	796.4	815.4	842.5	863.7	868.8
32.5°	4037.7	3344.4	1848.8	966.1	767.2	734.3	738.6	754.7	771.6	783.3	791.3
35°	3996.0	3198.1	1540.9	814.7	700.6	682.3	688.2	697.0	704.3	713.0	719.6
37.5°	4003.3	3084.8	1265.9	720.4	656.0	646.5	646.5	646.5	646.5	650.9	651.6
40°	4071.3	3019.7	1042.1	660.4	626.0	615.8	607.7	600.4	594.6	597.5	596.0
42.5°	4245.4	3013.8	878.3	622.4	601.9	585.1	569.0	558.7	551.4	554.4	555.8
45°	4540.8	3087.0	767.9	595.3	579.2	553.6	533.1	522.2	517.1	526.6	528.0
47.5°	4923.3	3246.4	700.6	575.6	558.0	524.4	502.4	492.2	493.6	507.5	511.2
50°	5416.2	3505.3	668.4	563.1	543.4	499.5	476.8	468.1	472.4	492.2	496.6
52.5°	5957.4	3878.3	672.1	559.5	533.9	481.2	457.1	446.8	454.2	472.4	476.1
55°	6582.0	4326.6	732.8	564.6	520.0	469.5	441.0	423.4	429.3	446.1	449.0
57.5°	7276.0	4840.0	854.9	563.1	502.4	458.5	424.2	397.8	402.2	412.5	415.4
60°	7998.6	5460.1	1044.3	567.5	494.4	445.4	401.5	368.6	367.1	375.9	377.4
62.5°	8865.9	6177.6	1260.8	570.4	499.5	428.6	371.5	339.3	335.0	337.1	338.6
65°	9759.6	6696.8	1179.6	558.7	515.6	414.7	345.2	310.8	302.8	301.3	302.0
67.5°	9787.4	6140.3	827.1	535.3	522.2	407.4	325.4	286.7	273.5	268.4	267.7
70°	8777.5	4988.4	644.3	510.5	495.8	395.7	307.2	266.9	247.2	239.1	238.4
71°	8284.5	4592.0	610.7	498.0	476.1	383.9	299.1	258.2	237.7	228.9	227.4
72.5°	7511.5	4116.7	569.7	478.3	438.1	354.0	283.8	245.7	224.5	214.3	212.1
75°	5390.7	2692.0	489.3	426.4	362.7	282.3	248.7	220.9	202.6	190.1	188.7
77.5°	2077.0	1071.4	370.1	354.7	277.9	220.9	204.8	190.9	177.7	165.3	164.5
80°	642.1	479.0	269.9	266.9	201.1	164.5	159.4	155.8	150.7	137.5	134.6
82.5°	343.0	275.0	185.8	172.6	131.6	109.7	115.6	117.0	117.7	103.8	102.4
85°	163.8	145.5	104.6	98.0	76.8	61.4	70.9	76.8	77.5	63.6	59.2
87.5°	78.3	76.1	49.0	37.3	28.5	20.5	24.9	30.7	33.6	24.1	21.2
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)