

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: P453851

Luminaire Tested: **GLAN-SA4D-830-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4D-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24274 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

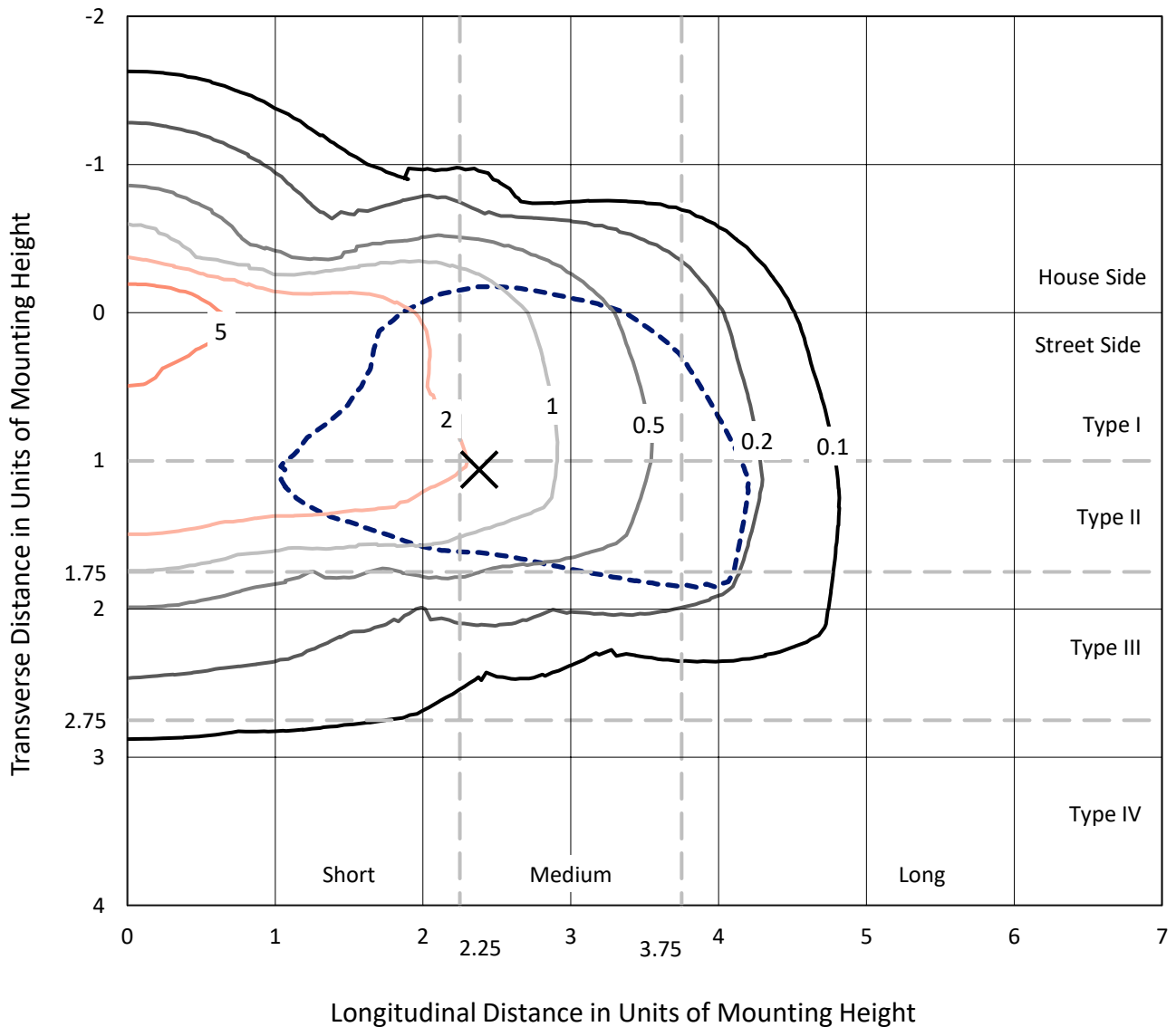
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

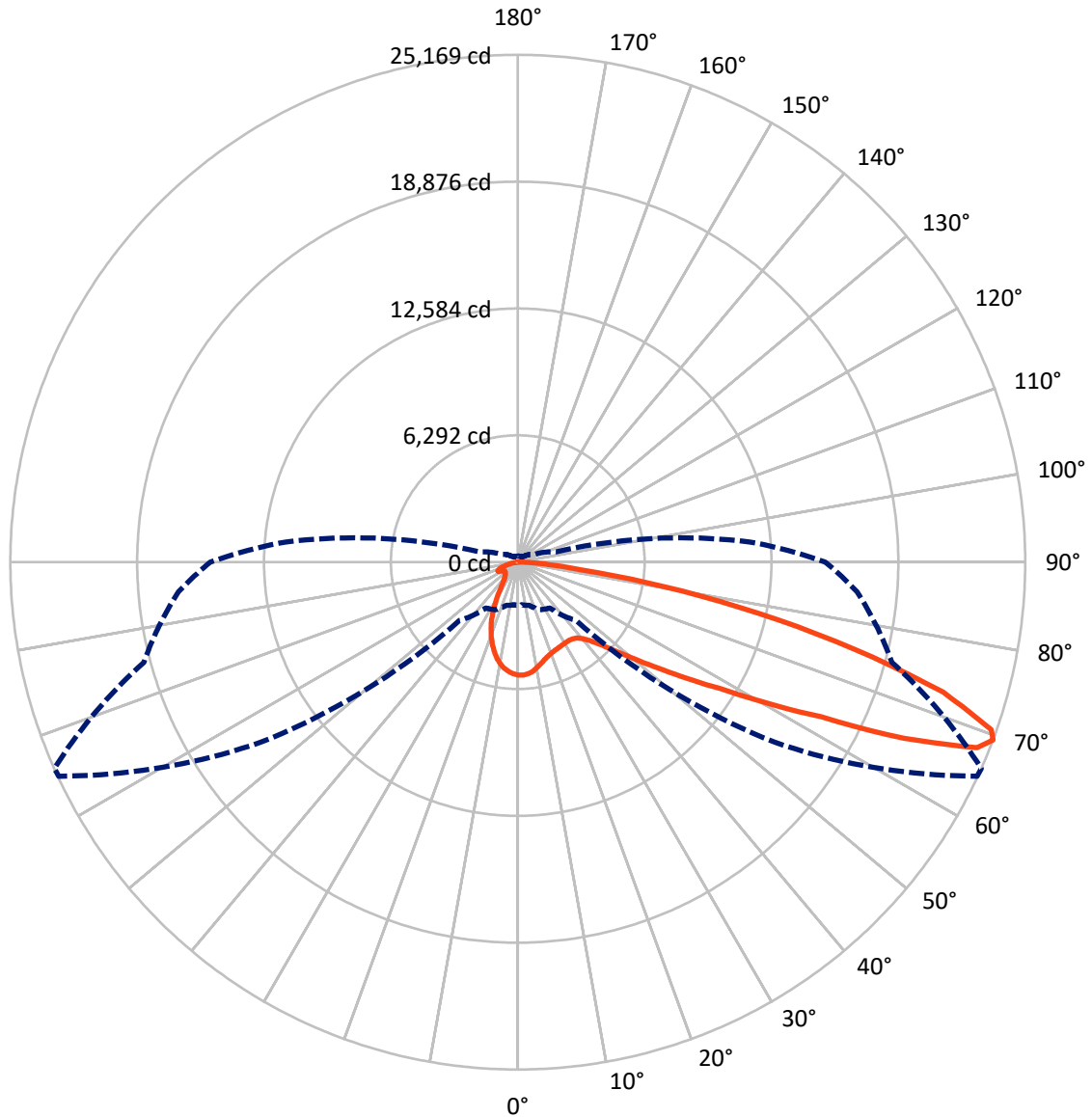
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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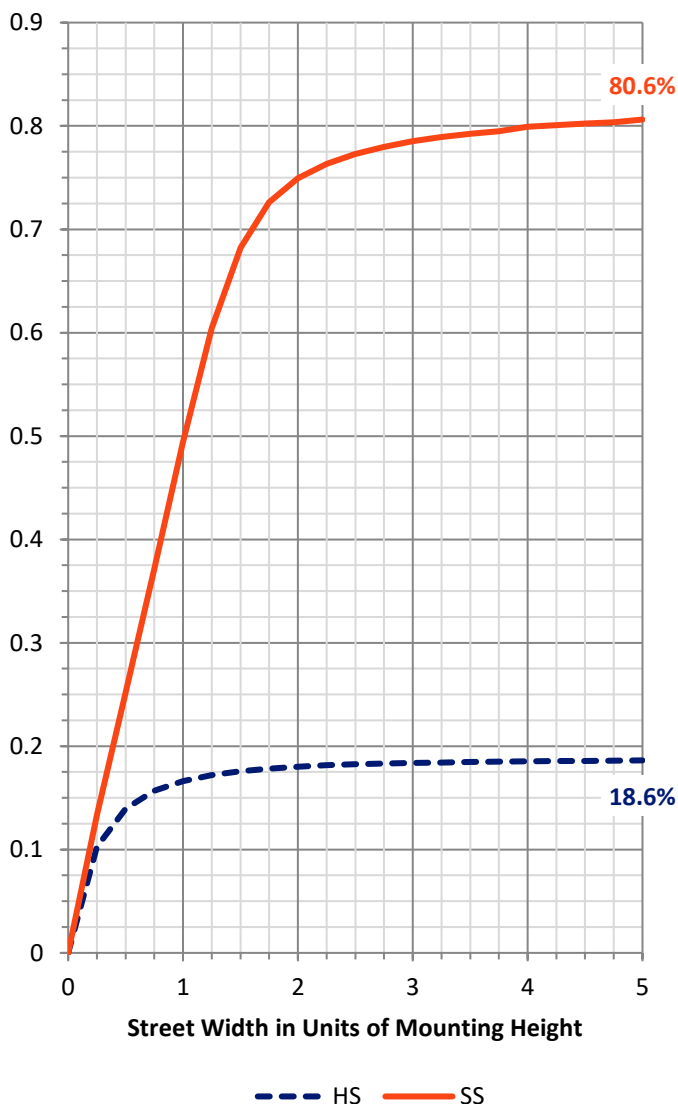
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4565.0	0.0	4565.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	19709.0	0.0	19709.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	24274.0	0.0	24274.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.8	2.0
10°-20°	1154.6	4.8
20°-30°	1571.8	6.5
30°-40°	2112.2	8.7
40°-50°	3153.9	13.0
50°-60°	5016.8	20.7
60°-70°	6170.4	25.4
70°-80°	4014.7	16.5
80°-90°	592.9	2.4
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°	24274.0	100.0
0°-180°	24274.0	100.0

Coefficient of Utilization



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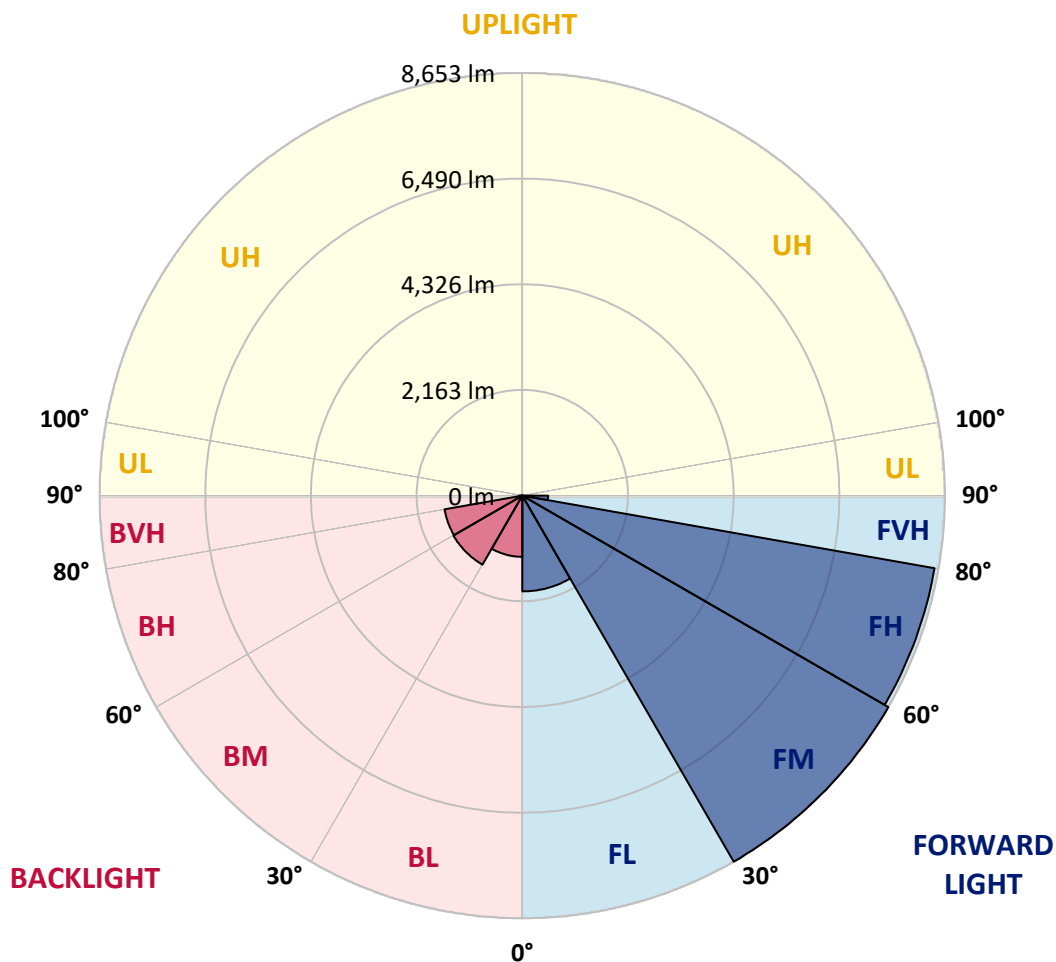
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1960.1	8.1			
FM	(30°-60°)	8653.0	35.6			
FH	(60°-80°)	8568.8	35.3			G4/12000
FVH	(80°-90°)	527.1	2.2			G4/750
BL	(0°-30°)	1253.1	5.2	B3/2500		
BM	(30°-60°)	1629.9	6.7	B2/2500		
BH	(60°-80°)	1616.2	6.7	B3/2500		G3/2500
BVH	(80°-90°)	65.8	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5605.5	5605.5	5605.5	5605.5	5605.5	5605.5	5605.5	5605.5	5605.5	5605.5	5605.5
2.5°	5409.3	5430.8	5455.0	5481.9	5533.0	5561.2	5581.3	5604.2	5606.9	5619.0	5609.6
5°	5010.0	5035.6	5071.9	5123.0	5199.6	5319.2	5442.9	5543.7	5555.8	5612.3	5628.4
7.5°	4676.7	4691.4	4721.0	4803.0	4911.9	5045.0	5225.1	5429.4	5459.0	5593.4	5640.5
10°	4405.1	4419.9	4454.9	4539.5	4647.1	4813.8	5011.4	5280.2	5304.4	5535.6	5643.2
12.5°	4202.1	4215.6	4253.2	4336.6	4460.2	4616.2	4833.9	5118.9	5153.9	5459.0	5617.6
15°	4047.6	4073.1	4104.0	4172.6	4303.0	4453.5	4664.6	4971.1	4999.3	5378.4	5600.2
17.5°	3981.7	3993.8	4015.3	4078.5	4173.9	4321.8	4534.2	4855.4	4889.1	5321.9	5596.1
20°	3984.4	3996.5	4000.5	4035.5	4104.0	4231.7	4441.4	4764.0	4804.4	5272.2	5602.9
22.5°	4075.8	4077.1	4062.3	4050.2	4077.1	4183.3	4375.5	4695.5	4742.5	5250.7	5608.2
25°	4216.9	4241.1	4219.6	4163.2	4113.4	4164.5	4350.0	4657.8	4702.2	5219.7	5601.5
27.5°	4445.4	4449.5	4432.0	4355.4	4226.3	4188.7	4339.3	4629.6	4667.3	5196.9	5567.9
30°	4751.9	4739.8	4723.7	4639.0	4436.0	4281.5	4362.1	4604.1	4643.1	5163.3	5527.6
32.5°	5062.5	5100.1	5085.3	4985.8	4722.4	4461.6	4436.0	4601.4	4633.6	5137.7	5483.2
35°	5391.8	5409.3	5479.2	5428.1	5157.9	4753.3	4574.5	4643.1	4668.6	5139.1	5452.3
37.5°	5649.9	5697.0	5860.9	5905.3	5651.2	5139.1	4799.0	4761.3	4772.1	5205.0	5464.4
40°	5961.8	6042.4	6253.5	6434.9	6268.3	5640.5	5180.8	4980.5	4993.9	5363.6	5543.7
42.5°	6357.0	6413.4	6697.1	6943.1	6916.2	6303.2	5643.2	5339.4	5346.1	5679.5	5765.5
45°	6819.4	6900.1	7218.6	7588.3	7651.5	7053.3	6311.3	5882.5	5878.4	6170.1	6179.5
47.5°	7410.9	7460.6	7776.5	8179.8	8435.2	7995.6	7121.9	6662.1	6619.1	6885.3	6808.6
50°	7955.3	8033.3	8272.5	8713.5	9349.3	9099.3	8187.9	7673.0	7572.2	7820.9	7691.8
52.5°	8183.8	8265.8	8467.5	9014.6	10133.0	10526.9	9541.5	8878.8	8710.8	8901.7	8854.6
55°	7787.3	7893.5	8081.7	8747.1	10477.1	12173.6	11367.0	10272.8	10150.5	10068.5	10081.9
57.5°	6721.3	6822.1	7076.2	7810.1	10065.8	13368.6	13973.5	12064.7	11802.6	11424.8	11489.3
60°	5116.2	5179.4	5311.1	6124.4	8846.5	13679.1	16933.6	14329.8	14163.1	12775.8	12821.5
62.5°	3633.5	3704.8	3796.2	4202.1	6476.6	12804.0	19251.1	17492.8	16897.3	14175.2	14130.8
65°	2950.6	2902.2	3012.5	3202.0	3800.2	9923.3	19772.6	21883.1	21063.1	16018.1	15402.5
67.5°	2426.4	2375.3	2484.2	2821.6	2890.1	5760.1	17893.4	24732.9	24568.9	18022.4	16694.3
69°	2148.1	2121.2	2216.7	2601.1	2774.5	4090.6	15588.0	25129.5	25168.5	19204.0	16893.2
70°	1935.7	1946.5	2039.2	2489.6	2722.1	3372.7	13322.9	24582.4	24913.1	19794.1	16678.2
72.5°	1424.9	1447.8	1576.8	2062.1	2672.4	2861.9	7928.4	21471.8	22056.5	19829.1	15257.3
75°	996.1	985.3	1099.6	1552.6	2524.5	2836.4	4656.5	16605.6	17268.3	17139.2	12820.2
77.5°	652.0	669.4	760.8	1096.9	2123.9	2814.9	3035.3	11781.0	12211.2	11462.5	7582.9
80°	459.7	458.4	509.5	748.7	1575.5	2704.6	2485.5	7425.7	7316.8	4504.6	2248.9
82.5°	263.5	282.3	341.4	526.9	1053.9	2380.7	2286.6	3551.5	3242.3	1283.8	759.5
85°	146.5	153.2	203.0	318.6	615.7	1793.2	1996.2	1615.8	1524.4	536.4	326.7
87.5°	47.0	51.1	84.7	161.3	279.6	846.9	1130.5	746.1	688.3	193.6	131.7
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°	5605.5	5605.5	5605.5	5605.5	5605.5	5605.5	5605.5	5605.5	5605.5	5605.5	5605.5
2.5°	5613.6	5629.7	5586.7	5545.0	5507.4	5455.0	5407.9	5369.0	5342.1	5338.0	5324.6
5°	5632.4	5633.8	5551.8	5441.5	5334.0	5215.7	5093.4	5006.0	4924.0	4878.3	4855.4
7.5°	5645.9	5633.8	5485.9	5307.1	5100.1	4885.0	4669.9	4497.9	4364.8	4312.4	4332.5
10°	5640.5	5602.9	5386.4	5100.1	4799.0	4477.7	4168.5	3926.6	3704.8	3590.5	3593.2
12.5°	5610.9	5549.1	5238.6	4867.5	4425.3	3995.1	3521.9	3195.3	2938.5	2786.6	2739.6
15°	5585.4	5477.8	5065.2	4551.6	4001.8	3387.5	2810.8	2407.6	2192.5	2072.8	2071.5
17.5°	5558.5	5409.3	4875.6	4216.9	3515.2	2724.8	2119.9	1812.1	1711.2	1723.3	1703.2
20°	5530.3	5328.6	4678.0	3844.6	2922.4	2032.5	1587.6	1462.5	1490.8	1545.9	1554.0
22.5°	5498.0	5242.6	4465.6	3434.6	2298.7	1529.8	1287.8	1269.0	1341.6	1427.6	1439.7
25°	5448.3	5135.1	4198.1	3005.8	1773.1	1232.7	1127.8	1141.3	1212.5	1285.1	1293.2
27.5°	5378.4	5002.0	3927.9	2470.7	1332.2	1057.9	1031.0	1048.5	1083.5	1127.8	1138.6
30°	5284.3	4851.4	3617.4	2008.3	1067.3	970.6	959.8	969.2	989.4	1008.2	1013.6
32.5°	5190.2	4706.2	3304.2	1537.8	951.7	912.7	902.0	902.0	902.0	904.7	906.0
35°	5102.8	4569.1	2968.1	1197.7	891.2	867.0	852.3	836.1	833.4	824.0	824.0
37.5°	5054.4	4444.1	2610.5	1002.8	846.9	829.4	809.2	782.4	767.6	768.9	766.2
40°	5063.8	4362.1	2285.2	892.6	810.6	791.8	760.8	729.9	720.5	720.5	717.8
42.5°	5170.0	4335.2	1973.4	834.8	775.6	754.1	715.1	686.9	681.5	680.2	682.9
45°	5414.7	4401.1	1693.8	797.1	746.1	713.8	674.8	649.3	643.9	643.9	642.6
47.5°	5891.9	4614.8	1493.5	772.9	724.6	682.9	642.6	617.0	607.6	604.9	604.9
50°	6633.9	5078.6	1344.3	751.4	697.7	654.7	613.0	583.4	568.6	567.3	565.9
52.5°	7664.9	5801.8	1286.5	735.3	668.1	625.1	579.4	551.1	532.3	528.3	525.6
55°	8870.7	6811.3	1365.8	723.2	637.2	591.5	544.4	514.8	497.4	489.3	488.0
57.5°	10267.4	8023.9	1666.9	707.1	608.9	555.2	509.5	479.9	461.1	451.7	449.0
60°	11521.6	9270.0	2192.5	697.7	584.8	516.2	469.1	442.3	424.8	415.4	414.0
62.5°	12899.5	10458.3	2820.2	723.2	574.0	478.6	431.5	407.3	392.5	383.1	383.1
65°	14371.4	11648.0	3235.6	809.2	590.1	449.0	391.2	371.0	357.6	350.9	349.5
67.5°	15363.5	12059.3	2665.7	898.0	630.5	416.7	352.2	336.1	328.0	321.3	321.3
69°	15255.9	11539.1	1966.6	920.8	642.6	400.6	330.7	318.6	307.8	305.1	302.5
70°	14915.8	10946.3	1648.1	906.0	633.1	385.8	317.2	302.5	293.0	290.4	289.0
72.5°	13285.3	9493.1	1227.3	787.7	539.0	334.7	280.9	267.5	259.4	255.4	255.4
75°	11037.7	7759.0	958.5	626.4	422.1	282.3	240.6	229.9	223.1	220.5	219.1
77.5°	6186.3	4332.5	688.3	490.7	319.9	228.5	201.6	192.2	185.5	182.8	182.8
80°	1723.3	1238.1	404.6	324.0	217.8	173.4	160.0	153.2	143.8	137.1	141.1
82.5°	649.3	536.4	231.2	194.9	138.5	115.6	111.6	106.2	102.2	92.8	92.8
85°	315.9	260.8	147.9	103.5	76.6	60.5	57.8	55.1	52.4	45.7	47.0
87.5°	108.9	115.6	64.5	37.6	22.9	14.8	12.1	6.7	6.7	6.7	6.7
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)