

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: P319999

Luminaire Tested: **GAN-SA5B-740-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319999
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-740-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27140 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

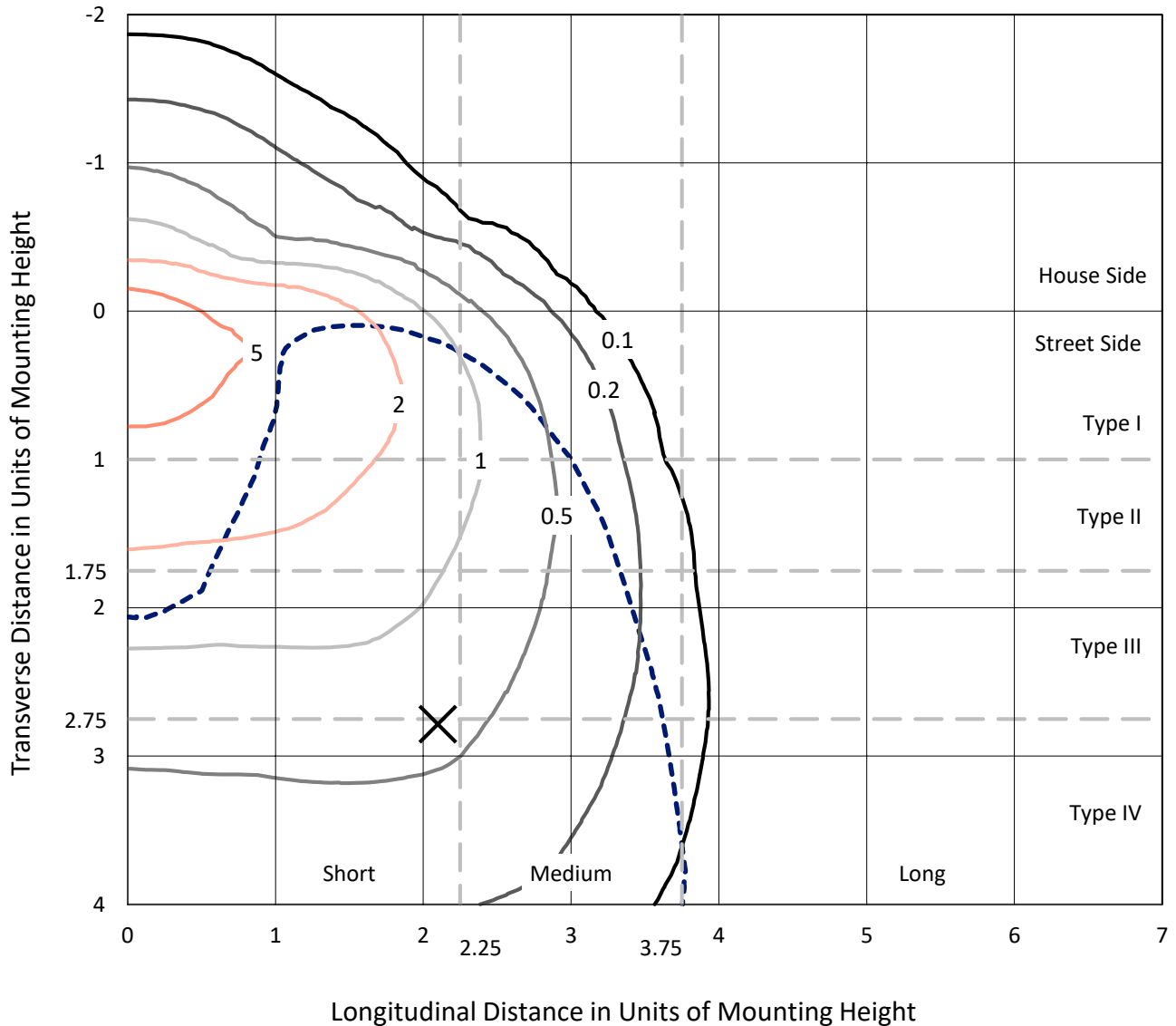
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

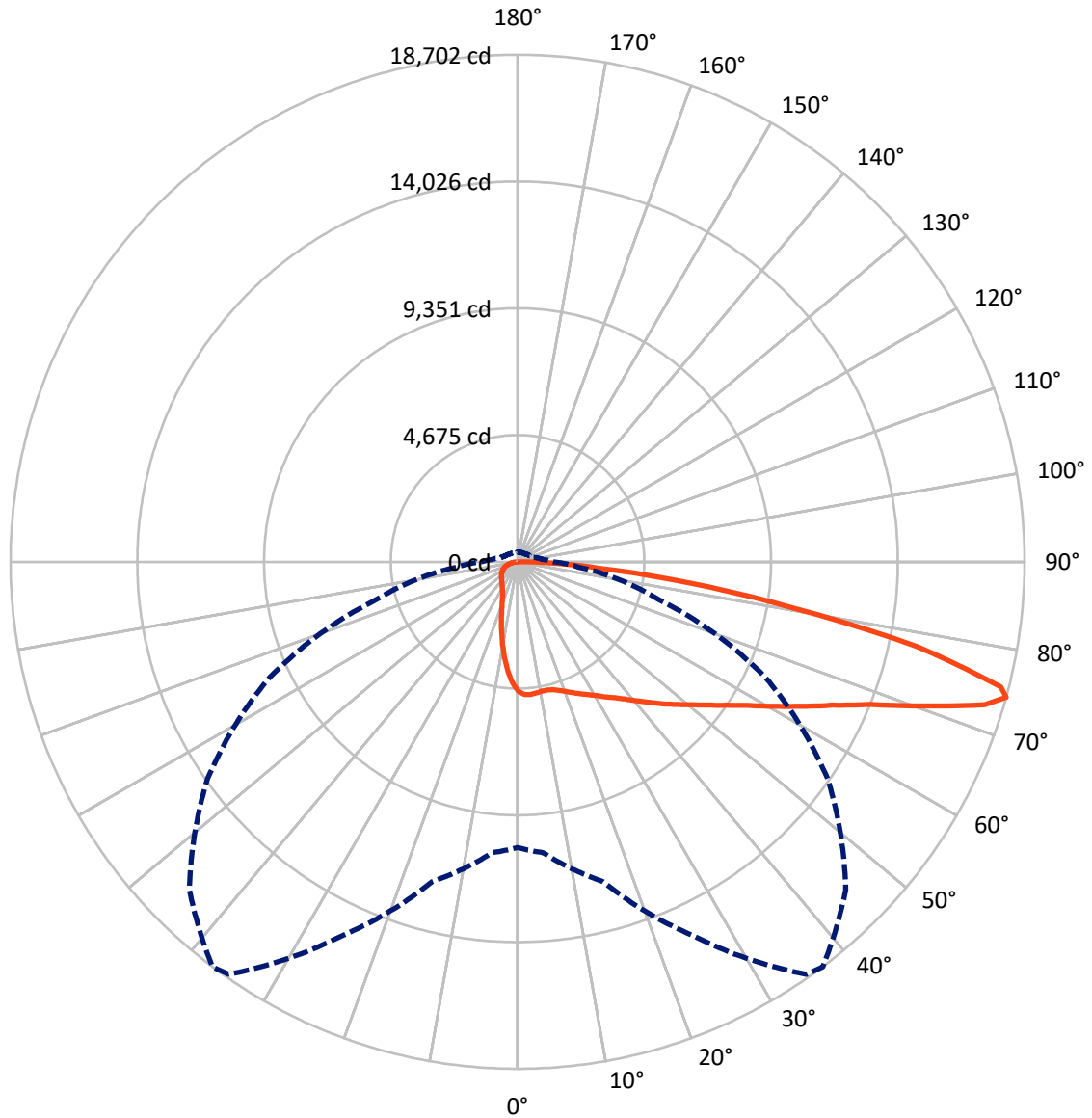
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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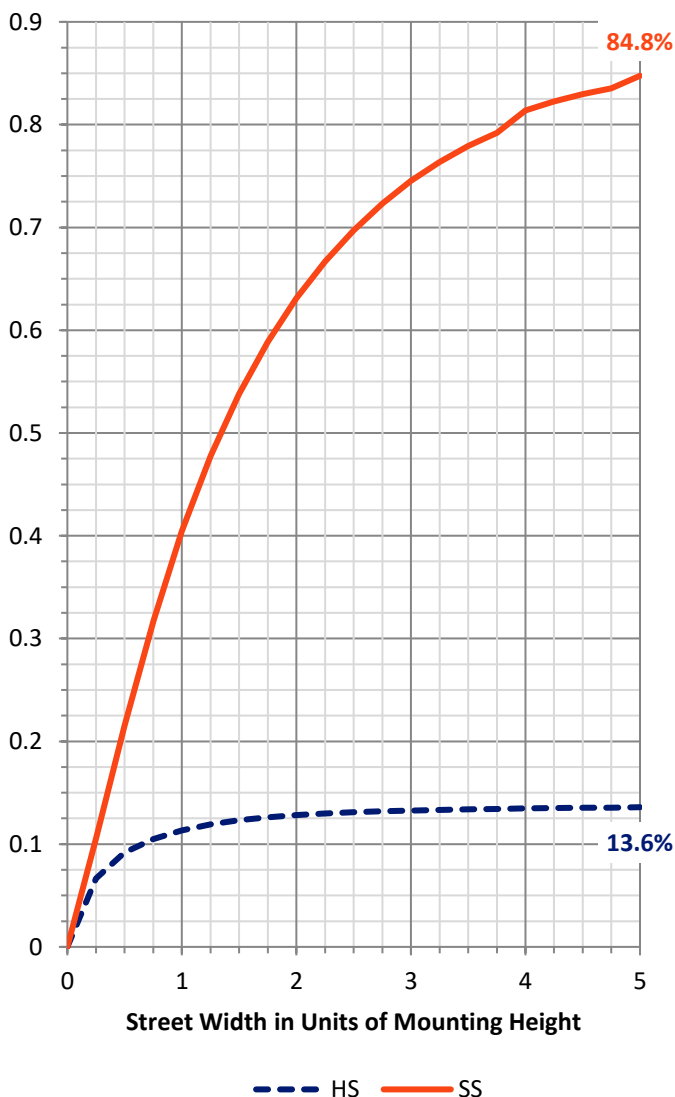
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3734.3	0.0	3734.3
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	23405.7	0.0	23405.7
	% Fixture	86.2	0.0	86.2
Total	Lumens	27140.0	0.0	27140.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.1	1.6
10°-20°	1079.4	4.0
20°-30°	1663.2	6.1
30°-40°	2418.5	8.9
40°-50°	3559.6	13.1
50°-60°	4998.8	18.4
60°-70°	6326.9	23.3
70°-80°	5571.1	20.5
80°-90°	1101.5	4.1
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°	27140.0	100.0
0°-180°	27140.0	100.0

Coefficient of Utilization

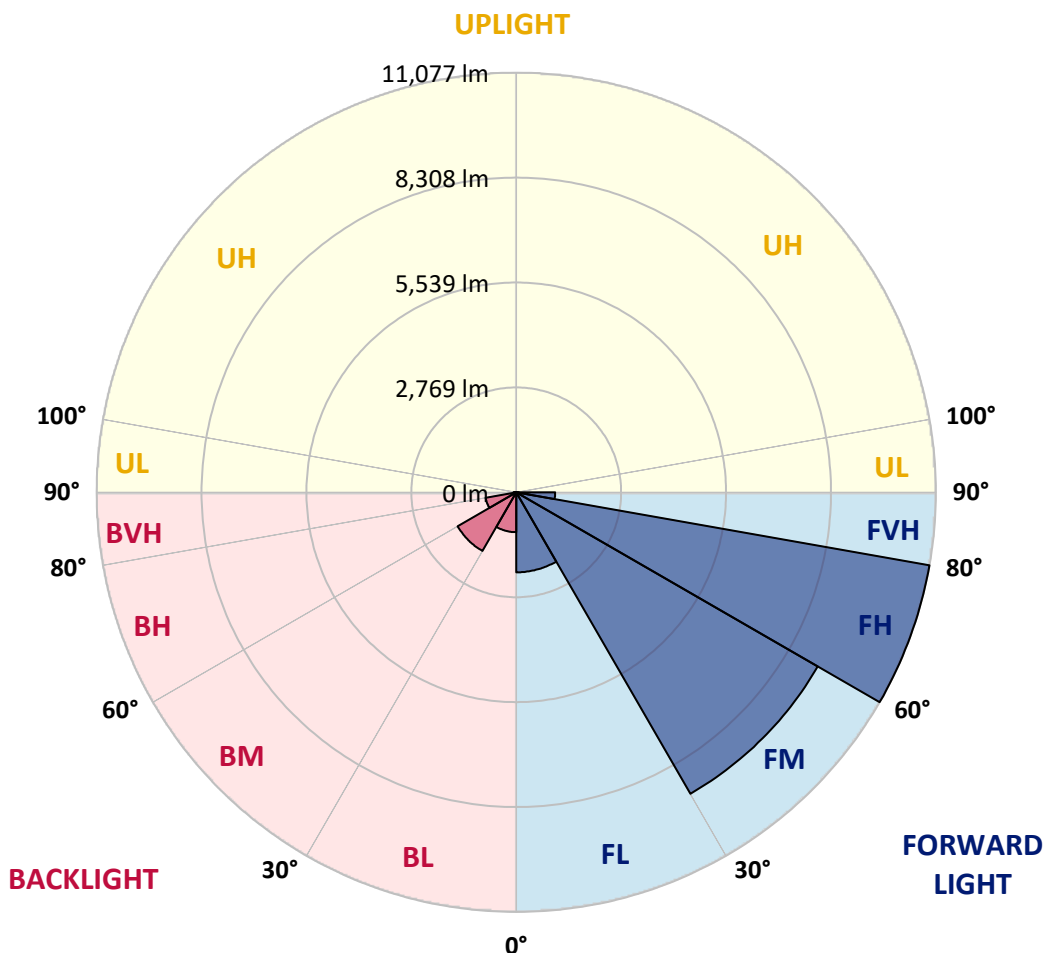


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2111.8	7.8			
FM (30°-60°)	9189.8	33.9			
FH (60°-80°)	11077.2	40.8			G4/12000
FVH (80°-90°)	1026.9	3.8			G5
BL (0°-30°)	1051.9	3.9	B3/2500		
BM (30°-60°)	1787.0	6.6	B2/2500		
BH (60°-80°)	820.8	3.0	B2/1000		G2/1000
BVH (80°-90°)	74.6	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	4782.0	4782.0	4782.0	4782.0	4782.0	4782.0	4782.0	4782.0	4782.0	4782.0	4782.0
2.5°	4945.4	4946.4	4945.4	4937.8	4919.6	4904.3	4891.9	4873.7	4833.6	4803.0	4757.1
5°	4992.3	4986.5	4982.7	4968.4	4939.7	4922.5	4898.6	4864.2	4798.2	4737.0	4662.5
7.5°	4970.3	4963.6	4955.0	4937.8	4905.3	4890.9	4857.5	4812.6	4733.2	4652.9	4545.8
10°	4902.4	4900.5	4896.7	4892.9	4865.1	4853.7	4823.1	4775.3	4696.9	4599.4	4474.1
12.5°	4826.9	4831.7	4847.0	4867.0	4854.6	4848.9	4829.8	4797.3	4717.0	4611.8	4460.7
15°	4779.1	4792.5	4833.6	4886.2	4896.7	4894.8	4890.0	4869.0	4783.9	4667.2	4491.3
17.5°	4762.8	4784.8	4863.2	4950.2	4980.8	4987.5	4989.4	4953.1	4858.4	4735.1	4522.9
20°	4792.5	4820.2	4934.9	5054.4	5103.2	5107.0	5098.4	5035.3	4929.2	4793.4	4540.1
22.5°	4882.3	4907.2	5050.6	5185.4	5240.8	5246.6	5220.8	5125.2	5003.8	4862.3	4564.0
25°	5055.4	5086.0	5229.4	5364.2	5392.9	5393.8	5356.5	5238.0	5101.3	4958.8	4615.6
27.5°	5281.0	5311.6	5440.7	5572.6	5557.3	5548.7	5498.0	5379.5	5228.4	5091.7	4707.4
30°	5532.4	5565.9	5688.3	5781.9	5745.6	5728.4	5687.3	5534.3	5405.3	5273.4	4847.9
32.5°	5792.5	5823.1	5930.1	5994.2	5948.3	5940.6	5878.5	5738.9	5635.7	5550.6	5075.5
35°	6059.2	6081.2	6186.3	6222.7	6161.5	6159.6	6142.4	6014.3	5949.3	5989.4	5406.2
37.5°	6331.7	6337.4	6427.3	6429.2	6411.0	6418.7	6436.8	6356.5	6374.7	6499.9	5836.4
40°	6574.5	6589.8	6654.8	6674.9	6706.4	6733.2	6824.0	6771.4	6912.0	7133.7	6371.8
42.5°	6754.2	6783.8	6888.1	6939.7	7042.0	7084.0	7212.1	7260.9	7543.9	7876.6	7008.5
45°	6906.2	6952.1	7119.4	7225.5	7398.6	7472.2	7655.7	7819.2	8258.0	8682.5	7678.7
47.5°	7070.7	7129.0	7338.3	7541.0	7776.2	7859.4	8193.0	8437.7	9020.0	9493.2	8310.6
50°	7312.5	7357.5	7562.0	7880.4	8173.9	8281.0	8742.7	9093.6	9794.3	10265.6	8858.4
52.5°	7650.0	7632.8	7805.8	8252.3	8646.2	8778.1	9329.7	9791.5	10579.2	10964.5	9321.1
55°	7989.4	7960.7	8082.1	8641.4	9196.8	9335.4	9976.0	10492.2	11325.9	11593.5	9675.8
57.5°	8367.0	8312.5	8414.8	9080.2	9824.0	9989.4	10699.7	11236.9	12060.1	12102.1	9901.4
60°	8756.1	8682.5	8797.2	9624.2	10620.3	10815.3	11546.7	11963.5	12752.2	12509.4	9974.1
62.5°	9096.4	9044.8	9221.7	10231.2	11518.0	11732.2	12378.4	12736.0	13434.8	12678.6	9712.1
65°	9393.8	9402.4	9708.3	10913.8	12519.0	12747.4	13332.5	13688.2	13972.1	12578.2	9099.3
67.5°	9748.4	9797.2	10319.2	11812.5	13779.0	14029.4	14720.6	14726.4	14272.3	11989.3	7892.8
70°	10265.6	10366.0	11159.5	13059.1	15570.5	15914.7	16448.2	15336.3	13850.7	10392.8	6210.2
72.5°	10724.5	10911.9	12053.4	14485.5	17754.1	18015.1	17458.7	14984.5	12088.7	7788.6	3869.0
74°	10538.1	10770.4	12215.9	15188.1	18576.2	18701.5	17117.4	13957.7	10079.2	5393.8	2248.5
75°	10136.6	10389.0	11978.8	15181.4	18472.0	18402.2	16293.3	12784.7	8301.0	3678.7	1496.2
77.5°	8180.6	8447.3	10093.6	13011.3	15146.1	15080.1	12516.1	8576.4	3635.7	1206.5	760.0
80°	4756.2	4959.8	6265.7	8262.8	10213.1	10332.6	8231.2	4243.7	1430.2	677.8	515.3
82.5°	2112.8	2253.3	3026.7	4217.9	6163.4	6317.3	4310.6	2223.7	883.4	412.0	309.7
85°	1386.2	1490.4	1837.5	2008.6	2935.0	3040.1	2109.9	1731.3	583.2	226.6	227.5
87.5°	997.1	1097.5	1365.2	1192.1	1347.0	1275.3	1148.2	1602.3	234.2	129.1	76.5
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°	4782.0	4782.0	4782.0	4782.0	4782.0	4782.0	4782.0	4782.0	4782.0	4782.0	4782.0
2.5°	4737.0	4721.7	4687.3	4622.3	4586.0	4555.4	4504.7	4475.1	4461.7	4460.7	4466.5
5°	4619.4	4584.1	4495.2	4386.2	4299.2	4219.8	4121.4	4062.1	4020.0	3995.2	4001.9
7.5°	4482.7	4427.3	4287.7	4113.7	3974.1	3820.2	3668.2	3577.4	3506.6	3454.1	3463.6
10°	4389.0	4312.6	4108.9	3858.5	3626.1	3402.4	3193.1	3067.8	2968.4	2891.9	2897.7
12.5°	4357.5	4254.2	3972.2	3637.6	3311.6	3005.7	2732.3	2540.1	2437.8	2350.8	2357.5
15°	4362.3	4223.7	3857.5	3438.8	3028.6	2643.4	2311.6	2087.0	1948.3	1888.1	1889.1
17.5°	4366.1	4188.3	3737.0	3225.6	2748.5	2304.9	1944.5	1717.0	1586.0	1530.6	1531.5
20°	4353.7	4130.9	3587.9	2980.8	2456.0	1994.2	1645.3	1452.2	1352.8	1309.7	1309.7
22.5°	4337.4	4063.0	3419.6	2735.1	2167.3	1724.6	1431.1	1283.9	1226.6	1197.9	1196.9
25°	4345.1	4012.4	3247.6	2482.8	1901.5	1509.5	1288.7	1191.2	1152.9	1134.8	1133.8
27.5°	4386.2	3988.5	3088.9	2231.3	1669.2	1348.0	1193.1	1124.3	1099.4	1087.9	1087.9
30°	4460.7	3988.5	2923.5	2017.2	1476.1	1228.5	1119.5	1072.6	1055.4	1047.8	1047.8
32.5°	4590.8	4010.5	2763.8	1804.9	1322.2	1134.8	1058.3	1026.8	1013.4	1009.5	1009.5
35°	4814.5	4085.0	2608.0	1604.2	1197.9	1058.3	1000.0	981.8	972.3	971.3	974.2
37.5°	5129.0	4237.0	2461.7	1456.0	1109.9	996.2	951.2	936.9	931.2	935.9	939.8
40°	5524.8	4443.5	2328.8	1322.2	1043.0	946.5	906.3	896.7	893.9	900.6	906.3
42.5°	6002.8	4722.7	2219.9	1225.6	991.4	904.4	868.1	856.6	853.7	861.4	869.0
45°	6520.0	5022.9	2143.4	1153.9	951.2	872.8	834.6	822.2	816.4	820.3	828.9
47.5°	6990.3	5306.8	2112.8	1103.2	913.0	846.1	805.0	789.7	780.1	778.2	784.9
50°	7387.1	5518.1	2127.1	1072.6	882.4	816.4	776.3	759.1	744.7	736.1	740.9
52.5°	7675.8	5651.0	2140.5	1059.3	858.5	783.9	744.7	728.5	709.4	695.0	695.0
55°	7885.2	5681.6	2110.9	1048.7	840.3	748.6	709.4	694.1	674.9	658.7	656.8
57.5°	7967.4	5595.5	2000.9	1033.4	827.9	715.1	672.1	660.6	644.4	625.2	624.3
60°	7856.5	5329.8	1788.7	1000.9	811.7	687.4	634.8	627.1	619.5	601.3	600.4
62.5°	7411.0	4746.6	1514.3	935.0	779.1	657.7	600.4	604.2	605.2	592.7	590.8
65°	6603.2	3945.5	1246.6	848.9	730.4	622.4	565.0	583.2	593.7	591.8	588.9
67.5°	5429.2	3070.7	1056.4	758.1	666.3	573.6	526.8	547.8	556.4	563.1	561.2
70°	4029.6	2165.4	873.8	662.5	588.9	516.2	477.0	487.6	481.8	489.5	492.3
72.5°	2246.6	1299.2	712.2	566.9	508.6	449.3	421.6	419.7	407.3	407.3	407.3
74°	1348.0	953.1	626.2	507.6	459.8	405.3	381.4	372.8	361.4	362.3	361.4
75°	1084.1	819.3	574.6	468.4	425.4	379.5	355.6	344.2	335.6	335.6	334.6
77.5°	684.5	622.4	462.7	372.8	340.3	312.6	296.4	281.1	281.1	280.1	279.2
80°	517.2	495.2	360.4	282.0	261.0	240.0	229.4	222.8	222.8	225.6	224.7
82.5°	354.7	372.8	253.3	196.9	186.4	171.1	169.2	170.2	167.3	163.5	162.5
85°	259.1	280.1	171.1	124.3	113.8	104.2	111.9	115.7	110.9	102.3	98.5
87.5°	99.4	183.6	91.8	51.6	47.8	41.1	47.8	49.7	53.5	42.1	43.0
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)