

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: McGRAW-EDISON

Report Number: P646948

Luminaire Tested: **GALN-SA5C-835-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646948
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-835-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1050mA 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: 26984.5 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

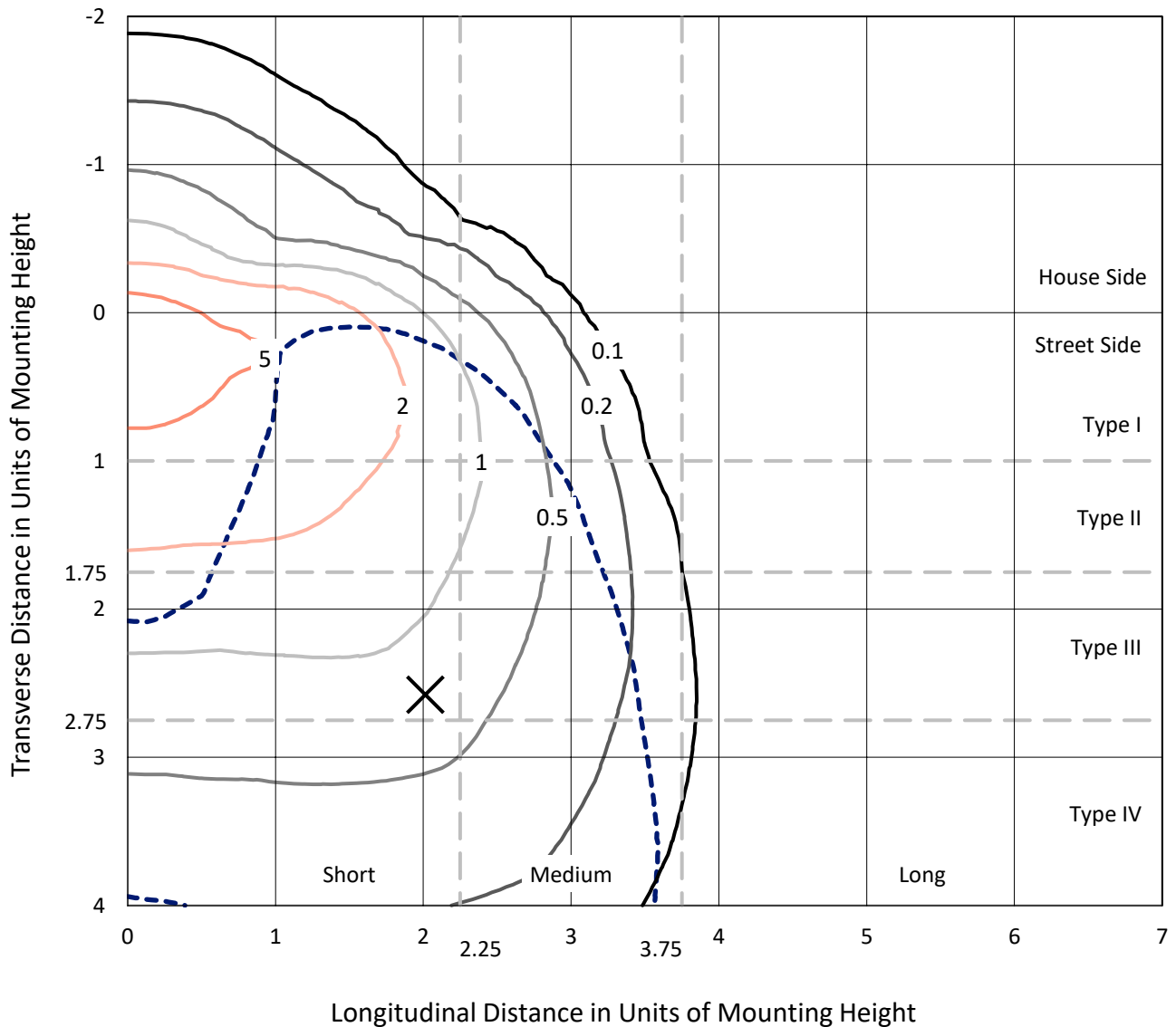
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

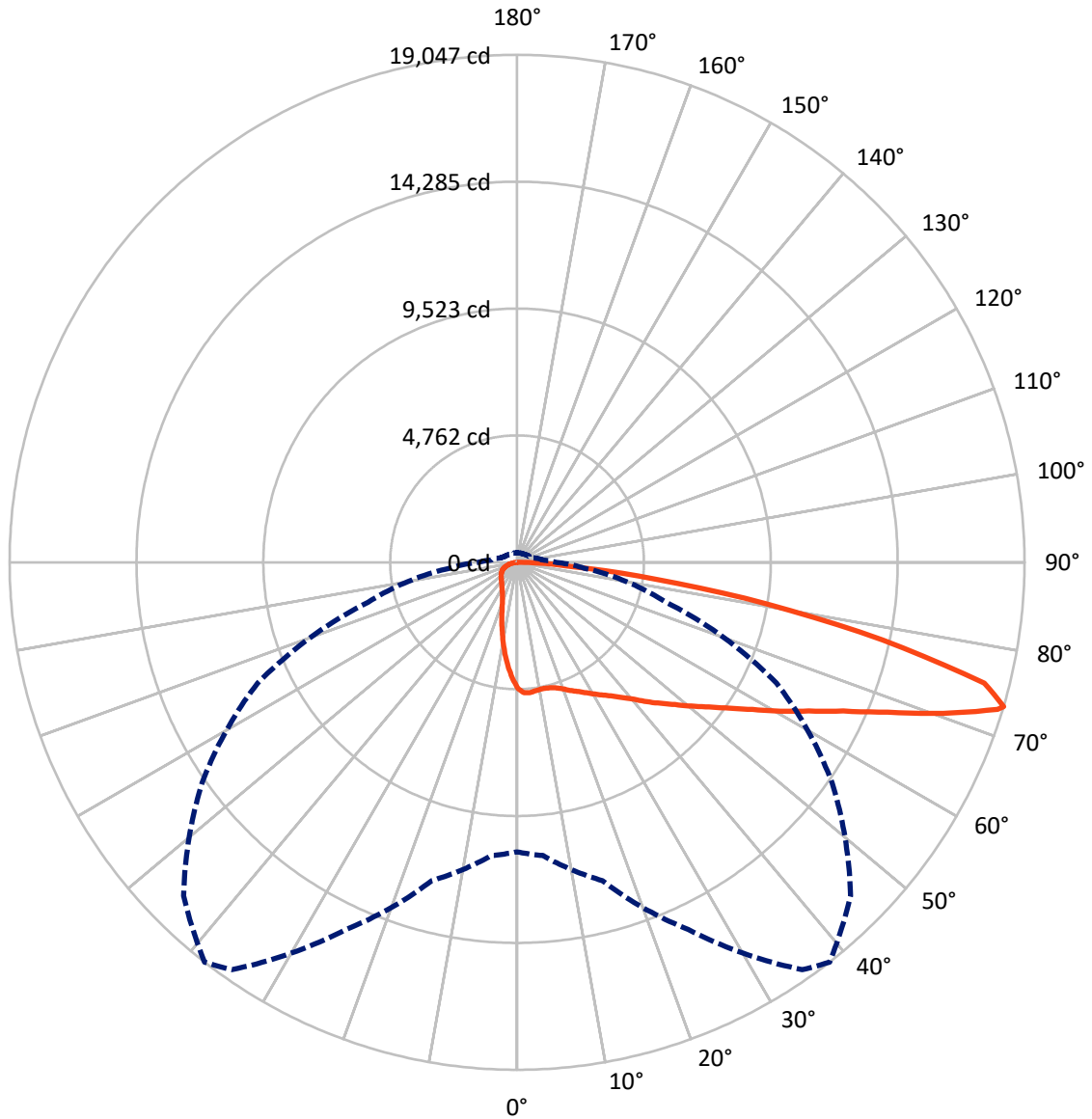
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical



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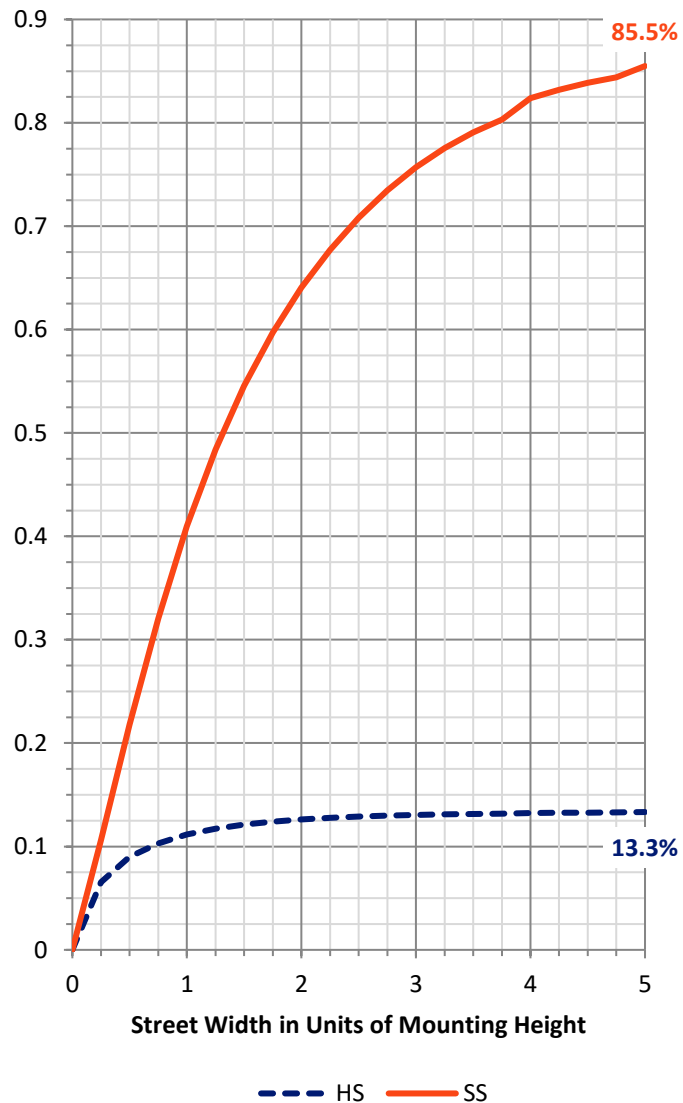
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3627.5	0.0	3627.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	23357.0	0.0	23357.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	26984.5	0.0	26984.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.8	1.5
10°-20°	1061.2	3.9
20°-30°	1652.4	6.1
30°-40°	2423.7	9.0
40°-50°	3595.3	13.3
50°-60°	5093.8	18.9
60°-70°	6461.7	23.9
70°-80°	5378.9	19.9
80°-90°	903.7	3.3
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°	26984.5	100.0
0°-180°	26984.5	100.0

Coefficient of Utilization

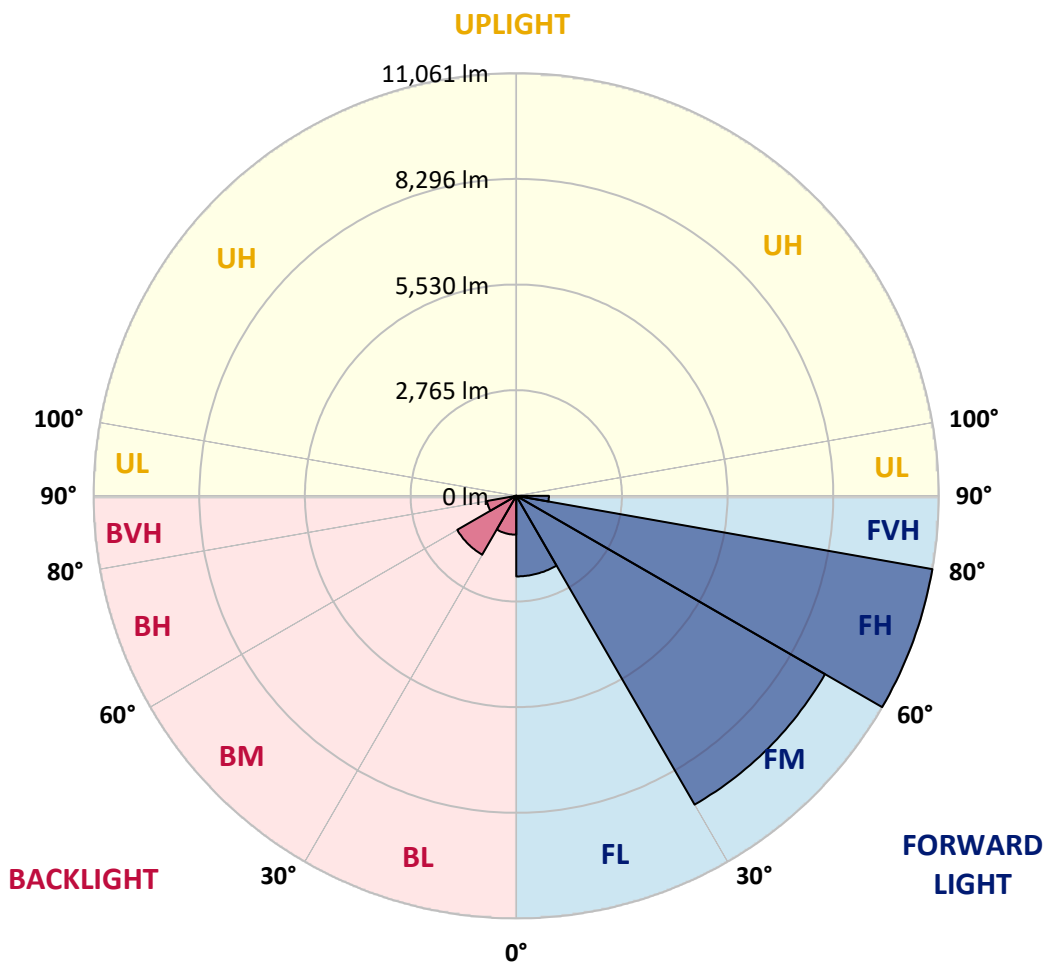


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2109.5	7.8			
FM (30°-60°)	9332.0	34.6			
FH (60°-80°)	11060.8	41.0			G4/12000
FVH (80°-90°)	854.7	3.2			G5
BL (0°-30°)	1017.9	3.8	B3/2500		
BM (30°-60°)	1780.9	6.6	B2/2500		
BH (60°-80°)	779.7	2.9	B2/1000		G2/1000
BVH (80°-90°)	49.0	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4740.8	4740.8	4740.8	4740.8	4740.8	4740.8	4740.8	4740.8	4740.8	4740.8	4740.8
2.5°	4931.2	4955.6	4943.4	4926.6	4916.0	4905.3	4890.1	4845.9	4810.8	4772.7	4713.3
5°	4967.7	4983.0	4972.4	4951.0	4926.6	4916.0	4887.0	4829.1	4772.7	4708.7	4620.3
7.5°	4946.4	4952.6	4940.3	4914.4	4893.1	4873.3	4839.8	4775.8	4707.2	4629.5	4513.7
10°	4870.3	4893.1	4893.1	4871.7	4850.5	4839.8	4806.3	4745.3	4682.8	4594.4	4457.3
12.5°	4807.8	4832.1	4851.9	4845.9	4844.3	4844.3	4818.4	4772.7	4699.6	4615.8	4452.7
15°	4765.1	4794.1	4836.7	4861.1	4876.4	4880.9	4870.3	4830.6	4755.9	4658.5	4471.0
17.5°	4755.9	4791.0	4868.7	4922.1	4961.7	4960.1	4957.1	4902.3	4820.0	4719.4	4493.9
20°	4797.1	4842.9	4951.0	5034.8	5092.7	5082.1	5065.3	4993.7	4897.7	4784.9	4515.2
22.5°	4920.5	4967.7	5086.6	5178.1	5234.4	5234.4	5184.2	5089.7	4987.6	4861.1	4544.1
25°	5097.3	5149.1	5275.6	5368.6	5394.5	5374.7	5324.4	5210.1	5092.7	4970.8	4605.1
27.5°	5313.7	5376.2	5493.5	5571.2	5563.6	5548.3	5496.6	5350.2	5232.9	5121.7	4708.7
30°	5583.4	5629.1	5751.1	5769.3	5741.9	5738.8	5665.7	5519.4	5409.7	5324.4	4856.6
32.5°	5837.9	5879.1	5976.6	5984.2	5935.5	5941.6	5873.0	5738.8	5676.4	5645.9	5104.9
35°	6107.6	6128.9	6212.8	6203.6	6171.6	6167.1	6139.7	6011.6	6031.4	6086.3	5457.0
37.5°	6333.1	6375.8	6423.0	6430.7	6429.1	6444.4	6462.6	6401.7	6516.0	6688.2	5918.7
40°	6540.4	6577.0	6647.0	6671.5	6730.9	6761.4	6823.8	6825.3	7089.0	7372.4	6487.1
42.5°	6680.6	6743.0	6874.1	6918.4	7063.1	7154.5	7247.4	7346.5	7729.0	8093.2	7157.6
45°	6802.5	6884.8	7102.7	7239.9	7436.5	7547.7	7744.3	7951.5	8501.6	8978.6	7838.7
47.5°	6986.9	7060.1	7309.9	7552.3	7849.4	7977.4	8271.5	8580.8	9300.1	9822.8	8490.9
50°	7242.9	7287.1	7541.5	7936.3	8315.7	8480.3	8868.9	9315.4	10153.5	10656.3	9063.9
52.5°	7570.5	7588.8	7791.5	8317.2	8817.0	9021.3	9536.3	10057.5	10900.1	11380.2	9518.0
55°	7957.6	7927.1	8085.6	8721.1	9390.0	9656.7	10209.9	10808.8	11739.8	11965.3	9848.7
57.5°	8340.0	8292.8	8419.3	9211.8	10097.1	10418.6	11063.2	11582.8	12489.6	12512.4	10080.3
60°	8745.4	8710.4	8861.2	9787.7	10964.2	11345.1	11941.0	12385.9	13214.9	12893.3	10116.9
62.5°	9161.4	9105.0	9319.9	10435.4	11941.0	12286.8	12864.4	13239.3	13926.5	13035.1	9764.9
65°	9565.3	9539.4	9871.6	11205.0	13053.4	13446.5	14007.3	14261.8	14496.5	12821.8	8891.7
67.5°	9995.0	10046.8	10577.1	12232.0	14504.1	14997.8	15602.8	15363.6	14659.5	11811.4	7488.2
70°	10650.2	10683.8	11503.6	13577.6	16373.9	16969.7	17262.3	15755.2	13873.2	9892.9	5629.1
72.5°	10932.2	11080.0	12331.1	14990.2	18498.1	18862.3	17820.0	14882.0	11556.9	6720.3	2957.8
73°	10869.7	11046.5	12369.1	15205.1	18664.2	19046.7	17701.1	14432.5	10743.2	5787.6	2535.7
75°	10091.0	10308.9	11873.9	15025.2	18341.1	18112.6	15790.2	12300.6	7259.7	2631.7	1155.1
77.5°	7962.2	8024.7	9408.3	12133.0	14443.1	14019.5	11817.5	7687.9	2965.5	978.3	655.3
80°	3994.0	4224.1	5303.0	6950.3	9658.2	9519.6	7459.2	3635.9	1235.9	574.5	434.3
82.5°	1921.6	2084.7	2583.0	3389.1	5336.5	5210.1	3693.8	1987.1	784.8	335.3	256.0
85°	1237.4	1359.3	1644.2	1616.8	2194.4	2095.3	1659.5	1504.1	464.8	175.2	178.3
87.5°	816.8	894.5	1072.8	857.9	798.5	722.3	733.0	847.3	91.5	67.0	24.4
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°	4740.8	4740.8	4740.8	4740.8	4740.8	4740.8	4740.8	4740.8	4740.8	4740.8	4740.8
2.5°	4688.9	4669.1	4603.6	4539.6	4478.6	4420.7	4382.6	4332.3	4298.8	4307.9	4321.7
5°	4571.5	4527.4	4411.6	4298.8	4192.1	4065.6	3963.5	3881.3	3818.8	3795.9	3791.4
7.5°	4448.1	4373.4	4207.4	4013.8	3832.5	3675.6	3494.2	3404.3	3299.2	3262.6	3250.4
10°	4373.4	4272.9	4039.7	3770.0	3497.3	3236.7	3040.1	2880.1	2735.3	2707.9	2694.1
12.5°	4352.1	4219.6	3905.7	3558.2	3195.5	2875.5	2584.4	2374.1	2234.0	2202.0	2154.7
15°	4339.9	4175.3	3780.7	3344.9	2884.7	2494.6	2188.3	1942.9	1814.9	1729.6	1731.1
17.5°	4329.3	4125.1	3640.5	3111.7	2616.5	2167.0	1828.6	1607.7	1490.4	1444.6	1440.0
20°	4314.0	4065.6	3478.9	2866.4	2310.2	1868.2	1561.9	1397.3	1318.1	1280.0	1278.5
22.5°	4307.9	4007.8	3320.5	2616.5	2038.9	1638.1	1385.2	1269.4	1219.1	1193.2	1193.2
25°	4323.2	3966.6	3154.4	2378.8	1798.2	1441.6	1263.3	1184.1	1155.1	1141.4	1136.8
27.5°	4370.4	3948.4	2989.8	2141.0	1577.2	1307.5	1181.0	1126.1	1104.8	1094.2	1095.7
30°	4460.4	3946.8	2828.3	1906.4	1412.6	1205.4	1115.5	1077.3	1060.6	1054.5	1053.0
32.5°	4605.1	3980.3	2669.8	1712.8	1273.9	1120.0	1054.5	1027.1	1019.5	1014.9	1013.4
35°	4850.5	4074.8	2512.9	1536.0	1167.3	1043.8	996.6	982.9	972.3	976.8	978.3
37.5°	5181.1	4237.8	2363.5	1397.3	1086.5	987.4	947.8	935.7	929.6	934.1	938.7
40°	5624.5	4472.5	2238.5	1286.2	1028.6	940.2	905.1	894.5	888.4	896.1	897.6
42.5°	6113.7	4743.8	2134.9	1199.2	981.3	900.6	867.1	854.9	850.3	854.9	856.4
45°	6616.6	5059.2	2081.6	1136.8	941.7	871.6	836.6	822.9	812.2	809.2	813.8
47.5°	7111.8	5333.5	2080.0	1098.7	909.8	845.7	807.7	792.4	778.7	771.1	769.5
50°	7515.7	5551.4	2116.6	1081.9	882.3	816.8	778.7	763.4	745.2	729.9	733.0
52.5°	7820.4	5693.1	2133.4	1074.4	867.1	786.3	748.2	734.5	713.2	693.3	693.3
55°	8017.1	5726.6	2092.3	1066.7	854.9	754.3	713.2	700.9	679.6	659.8	659.8
57.5°	8084.1	5623.0	1944.4	1048.4	842.7	726.9	678.1	667.4	650.7	630.9	627.8
60°	7928.7	5272.6	1685.4	993.5	818.3	698.0	640.0	635.5	629.4	612.6	611.1
62.5°	7329.7	4528.9	1403.4	921.9	777.2	667.4	604.9	612.6	617.2	608.0	606.5
65°	6333.1	3677.0	1199.2	822.9	722.3	624.8	566.9	586.7	598.8	598.8	595.9
67.5°	5136.9	2823.7	1010.3	737.6	653.7	566.9	524.2	539.4	548.6	545.5	553.2
70°	3651.1	1912.5	822.9	640.0	566.9	501.4	469.3	469.3	463.2	460.2	460.2
72.5°	1770.8	1092.6	667.4	534.9	483.0	428.2	402.3	391.7	379.4	378.0	370.3
73°	1479.6	979.8	637.0	515.1	463.2	417.6	388.6	371.8	364.2	358.1	356.6
75°	900.6	743.6	531.8	434.3	394.7	359.6	333.7	318.5	310.9	306.3	304.7
77.5°	592.8	554.7	413.0	332.2	301.7	280.4	269.7	254.5	249.9	243.8	243.8
80°	441.9	423.6	295.7	234.7	216.4	198.1	195.0	192.0	179.8	172.2	169.1
82.5°	284.9	301.7	201.2	157.0	137.2	121.9	123.4	128.0	115.8	105.2	102.1
85°	202.6	217.9	121.9	71.6	57.9	50.3	56.4	50.3	51.8	41.1	33.5
87.5°	33.5	57.9	21.3	9.2	4.5	3.1	0.0	0.0	0.0	0.0	0.0
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)