

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: P651487

Luminaire Tested: **GALN-SA6D-840-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651487  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-840-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38607.8 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

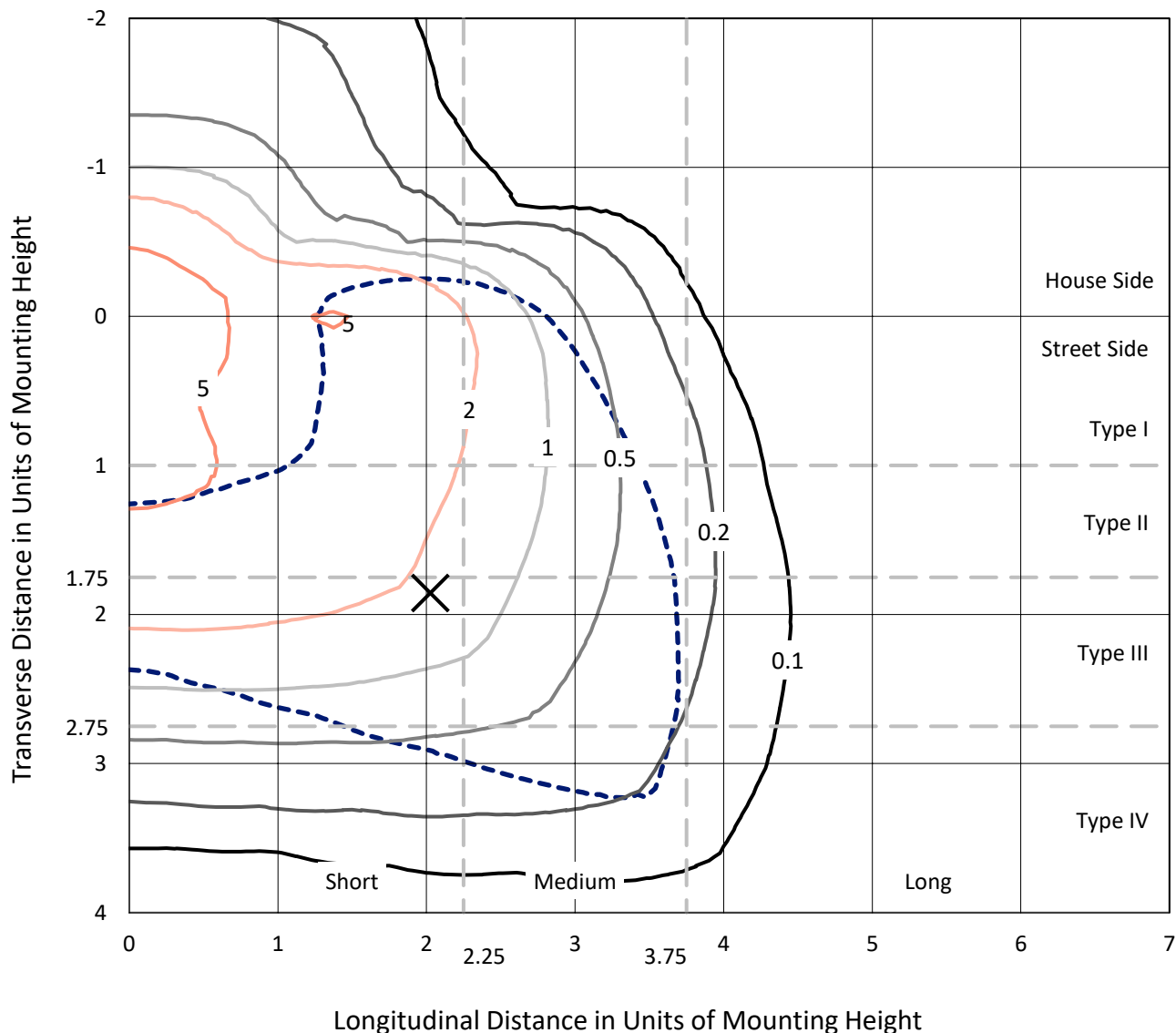
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

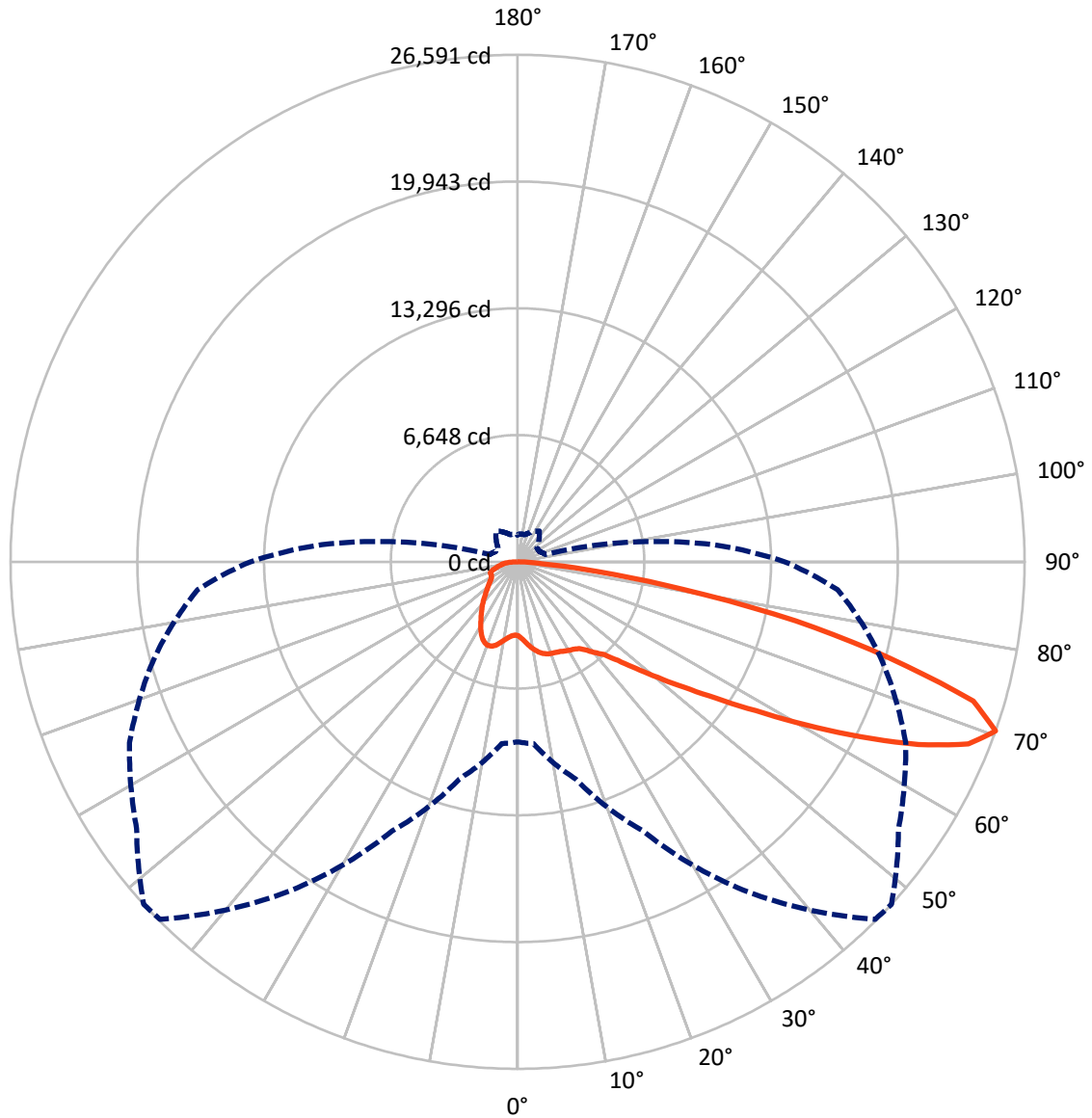
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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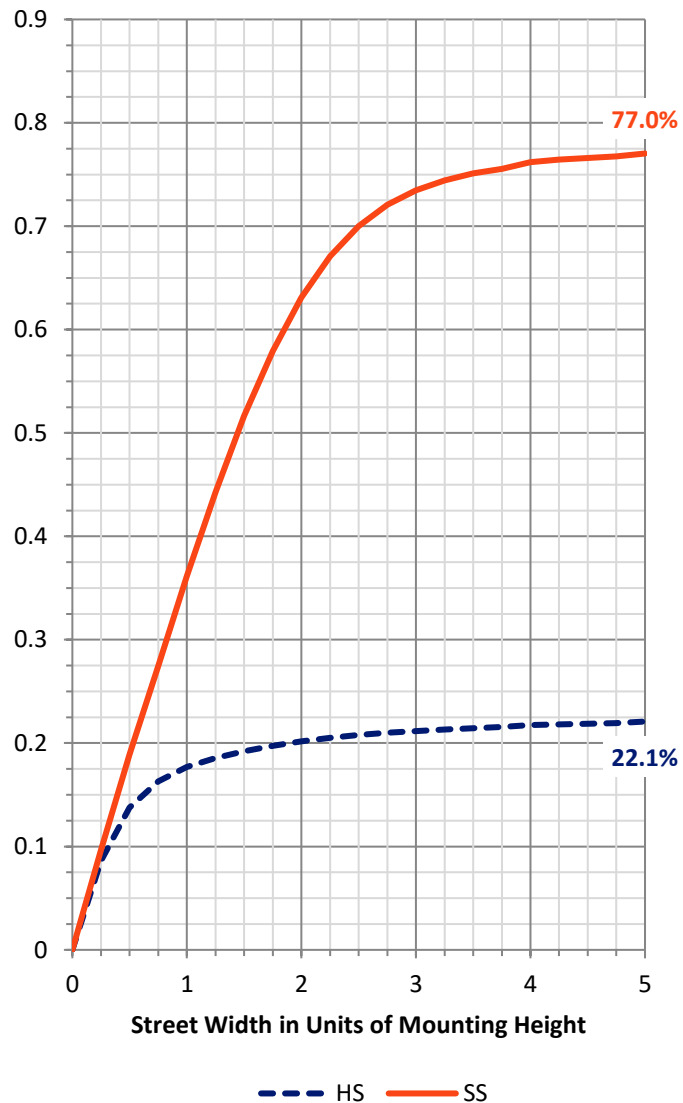
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8741.6	0.0	8741.6
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	29866.2	0.0	29866.2
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	38607.8	0.0	38607.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	399.5	1.0
10°-20°	1335.6	3.5
20°-30°	2221.1	5.8
30°-40°	3148.0	8.2
40°-50°	4647.2	12.0
50°-60°	8049.1	20.8
60°-70°	11369.6	29.4
70°-80°	6535.9	16.9
80°-90°	901.8	2.3
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°	38607.8	100.0
0°-180°	38607.8	100.0

**Coefficient of Utilization**

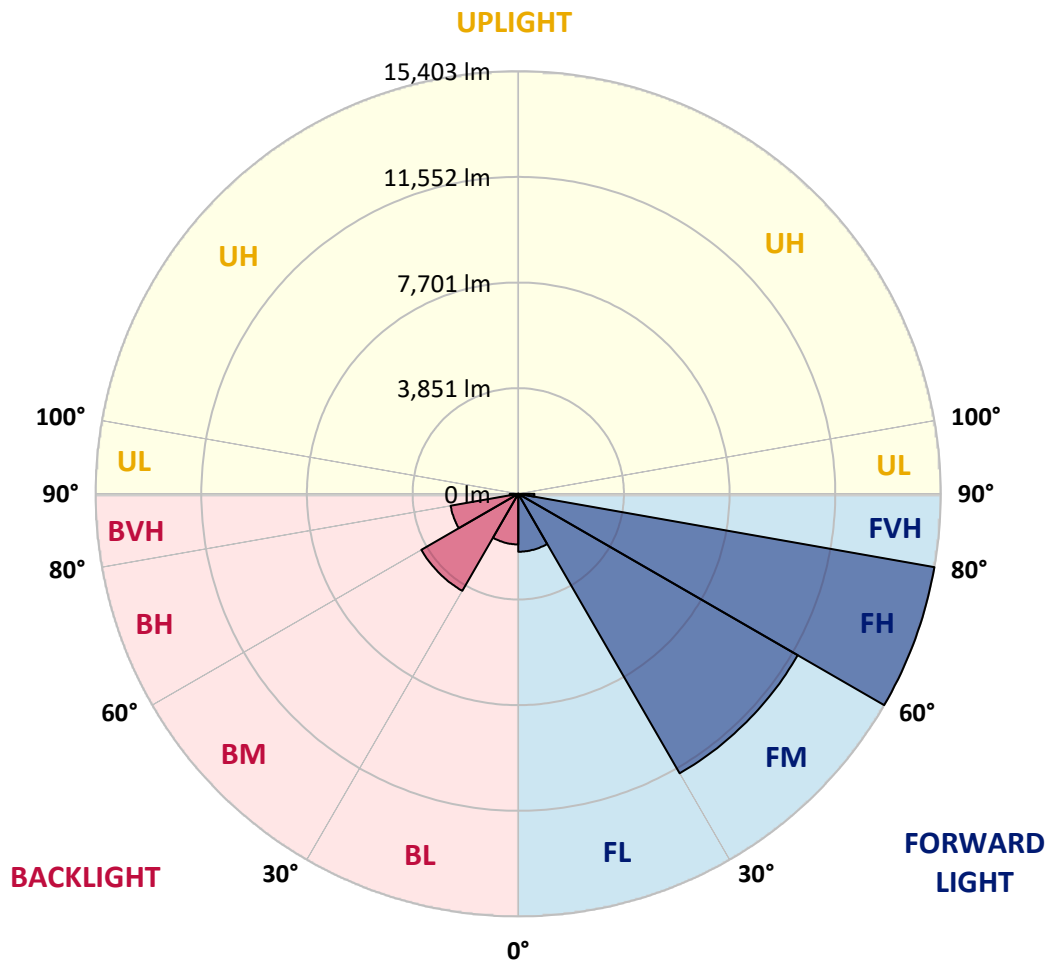


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2111.2	5.5			
FM (30°-60°)	11763.0	30.5			
FH (60°-80°)	15402.9	39.9			G5
FVH (80°-90°)	589.1	1.5			G4/750
BL (0°-30°)	1845.0	4.8	B3/2500		
BM (30°-60°)	4081.3	10.6	B3/5000		
BH (60°-80°)	2502.6	6.5	B4/5000		G4/5000
BVH (80°-90°)	312.7	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	3875.7	3875.7	3875.7	3875.7	3875.7	3875.7	3875.7	3875.7	3875.7	3875.7	3875.7
2.5°	4125.8	4111.3	4109.2	4078.3	4061.7	4030.7	4018.3	3989.4	3954.3	3919.1	3886.1
5°	4450.1	4450.1	4435.6	4392.3	4324.1	4253.9	4222.8	4167.1	4067.9	3987.3	3919.1
7.5°	4782.7	4786.9	4758.0	4693.9	4596.8	4483.1	4454.2	4371.6	4231.1	4113.3	4012.1
10°	5069.9	5069.9	5030.6	4943.9	4822.0	4698.0	4669.1	4576.1	4419.1	4272.4	4140.2
12.5°	5288.9	5288.9	5237.2	5123.6	4991.4	4879.8	4846.8	4758.0	4611.2	4448.0	4280.7
15°	5431.4	5421.1	5363.2	5235.1	5107.1	5010.0	4987.2	4912.9	4778.6	4613.3	4425.3
17.5°	5437.7	5433.5	5377.7	5270.3	5158.7	5092.6	5078.1	5028.6	4923.2	4766.2	4567.9
20°	5317.8	5326.1	5288.9	5212.4	5158.7	5129.8	5123.6	5107.1	5032.7	4886.0	4687.6
22.5°	5189.7	5204.2	5169.0	5127.7	5123.6	5152.6	5156.7	5160.8	5113.3	4970.7	4788.9
25°	5158.7	5169.0	5134.0	5096.7	5119.5	5196.0	5212.4	5229.0	5191.7	5072.0	4908.7
27.5°	5315.7	5307.5	5239.3	5158.7	5173.2	5276.5	5299.2	5317.8	5299.2	5196.0	5057.5
30°	5759.9	5733.1	5596.7	5361.2	5286.8	5359.1	5381.8	5433.5	5433.5	5357.1	5218.7
32.5°	6503.7	6452.0	6202.0	5739.2	5481.0	5437.7	5460.4	5545.0	5588.4	5528.6	5377.7
35°	7406.5	7352.8	6995.4	6373.5	5836.4	5594.7	5588.4	5683.5	5799.2	5664.9	5468.6
37.5°	8313.5	8257.7	7827.9	7129.7	6354.9	5925.2	5888.0	5921.1	5970.7	5724.8	5594.7
40°	9220.4	9154.3	8778.3	7974.6	6989.1	6363.2	6266.1	6117.3	6096.7	5921.1	5838.4
42.5°	10119.1	10059.2	9869.1	8922.9	7749.5	6790.8	6642.0	6385.9	6464.4	6359.1	6286.7
45°	11026.1	11030.2	10827.7	9986.9	8666.8	7580.0	7379.6	6978.9	7164.8	7125.5	7166.8
47.5°	11829.8	11819.4	11747.1	11019.9	9805.1	8596.5	8338.3	7873.4	8191.6	8336.2	8652.3
50°	12608.6	12602.4	12606.5	12191.3	11127.3	9805.1	9520.0	9032.4	9749.3	10251.4	10817.4
52.5°	13724.2	13759.3	13509.4	13399.9	12734.6	11232.6	10918.6	10414.5	11590.1	12381.4	13486.6
55°	14844.0	14815.1	14618.8	14732.4	14416.3	12922.6	12594.1	12193.3	13639.5	14505.1	16166.2
57.5°	15503.0	15513.3	15713.7	16269.5	16492.6	15029.9	14732.4	14422.6	15943.1	16556.7	18550.4
60°	16096.0	16143.5	16719.9	17769.4	18374.8	17618.6	17354.1	17052.5	18056.6	18300.3	20620.4
62.5°	16281.9	16428.6	17434.7	19004.8	20209.3	20539.8	20211.3	19546.1	20068.8	19973.8	22023.3
65°	15354.3	15554.7	17358.2	19467.6	21847.6	23312.4	23103.7	21868.3	21783.6	21211.3	22252.5
67.5°	12912.3	13112.7	15428.6	18496.6	22525.3	25713.1	25504.4	23562.4	22824.8	21327.0	20517.1
70°	9447.7	9573.7	11788.4	15573.3	21163.8	26518.7	26591.1	24388.7	22452.9	19754.8	16845.9
72.5°	5443.8	5722.8	7274.3	10955.8	17290.1	24481.8	24983.8	22669.9	20101.8	16480.2	11778.1
75°	2340.8	2347.0	3363.4	6042.9	11709.9	19678.4	20163.8	18792.1	15786.1	11395.9	6288.8
77.5°	1113.6	1134.3	1479.2	2698.2	6445.8	13596.1	14906.0	13275.9	10096.4	5474.8	2375.8
80°	723.1	737.6	904.9	1338.8	3160.9	7883.7	8796.9	7658.6	4454.2	1956.5	1024.8
82.5°	438.0	442.1	605.4	818.1	1739.5	3570.0	4208.4	3324.1	1900.7	1171.4	603.2
85°	266.5	268.6	367.8	506.2	1055.7	1233.4	1266.5	1256.1	1115.6	766.5	322.3
87.5°	128.1	132.2	190.1	239.7	415.3	382.2	361.5	419.4	526.8	413.2	138.4
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°	3875.7	3875.7	3875.7	3875.7	3875.7	3875.7	3875.7	3875.7	3875.7	3875.7	3875.7
2.5°	3871.6	3865.4	3850.9	3844.8	3840.6	3842.7	3840.6	3840.6	3842.7	3842.7	3842.7
5°	3890.2	3879.9	3857.2	3857.2	3869.5	3898.5	3925.4	3946.0	3968.8	3966.7	3966.7
7.5°	3970.8	3952.2	3925.4	3933.6	3964.6	4010.1	4057.6	4103.0	4148.5	4152.6	4150.5
10°	4088.5	4069.9	4041.0	4051.3	4101.0	4169.1	4229.1	4295.2	4344.8	4359.2	4355.0
12.5°	4222.8	4185.7	4160.8	4189.8	4268.3	4359.2	4417.0	4466.6	4501.7	4522.4	4514.2
15°	4359.2	4324.1	4295.2	4355.0	4450.1	4534.8	4563.7	4572.0	4578.2	4598.8	4594.7
17.5°	4491.4	4443.9	4433.6	4512.0	4603.0	4640.1	4623.6	4588.5	4561.7	4578.2	4576.1
20°	4609.2	4572.0	4567.9	4646.4	4681.5	4646.4	4576.1	4514.2	4466.6	4470.8	4468.7
22.5°	4720.7	4691.9	4696.0	4729.0	4673.2	4553.4	4437.7	4353.0	4301.4	4311.6	4317.9
25°	4844.7	4815.7	4826.1	4772.4	4588.5	4379.8	4212.5	4140.2	4119.6	4140.2	4154.6
27.5°	5005.8	4987.2	4981.1	4774.4	4437.7	4123.7	3933.6	3906.8	3925.4	3970.8	3993.5
30°	5179.4	5179.4	5146.3	4739.4	4231.1	3815.9	3650.5	3654.7	3718.7	3782.8	3805.5
32.5°	5346.7	5381.8	5278.5	4644.3	3964.6	3516.3	3390.2	3394.4	3450.2	3528.7	3549.4
35°	5485.2	5586.3	5392.2	4470.8	3650.5	3264.3	3169.2	3113.4	3115.5	3175.4	3191.9
37.5°	5675.2	5863.2	5458.3	4212.5	3315.9	3049.4	2941.9	2844.9	2780.8	2756.0	2756.0
40°	6005.7	6282.6	5474.8	3830.3	2999.8	2844.9	2692.0	2576.2	2452.3	2340.8	2320.1
42.5°	6565.7	6914.8	5441.8	3390.2	2714.7	2619.6	2470.9	2328.3	2156.9	1999.9	1987.5
45°	7557.3	7737.0	5353.0	2933.7	2460.6	2402.7	2258.1	2103.2	1921.3	1780.9	1770.6
47.5°	9146.0	8891.9	5235.1	2528.7	2229.2	2212.7	2101.1	1921.3	1739.5	1642.5	1632.1
50°	11466.1	10710.0	5218.7	2235.4	2043.2	2051.5	1960.6	1795.4	1636.2	1555.7	1543.3
52.5°	14259.3	12906.1	5328.2	2028.7	1880.1	1911.0	1865.6	1712.7	1572.2	1504.0	1491.6
55°	16969.9	14881.2	5394.3	1867.6	1727.2	1785.0	1791.2	1663.1	1535.0	1466.9	1458.5
57.5°	19170.1	16368.6	5100.9	1720.9	1595.0	1683.8	1729.2	1634.1	1516.4	1464.8	1456.5
60°	20701.0	17071.1	4266.2	1590.8	1497.8	1603.2	1706.5	1636.2	1561.9	1568.0	1572.2
62.5°	21188.6	16759.1	3200.2	1493.7	1431.7	1576.4	1743.6	1720.9	1644.5	1692.0	1700.3
65°	20380.8	15469.9	2320.1	1417.3	1373.9	1595.0	1855.2	1782.9	1615.6	1650.7	1650.7
67.5°	17676.4	13327.6	1805.6	1347.0	1307.8	1630.0	1966.8	1776.7	1547.4	1588.7	1551.6
70°	14021.7	10309.1	1504.0	1268.5	1237.5	1578.4	1977.1	1712.7	1466.9	1475.1	1404.9
72.5°	9305.2	6778.5	1293.3	1194.1	1130.1	1419.4	1892.4	1630.0	1388.3	1340.8	1270.6
75°	4559.6	3379.9	1128.0	1101.1	989.6	1235.4	1776.7	1551.6	1303.6	1229.3	1190.0
77.5°	1766.4	1437.9	962.8	983.4	861.5	1088.8	1623.9	1440.0	1192.0	1090.9	1059.8
80°	857.4	816.0	789.2	820.2	708.6	927.6	1483.4	1342.9	1088.8	977.2	931.7
82.5°	533.0	504.1	605.4	638.4	545.4	847.1	1406.9	1260.2	958.6	809.9	772.7
85°	270.6	289.2	404.9	435.9	390.5	673.5	1159.0	946.2	692.1	574.3	578.4
87.5°	103.3	138.4	212.8	229.3	208.7	355.3	638.4	551.6	444.2	301.7	278.9
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)