

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: P647191

Luminaire Tested: **GALN-SA9C-835-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647191  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-835-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39071.7 lumens  
Efficiency: N/A  
Efficacy: 81.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

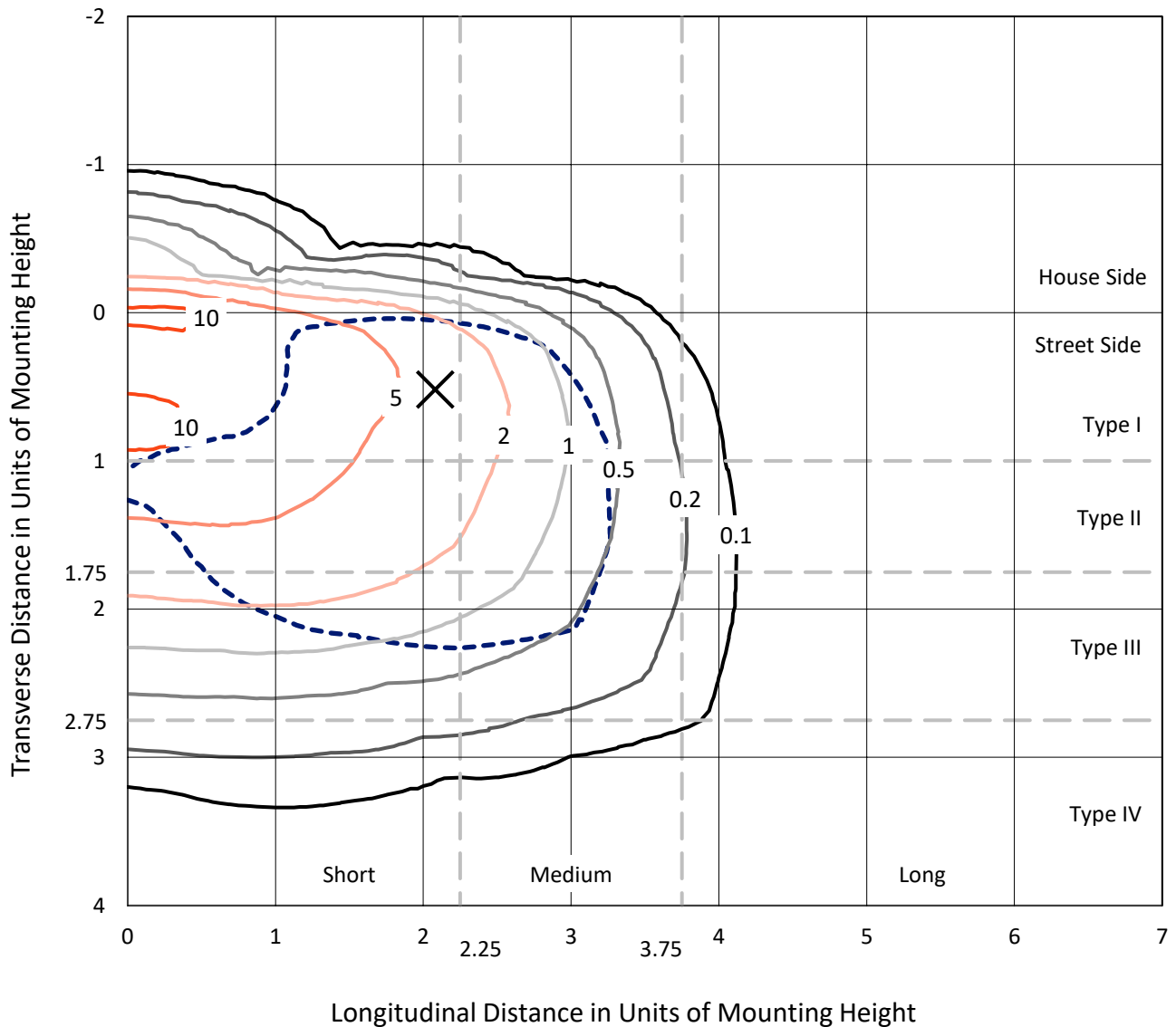
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

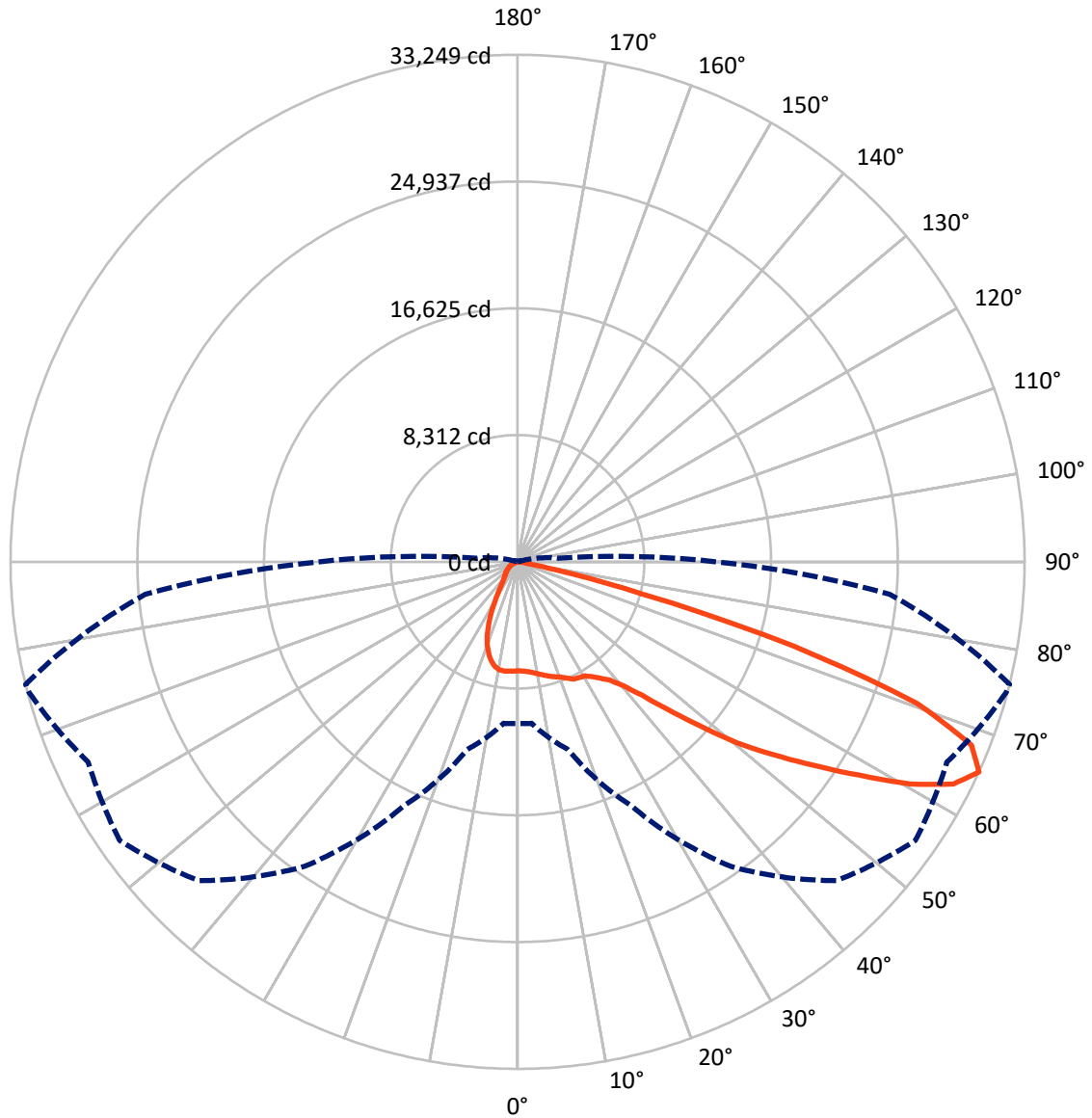
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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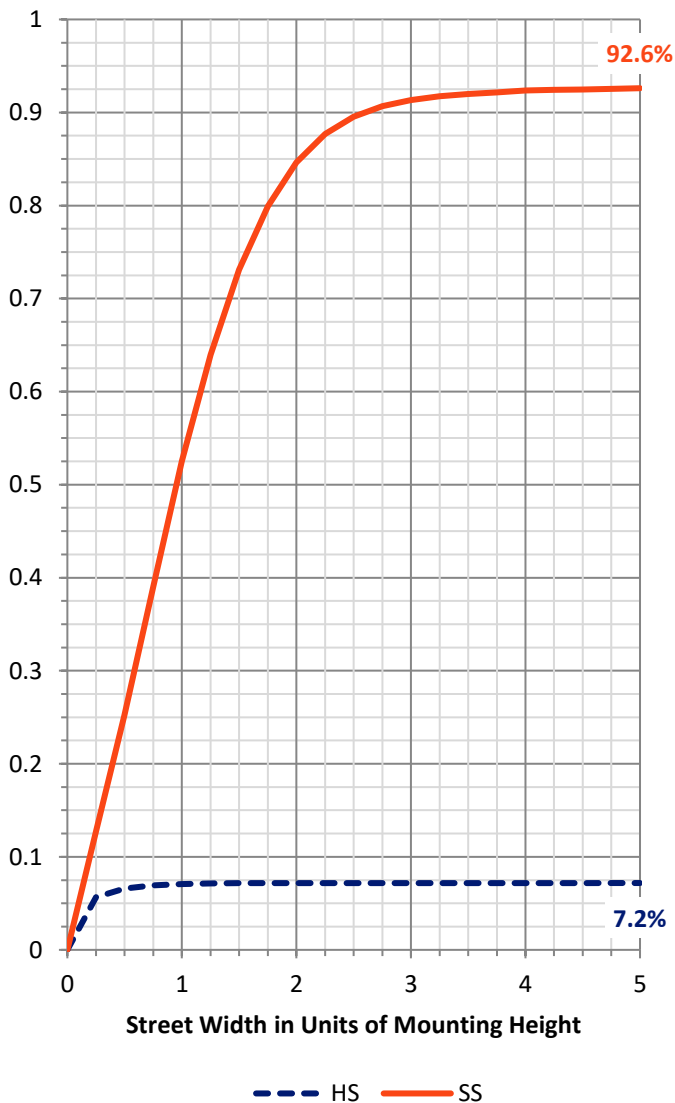
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2821.7	0.0	2821.7
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	36250.0	0.0	36250.0
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	39071.7	0.0	39071.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	588.8	1.5
10°-20°	1311.0	3.4
20°-30°	2112.5	5.4
30°-40°	3673.1	9.4
40°-50°	6069.6	15.5
50°-60°	9376.3	24.0
60°-70°	11449.8	29.3
70°-80°	4345.5	11.1
80°-90°	145.0	0.4
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°	39071.7	100.0
0°-180°	39071.7	100.0

**Coefficient of Utilization**



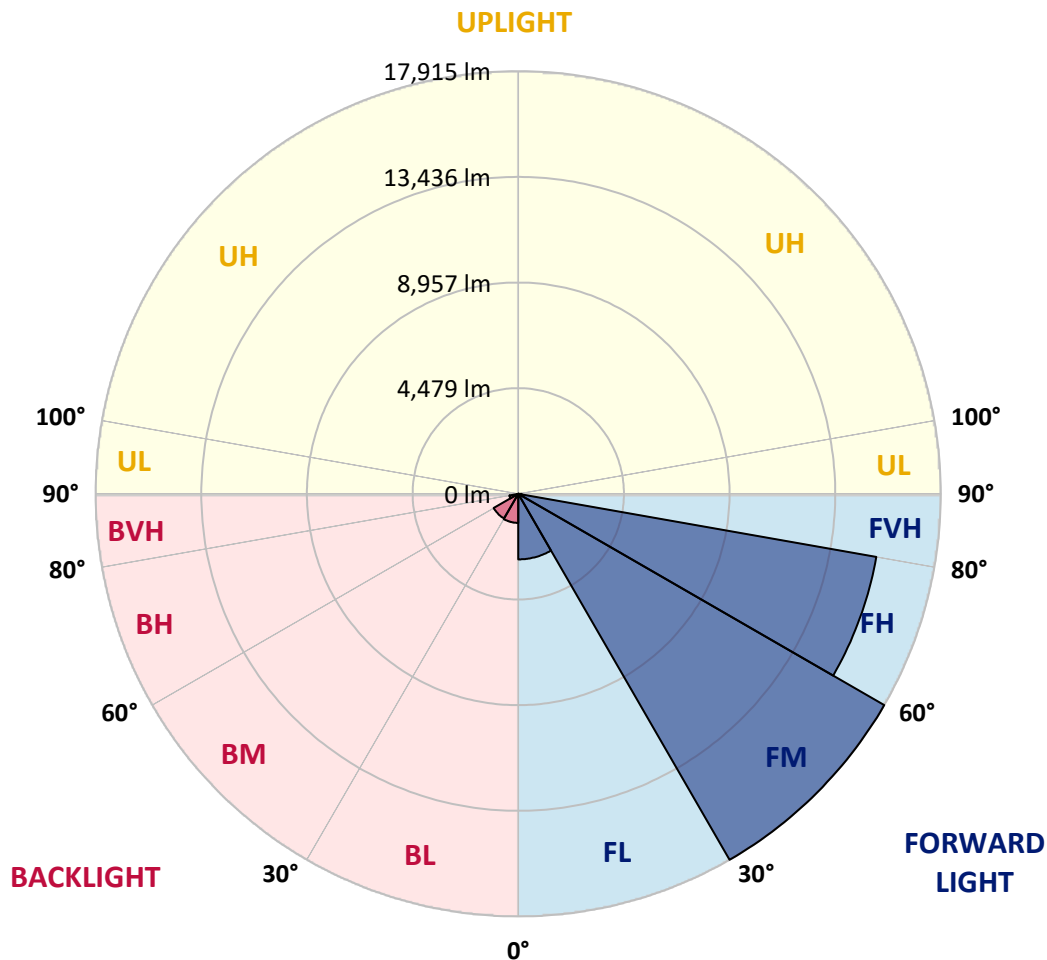
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2779.5	7.1			
FM (30°-60°)	17915.0	45.9			
FH (60°-80°)	15412.5	39.4			G5
FVH (80°-90°)	143.0	0.4			G2/225
BL (0°-30°)	1232.8	3.2	B3/2500		
BM (30°-60°)	1204.1	3.1	B2/2500		
BH (60°-80°)	382.9	1.0	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	7147.5	7147.5	7147.5	7147.5	7147.5	7147.5	7147.5	7147.5	7147.5	7147.5	7147.5
2.5°	6830.2	6833.0	6849.5	6890.9	6954.4	7006.8	7050.9	7122.6	7172.3	7177.8	7194.4
5°	6358.5	6325.4	6358.5	6466.1	6562.6	6708.8	6888.1	7067.4	7227.5	7238.5	7315.7
7.5°	5828.9	5856.4	5908.8	6019.2	6201.3	6424.7	6684.0	7004.0	7307.4	7335.1	7486.7
10°	5291.0	5351.6	5437.2	5605.4	5859.2	6148.8	6502.0	6959.9	7434.4	7473.0	7735.0
12.5°	4794.4	4821.9	4926.8	5153.0	5467.5	5875.8	6364.0	6935.0	7575.1	7622.0	7999.8
15°	4413.7	4449.6	4540.6	4744.7	5095.1	5619.2	6250.9	6926.8	7712.9	7779.2	8264.7
17.5°	4342.0	4364.1	4402.7	4540.6	4846.8	5415.1	6148.8	6924.0	7845.3	7925.4	8510.2
20°	4637.2	4617.8	4579.2	4565.4	4733.7	5257.8	6074.4	6946.1	7972.3	8063.3	8769.5
22.5°	5376.5	5401.3	5175.1	4907.5	4852.3	5233.0	6063.3	7050.9	8173.7	8281.2	9059.2
25°	6946.1	6755.7	6402.7	5762.6	5279.9	5384.8	6187.5	7299.2	8408.2	8526.7	9321.2
27.5°	8681.2	8623.3	8074.4	7020.5	6121.3	5704.7	6408.2	7489.6	8485.4	8606.7	9470.2
30°	10386.0	10455.0	9826.0	8661.9	7343.3	6297.8	6615.0	7561.3	8554.4	8681.2	9660.5
32.5°	11966.7	12049.4	11497.7	10344.7	8783.3	7324.0	6970.9	7839.9	8844.0	8973.6	9977.8
35°	13210.8	13221.8	12805.3	11886.7	10355.6	8570.9	7740.6	8328.1	9235.7	9387.4	10314.3
37.5°	14352.9	14336.3	13848.1	13056.3	11666.0	9809.5	8708.8	8890.9	9682.6	9839.8	10799.8
40°	15199.8	15210.8	15053.6	14308.7	12888.0	10954.3	9475.7	9417.8	10432.9	10678.4	11506.0
42.5°	15765.2	15867.3	15944.5	15566.6	14424.6	12363.9	10653.6	10546.0	11735.0	11939.1	12504.6
45°	16223.1	16405.3	16791.4	16772.1	15900.4	14093.5	12270.2	12049.4	13580.4	13798.4	13776.3
47.5°	16556.9	16741.8	17381.7	17768.0	17287.9	15770.8	14303.2	14112.9	15784.6	16021.8	15180.4
50°	16728.0	16948.7	17765.2	18512.8	18372.1	17387.3	16620.4	16631.5	18446.5	18675.6	16808.0
52.5°	16328.0	16614.9	17969.3	19315.5	19588.6	18934.8	18791.4	19155.5	20816.2	21012.0	18278.3
55°	15050.7	15412.2	17690.7	19999.6	20998.3	20761.0	21257.6	21812.0	23406.5	23533.4	19787.3
57.5°	14242.5	14626.0	16868.6	20581.7	22692.0	23056.1	23842.4	24247.9	26079.5	26402.3	21519.7
60°	13561.2	13861.8	16192.8	20705.8	24413.4	25864.4	26628.5	27047.8	29378.8	29588.5	23425.8
62.5°	12427.4	12772.2	15050.7	19839.7	25279.5	28112.6	29696.1	29508.5	31930.5	32076.7	24595.4
65°	10603.9	10634.3	12733.5	17663.1	24385.8	29571.9	31850.5	31064.3	33149.8	33249.1	24504.4
67.5°	7914.3	8206.8	9795.7	13883.9	20598.2	28325.0	32548.4	31105.7	32380.1	32104.3	22559.6
70°	5097.9	5321.3	6639.9	9627.5	14852.2	23638.2	30234.0	28973.3	28418.8	27806.4	18465.9
72.5°	2353.1	2640.0	3944.8	5500.6	8808.1	16838.3	24543.1	23538.9	20454.8	18943.1	11737.7
75°	1026.2	1097.9	1947.6	2902.0	4129.6	8904.7	16181.8	14612.2	9238.5	8438.5	4697.8
77.5°	626.2	673.1	1020.6	1555.8	1622.1	3393.1	8717.1	6375.0	2855.1	2518.6	1274.5
80°	424.9	477.2	742.0	813.8	554.4	946.2	3271.7	1702.0	576.5	551.7	273.1
82.5°	206.9	262.1	549.0	455.2	240.0	303.4	951.7	364.1	168.3	157.2	96.5
85°	30.4	52.4	309.0	297.9	107.6	71.7	168.3	91.1	57.9	55.2	44.2
87.5°	0.0	0.0	104.8	46.9	11.0	11.0	19.3	19.3	22.1	19.3	22.1
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°	7147.5	7147.5	7147.5	7147.5	7147.5	7147.5	7147.5	7147.5	7147.5	7147.5	7147.5
2.5°	7202.7	7216.4	7164.0	7089.5	7009.5	6929.6	6816.4	6714.4	6653.7	6689.6	6601.2
5°	7332.2	7321.3	7183.3	6957.1	6656.4	6295.1	5936.5	5630.2	5531.0	5382.0	5365.4
7.5°	7511.6	7481.3	7188.8	6670.2	5991.6	5313.0	4650.9	4212.3	3961.3	3748.9	3754.4
10°	7762.6	7674.3	7125.4	6165.4	5048.2	4024.8	3180.6	2601.4	2350.3	2270.3	2206.9
12.5°	8021.9	7850.9	6948.8	5484.1	3931.0	2750.3	1933.8	1580.6	1426.2	1376.5	1371.0
15°	8253.7	7983.3	6639.9	4664.7	2857.9	1757.2	1318.6	1202.8	1183.4	1186.2	1183.4
17.5°	8482.6	8088.2	6212.3	3795.8	1942.0	1260.6	1133.8	1106.2	1114.4	1125.5	1122.7
20°	8673.0	8110.2	5666.1	2896.5	1373.8	1106.2	1064.8	1059.3	1067.5	1075.8	1075.8
22.5°	8879.8	8126.8	5017.9	2005.5	1122.7	1028.9	1006.9	1006.9	1017.9	1028.9	1031.7
25°	9034.3	8035.7	4242.7	1439.9	990.3	954.5	943.4	946.2	957.2	962.8	960.0
27.5°	9059.2	7779.2	3420.6	1103.4	899.3	863.4	852.4	863.4	849.6	857.9	852.4
30°	9081.2	7453.7	2587.5	929.7	816.5	761.4	744.8	728.3	717.2	703.4	700.7
32.5°	9150.2	7070.3	1889.6	835.9	739.3	678.6	640.0	593.1	557.3	546.2	543.4
35°	9180.5	6609.5	1387.6	761.4	670.3	604.2	535.2	468.9	416.6	397.2	411.0
37.5°	9296.4	6162.7	1075.8	706.2	609.6	526.9	438.6	355.9	306.2	295.2	300.7
40°	9533.7	5677.1	902.0	659.3	557.3	455.2	347.6	267.6	234.5	223.5	220.6
42.5°	9914.3	5194.4	802.7	615.1	504.8	383.4	273.1	209.7	182.0	173.8	173.8
45°	10377.7	4731.0	733.7	568.3	449.7	309.0	215.2	168.3	151.7	146.2	146.2
47.5°	10987.4	4325.4	675.9	521.4	389.0	245.5	173.8	146.2	135.1	138.0	140.7
50°	11605.3	4024.8	612.4	468.9	320.0	201.4	148.9	129.7	126.9	129.7	129.7
52.5°	12071.5	3848.2	526.9	397.2	251.0	168.3	132.4	121.4	118.6	113.1	113.1
55°	12700.5	3809.6	419.3	322.8	198.6	140.7	118.6	110.3	102.1	96.5	93.8
57.5°	13508.7	3853.7	322.8	251.0	154.5	115.9	104.8	91.1	80.0	69.0	69.0
60°	14010.8	3754.4	251.0	193.1	113.1	93.8	80.0	66.2	52.4	44.2	41.3
62.5°	13850.8	3335.1	198.6	143.4	80.0	69.0	52.4	44.2	30.4	22.1	19.3
65°	13026.0	2692.3	160.0	99.3	57.9	41.3	27.6	27.6	13.8	2.7	0.0
67.5°	11401.2	1994.5	126.9	66.2	33.1	19.3	13.8	8.3	0.0	0.0	0.0
70°	9279.8	1439.9	99.3	41.3	19.3	13.8	5.5	2.7	0.0	0.0	0.0
72.5°	5892.3	824.8	77.2	24.8	13.8	5.5	0.0	0.0	0.0	0.0	0.0
75°	2278.6	322.8	52.4	16.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	645.5	151.7	30.4	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	168.3	66.2	16.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	80.0	27.6	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	46.9	11.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.1	2.7	0.0	0.0	0.0	0.0	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)