

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: P459183

Luminaire Tested: **GALN-SA6D-735-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459183
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6D-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35012 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

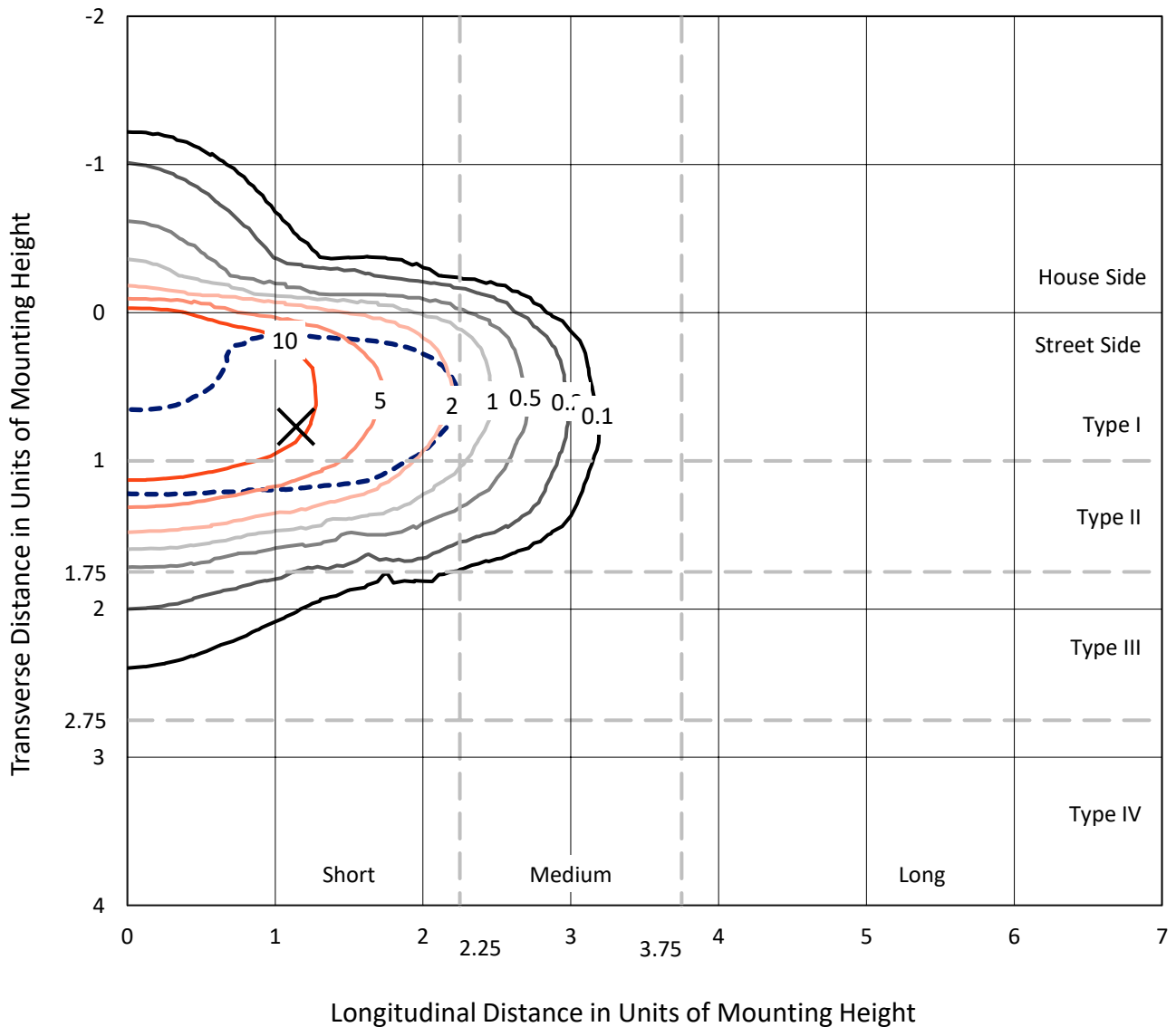
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

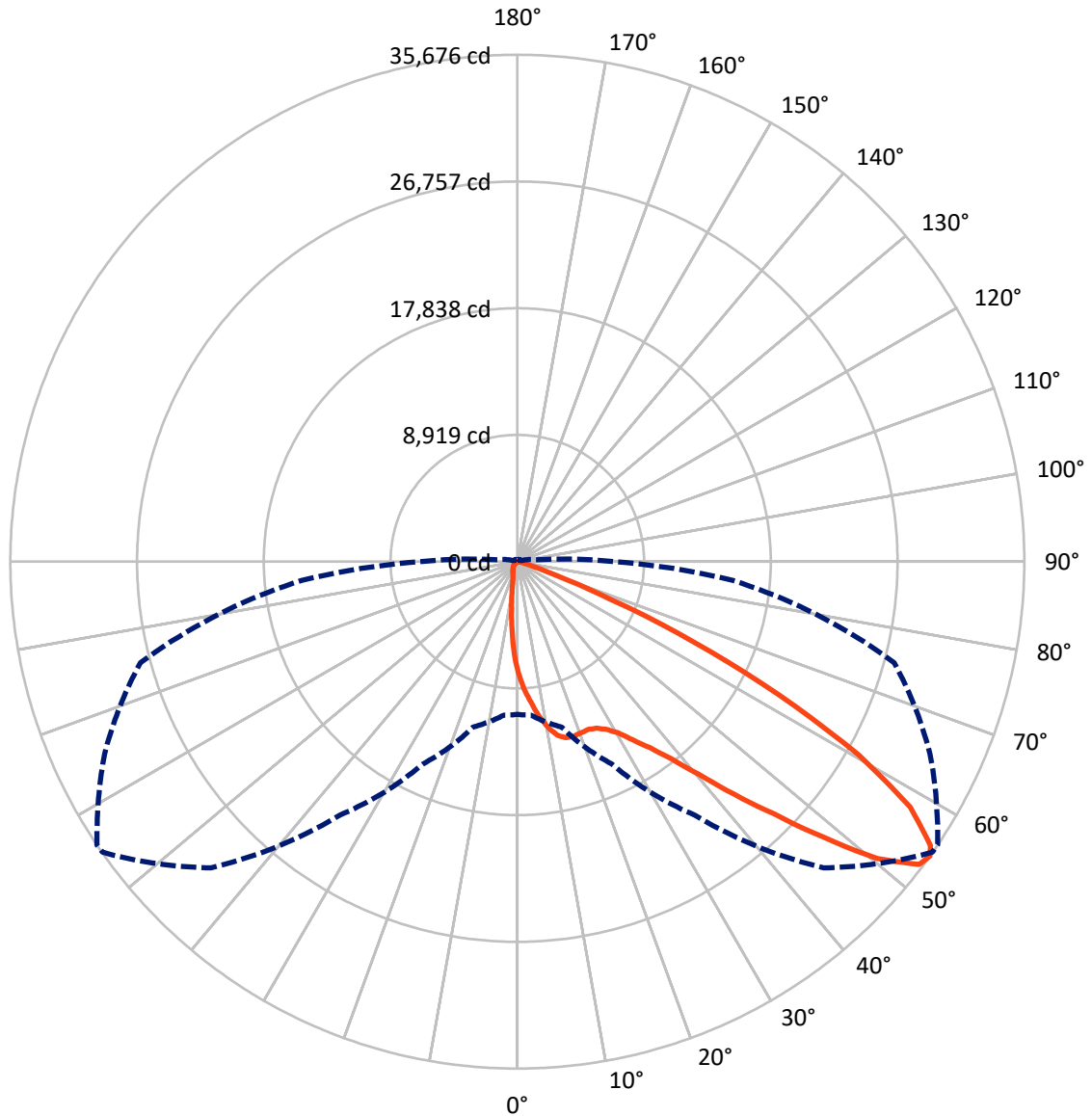
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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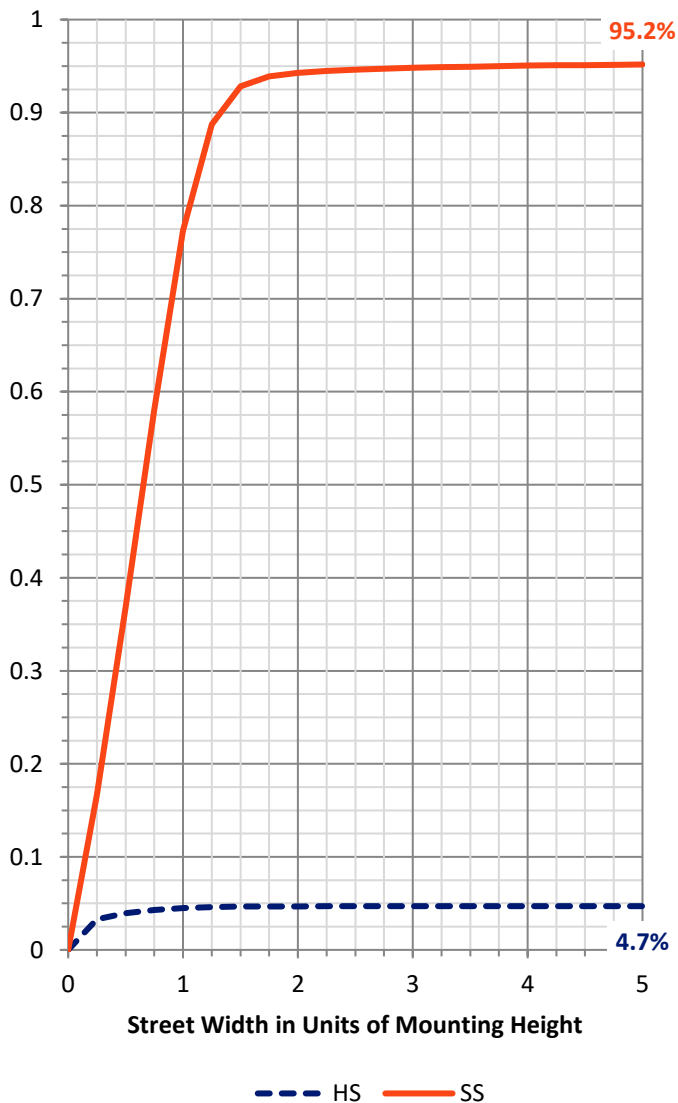
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1655.6	0.0	1655.6
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	33356.4	0.0	33356.4
	% Fixture	95.3	0.0	95.3
Total	Lumens	35012.0	0.0	35012.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	687.4	2.0
10°-20°	1858.2	5.3
20°-30°	3218.2	9.2
30°-40°	5555.2	15.9
40°-50°	9455.1	27.0
50°-60°	9357.0	26.7
60°-70°	4270.7	12.2
70°-80°	548.5	1.6
80°-90°	61.8	0.2
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°	35012.0	100.0
0°-180°	35012.0	100.0



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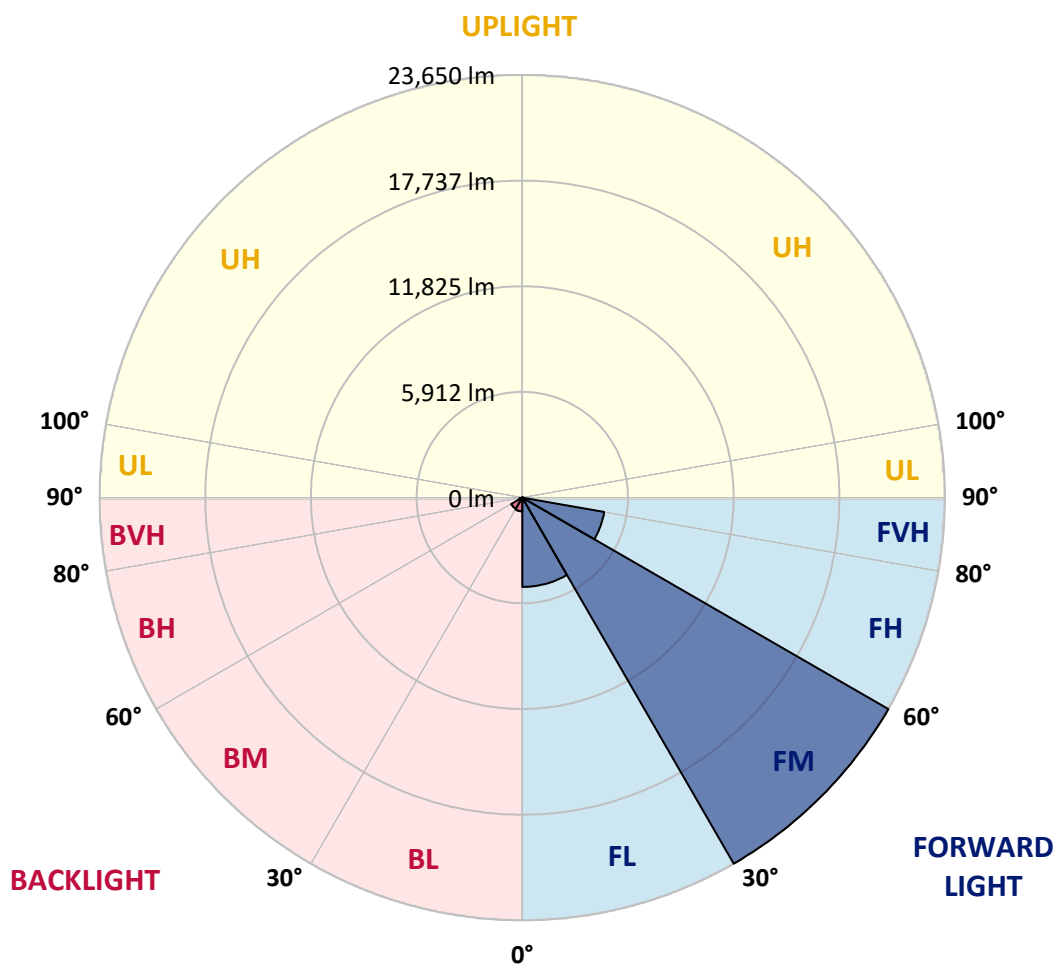
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4998.1	14.3			
FM	(30°-60°)	23649.7	67.5			
FH	(60°-80°)	4653.4	13.3			G2/5000
FVH	(80°-90°)	55.2	0.2			G1/100
BL	(0°-30°)	765.7	2.2	B2/1000		
BM	(30°-60°)	717.5	2.0	B1/1000		
BH	(60°-80°)	165.8	0.5	B1/500		G1/500
BVH	(80°-90°)	6.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7778.7	7778.7	7778.7	7778.7	7778.7	7778.7	7778.7	7778.7	7778.7	7778.7	7778.7
2.5°	9885.7	9817.2	9722.7	9649.5	9477.1	9229.0	8966.8	8966.8	8714.1	8362.1	8003.1
5°	11402.2	11357.4	11265.2	11076.3	10882.6	10535.3	10008.6	9916.4	9465.3	8827.5	8156.6
7.5°	12018.8	12040.0	12044.8	11995.2	11903.0	11560.5	11038.5	10974.7	10254.2	9399.1	8357.4
10°	11428.2	11532.2	11633.7	11839.2	12129.8	12212.5	11917.2	11851.1	11142.4	9977.8	8574.7
12.5°	10549.5	10606.2	10662.9	10986.5	11570.0	12238.5	12547.9	12545.5	11945.5	10554.2	8851.1
15°	10140.8	10190.4	10195.2	10339.3	10844.8	11818.0	12817.2	12852.6	12729.8	11265.2	9148.7
17.5°	10225.9	10266.0	10233.0	10268.4	10533.0	11355.0	12786.5	12904.6	13365.2	11947.9	9418.0
20°	10781.0	10858.9	10731.4	10632.2	10712.5	11232.2	12682.5	12847.9	13814.0	12614.0	9663.7
22.5°	11777.8	11820.4	11659.7	11388.1	11246.3	11489.6	12654.2	12817.2	14196.7	13159.7	9805.4
25°	12885.7	12871.5	12694.4	12389.6	12092.0	12009.3	12840.8	12987.3	14513.2	13651.0	9847.9
27.5°	13993.6	14036.1	13738.4	13360.5	13003.8	12788.8	13258.9	13367.6	14869.9	14210.9	9899.9
30°	15280.9	15212.4	14919.5	14487.3	14078.6	13778.6	13932.1	13962.8	15361.3	14952.6	10036.9
32.5°	16955.7	16766.8	16438.4	15682.5	15389.6	14881.7	14919.5	14957.3	15958.9	15687.2	10202.3
35°	19228.1	19218.7	18576.2	17558.1	16844.7	16214.0	16048.7	16079.4	16863.6	16778.6	10568.4
37.5°	21963.6	22001.3	21269.1	20243.9	18930.5	17928.9	17588.8	17593.5	18238.4	18285.6	11125.9
40°	24191.1	24290.3	23853.3	23161.2	21864.3	20298.2	19726.6	19674.6	20170.7	20111.6	11921.9
42.5°	25150.1	25242.3	25405.2	25646.2	24932.8	23640.7	22291.9	22362.8	22513.9	22100.6	12814.8
45°	24680.1	24826.5	25466.7	26954.8	27625.7	27191.1	25582.4	25334.4	24694.2	24262.0	13712.5
47.5°	22721.8	23078.5	24148.6	26626.5	28974.5	30443.8	29295.8	28967.4	26876.9	25839.9	14284.1
50°	19502.2	19523.4	21014.0	24181.6	28275.3	32496.5	33087.1	32841.4	28910.7	26725.7	14572.3
52.5°	14137.6	14603.0	15968.3	19636.8	25247.0	32184.7	35503.6	35402.0	31008.3	27179.2	14988.0
54°	10747.9	10837.7	12051.8	15692.0	21767.5	30472.1	35652.4	35676.0	32050.1	27453.3	15233.7
55°	8810.9	8596.0	9871.6	13367.6	19393.5	28958.0	35165.8	35279.2	32517.8	27595.0	15415.6
57.5°	4176.3	4178.7	5154.3	7051.1	12146.3	22485.6	32191.8	32593.4	32569.7	27838.3	15975.4
60°	2114.2	2128.3	2343.3	3255.1	5999.9	14947.9	26617.0	27573.7	30063.5	27873.7	16159.7
62.5°	1478.7	1462.2	1426.8	1566.1	2525.2	7596.8	19816.3	20647.8	25542.3	26524.9	15573.9
65°	1266.1	1230.7	1131.5	1110.2	1275.6	3026.0	12342.4	13698.3	19502.2	22967.5	13906.2
67.5°	1081.9	1067.7	977.9	923.6	902.4	1318.1	6368.4	7081.8	13329.8	16509.3	10533.0
70°	918.9	911.8	857.5	789.0	729.9	789.0	2362.2	2926.7	7429.1	8888.9	4970.0
72.5°	746.4	753.5	763.0	675.6	614.2	559.8	1008.7	1174.0	3108.6	3177.1	1738.6
75°	654.3	647.2	647.2	588.2	512.6	415.7	555.1	597.6	952.0	883.5	403.9
77.5°	460.6	444.1	519.7	484.2	427.6	295.3	316.5	335.4	394.5	337.8	189.0
80°	318.9	318.9	333.1	434.6	385.0	215.0	193.7	207.9	233.9	200.8	108.7
82.5°	179.5	184.3	217.3	231.5	224.4	144.1	127.6	129.9	155.9	137.0	68.5
85°	21.3	35.4	125.2	122.8	92.1	63.8	70.9	73.2	96.8	85.0	40.2
87.5°	2.4	4.7	26.0	33.1	23.6	26.0	26.0	26.0	33.1	37.8	28.3
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°	7778.7	7778.7	7778.7	7778.7	7778.7	7778.7	7778.7	7778.7	7778.7	7778.7	7778.7
2.5°	7809.4	7629.8	7202.3	6706.2	6389.7	5874.7	5440.1	5125.9	5048.0	4896.8	4941.7
5°	7799.9	7426.7	6555.1	5633.8	4651.1	3918.9	3373.2	2943.3	2754.3	2629.1	2541.7
7.5°	7804.6	7221.2	5822.8	4355.9	3181.9	2463.8	1958.2	1696.0	1521.2	1448.0	1457.5
10°	7818.8	6989.7	4972.4	3226.7	2147.2	1592.1	1282.7	1157.5	1098.4	1089.0	1086.6
12.5°	7851.9	6736.9	4159.8	2395.3	1502.3	1157.5	1039.4	996.8	977.9	977.9	970.9
15°	7887.3	6458.2	3484.2	1781.1	1157.5	994.5	940.1	918.9	907.1	907.1	904.7
17.5°	7887.3	6136.9	2853.5	1381.9	996.8	914.2	871.6	843.3	833.8	833.8	831.5
20°	7837.7	5763.7	2293.7	1112.6	904.7	838.6	796.1	765.3	753.5	748.8	746.4
22.5°	7665.3	5265.3	1826.0	956.7	829.1	772.4	718.1	682.7	673.2	668.5	670.9
25°	7358.2	4703.1	1445.7	840.9	760.6	692.1	644.9	618.9	609.4	609.4	611.8
27.5°	7041.7	4114.9	1145.7	753.5	677.9	616.5	578.7	562.2	559.8	566.9	569.3
30°	6748.7	3524.4	928.3	682.7	604.7	552.8	526.8	522.0	522.0	524.4	526.8
32.5°	6422.8	3007.1	777.2	621.3	545.7	500.8	486.6	486.6	491.3	491.3	496.1
35°	6217.3	2563.0	682.7	562.2	500.8	463.0	453.5	455.9	463.0	472.4	477.2
37.5°	6106.2	2208.6	621.3	515.0	458.3	432.3	422.8	427.6	444.1	460.6	463.0
40°	6115.7	1941.7	571.6	474.8	425.2	396.8	389.8	403.9	420.5	437.0	439.4
42.5°	6219.6	1743.3	524.4	427.6	396.8	356.7	354.3	368.5	375.6	392.1	394.5
45°	6342.5	1599.2	474.8	377.9	344.9	309.4	311.8	323.6	333.1	359.1	363.8
47.5°	6380.2	1500.0	418.1	321.3	283.5	271.7	274.0	281.1	300.0	323.6	326.0
50°	6422.8	1438.6	363.8	271.7	240.9	238.6	240.9	245.7	257.5	266.9	264.6
52.5°	6604.7	1436.2	318.9	236.2	205.5	210.2	212.6	210.2	200.8	186.6	181.9
54°	6774.7	1443.3	297.6	219.7	189.0	196.1	193.7	181.9	158.3	144.1	137.0
55°	6911.7	1450.4	285.8	207.9	179.5	181.9	184.3	160.6	129.9	115.7	111.0
57.5°	7181.0	1433.8	257.5	181.9	158.3	148.8	146.5	106.3	70.9	61.4	56.7
60°	7046.4	1294.5	233.9	155.9	134.6	120.5	99.2	59.1	35.4	26.0	26.0
62.5°	6517.3	1098.4	207.9	127.6	111.0	92.1	52.0	33.1	16.5	9.4	7.1
65°	5829.9	923.6	186.6	101.6	87.4	59.1	28.3	21.3	7.1	0.0	0.0
67.5°	4334.6	685.0	158.3	80.3	66.1	37.8	18.9	11.8	2.4	0.0	0.0
70°	2007.9	418.1	134.6	61.4	47.2	28.3	14.2	7.1	0.0	0.0	0.0
72.5°	576.4	262.2	111.0	44.9	33.1	23.6	11.8	4.7	2.4	0.0	0.0
75°	200.8	210.2	82.7	33.1	26.0	16.5	9.4	4.7	2.4	0.0	0.0
77.5°	120.5	170.1	52.0	28.3	21.3	14.2	9.4	4.7	2.4	2.4	0.0
80°	68.5	113.4	33.1	23.6	18.9	11.8	7.1	4.7	2.4	2.4	0.0
82.5°	37.8	54.3	26.0	21.3	16.5	11.8	7.1	4.7	2.4	2.4	2.4
85°	30.7	28.3	21.3	18.9	14.2	9.4	7.1	2.4	0.0	0.0	0.0
87.5°	23.6	18.9	18.9	18.9	14.2	9.4	7.1	2.4	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)