

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: P651594

Luminaire Tested: **GALN-SA8D-840-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651594
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37829.8 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

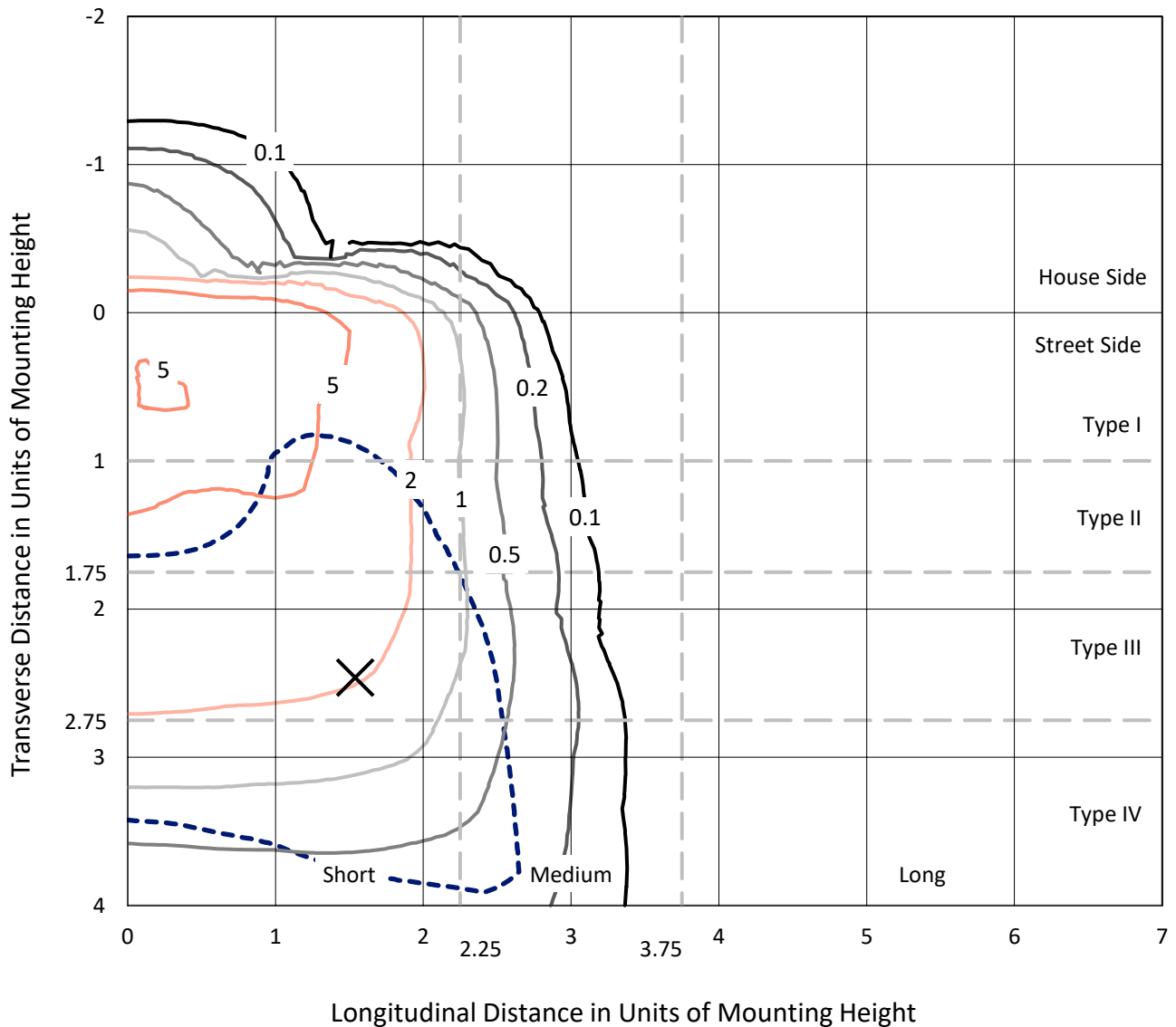
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

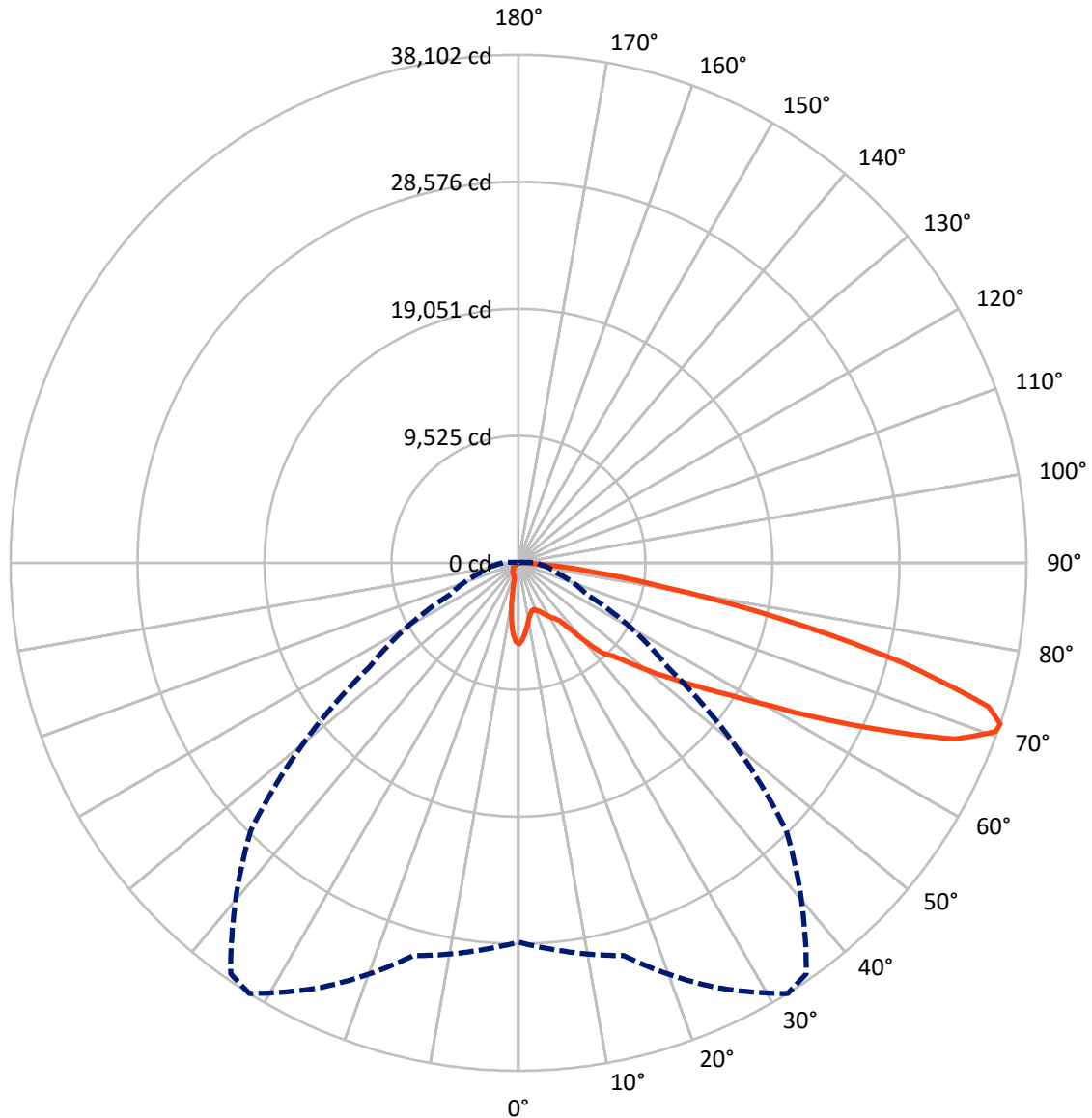
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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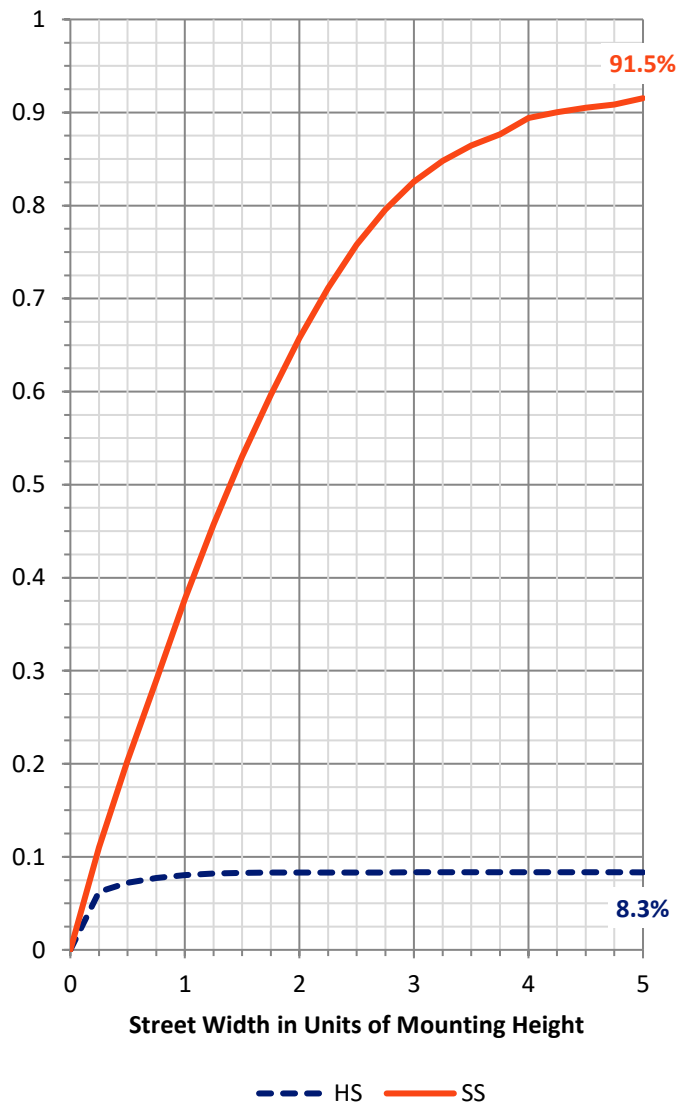
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3168.6	0.0	3168.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	34661.2	0.0	34661.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	37829.8	0.0	37829.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.7	1.3
10°-20°	1073.6	2.8
20°-30°	1670.2	4.4
30°-40°	2782.6	7.4
40°-50°	5176.0	13.7
50°-60°	8310.3	22.0
60°-70°	11177.8	29.5
70°-80°	6631.9	17.5
80°-90°	512.6	1.4
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°	37829.8	100.0
0°-180°	37829.8	100.0

Coefficient of Utilization



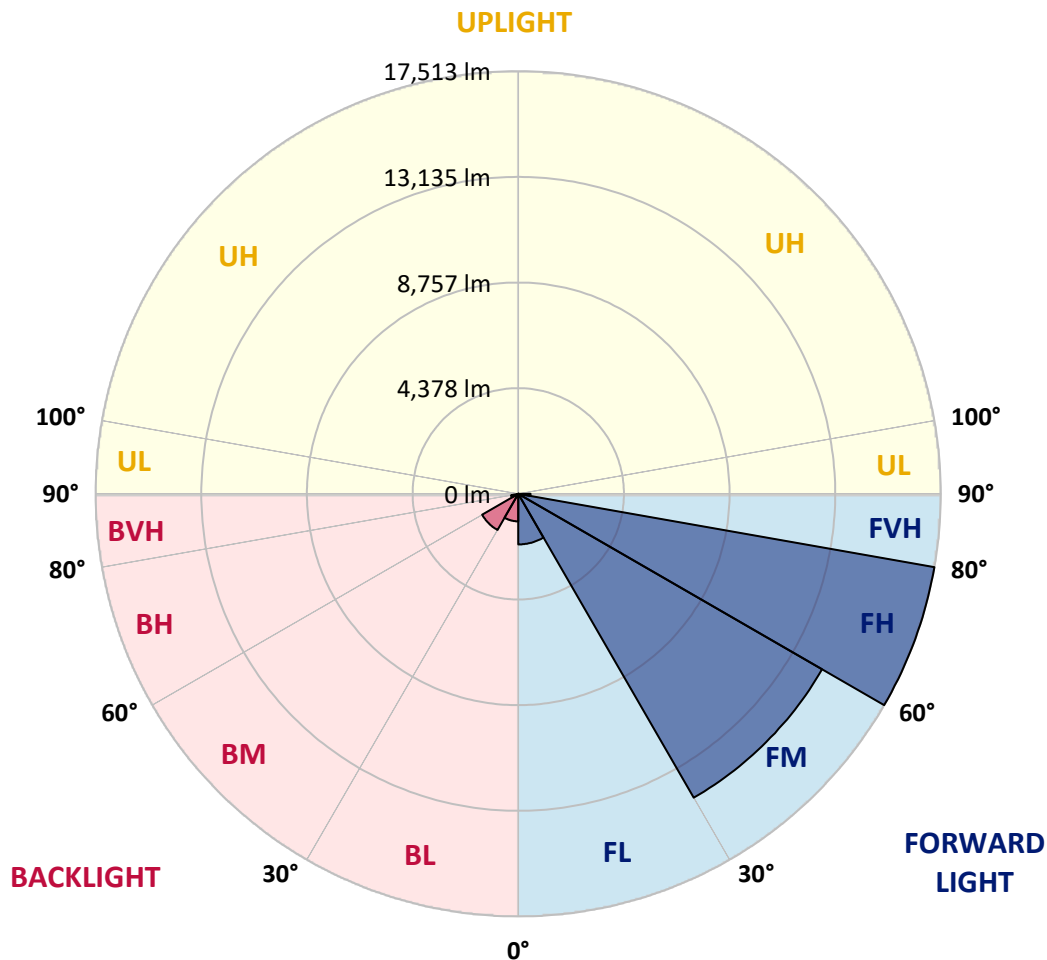
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2096.8	5.5			
FM (30°-60°)	14540.4	38.4			
FH (60°-80°)	17513.4	46.3			G5
FVH (80°-90°)	510.6	1.3			G4/750
BL (0°-30°)	1141.7	3.0	B3/2500		
BM (30°-60°)	1728.6	4.6	B2/2500		
BH (60°-80°)	296.4	0.8	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	6083.6	6083.6	6083.6	6083.6	6083.6	6083.6	6083.6	6083.6	6083.6	6083.6	6083.6
2.5°	5642.3	5700.3	5691.6	5711.9	5761.3	5781.6	5836.8	5897.8	5982.0	6040.1	6077.8
5°	5052.7	5096.3	5102.1	5203.8	5253.1	5308.3	5470.9	5648.1	5845.5	6002.3	6106.8
7.5°	4422.7	4445.9	4492.3	4625.9	4750.7	4805.9	5052.7	5360.5	5671.3	5964.5	6153.3
10°	3902.8	3929.0	4013.2	4155.5	4271.6	4344.2	4686.9	5073.1	5508.6	5944.3	6220.1
12.5°	3606.6	3621.2	3653.1	3780.9	3929.0	4007.4	4376.1	4817.5	5378.0	5952.9	6333.4
15°	3586.3	3580.5	3542.7	3595.0	3728.6	3809.9	4170.0	4643.3	5261.8	5982.0	6467.0
17.5°	3693.8	3679.2	3589.2	3589.2	3699.6	3766.3	4082.9	4550.4	5203.8	6048.8	6655.7
20°	3859.3	3836.1	3688.0	3676.3	3783.7	3853.5	4135.1	4556.2	5215.4	6173.6	6908.3
22.5°	4068.3	4042.2	3818.6	3824.4	3940.6	4010.2	4286.2	4660.7	5288.0	6327.6	7178.4
25°	4341.3	4312.2	4048.0	4036.4	4158.3	4219.4	4509.7	4846.6	5389.6	6519.2	7532.7
27.5°	4704.3	4643.3	4326.8	4309.4	4440.1	4518.4	4779.8	5096.3	5569.6	6783.5	8008.9
30°	5003.4	4936.6	4634.6	4588.2	4727.5	4788.5	5058.5	5433.2	5923.9	7245.2	8668.1
32.5°	5395.4	5296.7	4942.4	4820.4	4968.5	5046.9	5462.2	6060.4	6449.5	7733.1	9452.2
35°	6278.2	6217.2	5784.6	5357.7	5348.9	5447.7	6057.5	6693.4	6989.6	8493.8	10520.7
37.5°	7541.4	7497.9	7039.0	6467.0	6301.4	6254.9	6780.6	7390.4	7852.1	9539.2	11763.7
40°	9007.9	8906.2	8485.1	8000.2	7785.3	7648.8	7634.3	8427.1	8978.8	10959.2	13058.8
42.5°	10059.0	9873.2	9362.1	9327.3	9280.8	9138.6	8726.1	9942.9	10433.6	12486.7	14443.9
45°	11162.5	10880.9	10120.0	9989.3	9971.9	9963.2	10375.6	11737.5	12019.2	14141.9	15866.8
47.5°	12019.2	11795.5	11171.3	11113.1	11185.7	11383.2	12556.4	13642.4	13584.3	15617.1	17060.3
50°	13160.4	12991.9	12297.9	12408.3	12782.9	13105.2	15016.0	15718.7	14870.8	16778.6	17928.6
52.5°	14507.8	14197.1	13552.4	13851.5	14426.5	14963.7	17626.6	17536.5	15773.9	17652.7	18576.1
55°	15675.1	15454.5	15233.8	15544.5	16404.0	17074.8	19984.5	18898.4	16430.2	18355.4	18860.7
57.5°	17649.8	17597.5	17371.0	17687.6	18730.1	19426.9	22095.7	19955.5	16851.2	18721.3	18526.7
60°	20571.1	20486.9	20065.8	20469.4	21828.5	22923.2	24041.2	20905.1	16947.1	18579.0	17565.5
62.5°	24084.8	23797.3	23437.2	24032.5	25896.8	26378.9	25873.6	21468.4	16589.9	17446.5	15248.3
65°	27366.2	27070.0	27078.7	28333.2	30363.0	30691.1	28010.9	21384.2	15544.5	14609.4	11246.7
67.5°	29878.0	29828.7	30183.0	32630.9	35285.1	35058.6	29921.6	20123.9	12446.0	9469.6	5976.2
70°	30005.8	30101.7	31118.0	35250.3	37945.0	37585.0	29759.0	16357.5	7759.2	4355.8	2355.1
71°	28461.0	29105.6	30511.1	35168.9	38101.8	37634.3	28388.4	13700.5	5691.6	3037.4	1698.7
72.5°	24253.3	24592.9	27630.5	33098.5	36861.9	35862.9	24912.4	9603.1	3644.4	1858.5	975.7
75°	13357.9	14194.1	18503.5	25966.5	29483.1	28606.1	16235.6	4562.0	1817.8	1016.3	403.7
77.5°	6359.5	6196.9	9028.1	15442.9	19990.3	19943.9	8180.2	2026.9	1059.9	688.2	203.3
80°	1817.8	2044.3	3455.6	7341.0	11098.7	11220.6	3142.0	978.6	734.7	537.2	104.5
82.5°	548.8	560.4	1269.0	3246.5	5520.2	5203.8	1179.0	499.5	528.5	426.9	61.0
85°	95.8	119.1	374.6	1144.1	2105.3	1597.1	296.2	238.1	348.4	281.7	34.8
87.5°	5.8	8.7	124.9	130.7	185.9	107.5	52.3	34.8	75.5	75.5	20.4
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°	6083.6	6083.6	6083.6	6083.6	6083.6	6083.6	6083.6	6083.6	6083.6	6083.6	6083.6
2.5°	6104.0	6121.4	6109.8	6083.6	6040.1	5987.8	5918.1	5860.0	5810.6	5784.6	5816.4
5°	6141.7	6165.0	6106.8	5976.2	5778.8	5563.8	5319.9	5131.2	4983.1	4936.6	4919.2
7.5°	6199.8	6214.3	6057.5	5767.1	5348.9	4840.8	4396.5	4021.9	3731.5	3644.4	3516.6
10°	6275.3	6266.5	5970.3	5430.3	4695.6	3931.8	3243.7	2732.6	2346.3	2207.0	2195.3
12.5°	6391.4	6345.0	5860.0	4971.5	3917.4	2918.4	2067.6	1617.5	1373.5	1292.2	1274.8
15°	6536.7	6426.2	5685.8	4434.3	2999.7	1884.6	1274.8	1138.3	1106.4	1100.5	1094.7
17.5°	6708.0	6533.7	5456.4	3775.1	2108.2	1222.6	1065.7	1062.9	1065.7	1059.9	1057.1
20°	6940.3	6647.0	5183.4	2993.9	1393.9	1030.9	1016.3	1016.3	1019.3	1016.3	1016.3
22.5°	7187.1	6780.6	4846.6	2285.3	1051.2	978.6	975.7	981.5	987.3	984.4	984.4
25°	7492.0	6954.8	4402.3	1565.2	940.8	935.0	938.0	949.6	961.2	964.1	961.2
27.5°	7933.4	7169.7	3926.0	1077.3	862.4	868.2	897.3	926.4	943.8	946.6	946.6
30°	8429.9	7407.8	3304.6	874.1	798.5	798.5	833.4	888.6	926.4	932.2	935.0
32.5°	9068.8	7683.7	2616.4	786.9	737.6	731.8	763.7	830.5	900.2	920.6	920.6
35°	9858.7	8008.9	1945.6	731.8	694.0	679.5	696.9	752.1	842.1	900.2	906.0
37.5°	10785.0	8316.7	1422.9	682.4	653.4	633.0	644.6	688.2	760.9	847.9	871.2
40°	11641.6	8589.7	1062.9	641.8	612.8	598.2	606.9	627.2	688.2	769.5	784.1
42.5°	12576.7	8801.7	845.0	598.2	572.0	566.2	566.2	575.0	615.6	662.1	665.0
45°	13508.9	8877.2	708.5	545.9	528.5	534.3	531.4	525.6	543.0	537.2	537.2
47.5°	14173.9	8787.2	586.6	496.5	496.5	505.3	490.7	470.5	461.7	426.9	429.8
50°	14629.8	8459.0	482.1	438.5	461.7	473.3	444.3	412.3	380.4	342.6	334.0
52.5°	14818.5	7875.3	394.9	363.0	409.5	423.9	389.1	351.4	302.0	270.0	261.4
55°	14696.6	7155.1	328.2	296.2	345.6	363.0	328.2	284.6	229.4	194.5	188.7
57.5°	14159.3	6295.6	278.8	235.2	275.8	287.5	264.2	217.8	162.6	127.7	127.7
60°	13230.1	5407.0	226.5	185.9	206.2	223.6	200.3	156.8	110.3	78.4	72.6
62.5°	11345.4	4390.7	182.9	145.2	145.2	159.7	139.4	113.3	69.7	40.6	37.8
65°	8191.8	3011.3	145.2	107.5	104.5	104.5	87.1	75.5	40.6	17.4	11.6
67.5°	4451.7	1698.7	116.1	81.3	72.6	69.7	55.2	43.6	17.4	2.9	0.0
70°	1751.0	653.4	90.0	55.2	46.4	43.6	29.0	20.4	11.6	0.0	0.0
71°	1187.7	450.1	78.4	46.4	37.8	32.0	23.2	17.4	8.7	0.0	0.0
72.5°	679.5	278.8	61.0	34.8	29.0	23.2	17.4	11.6	8.7	0.0	0.0
75°	296.2	142.3	37.8	26.2	20.4	14.5	11.6	8.7	2.9	0.0	0.0
77.5°	151.0	78.4	26.2	20.4	11.6	8.7	5.8	2.9	0.0	0.0	0.0
80°	84.2	40.6	17.4	11.6	8.7	5.8	2.9	2.9	0.0	0.0	0.0
82.5°	46.4	23.2	8.7	5.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	29.0	14.5	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.5	5.8	0.0	0.0	0.0	0.0	2.9	2.9	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)