

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: P651595

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651595
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52419.5 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

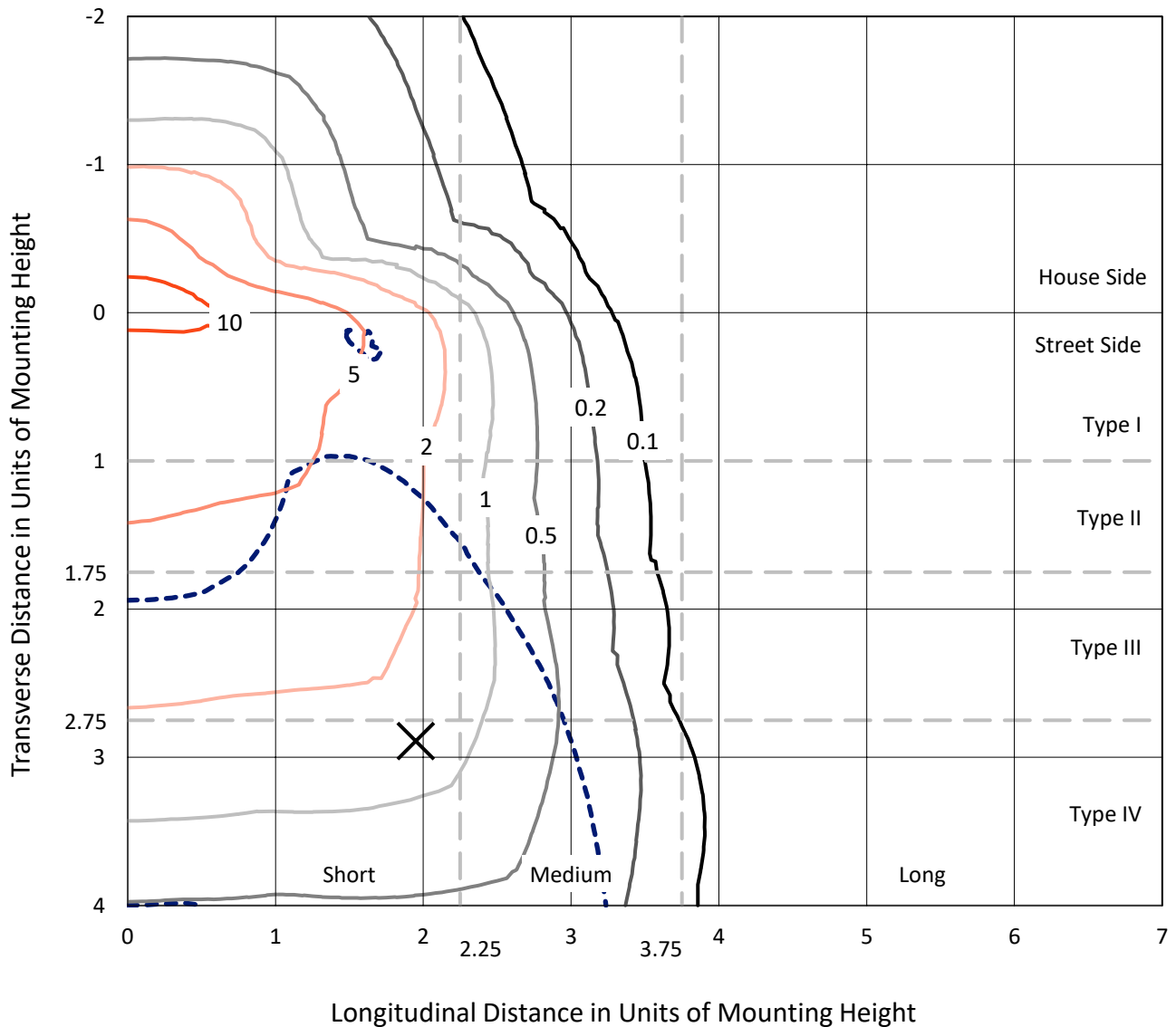
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

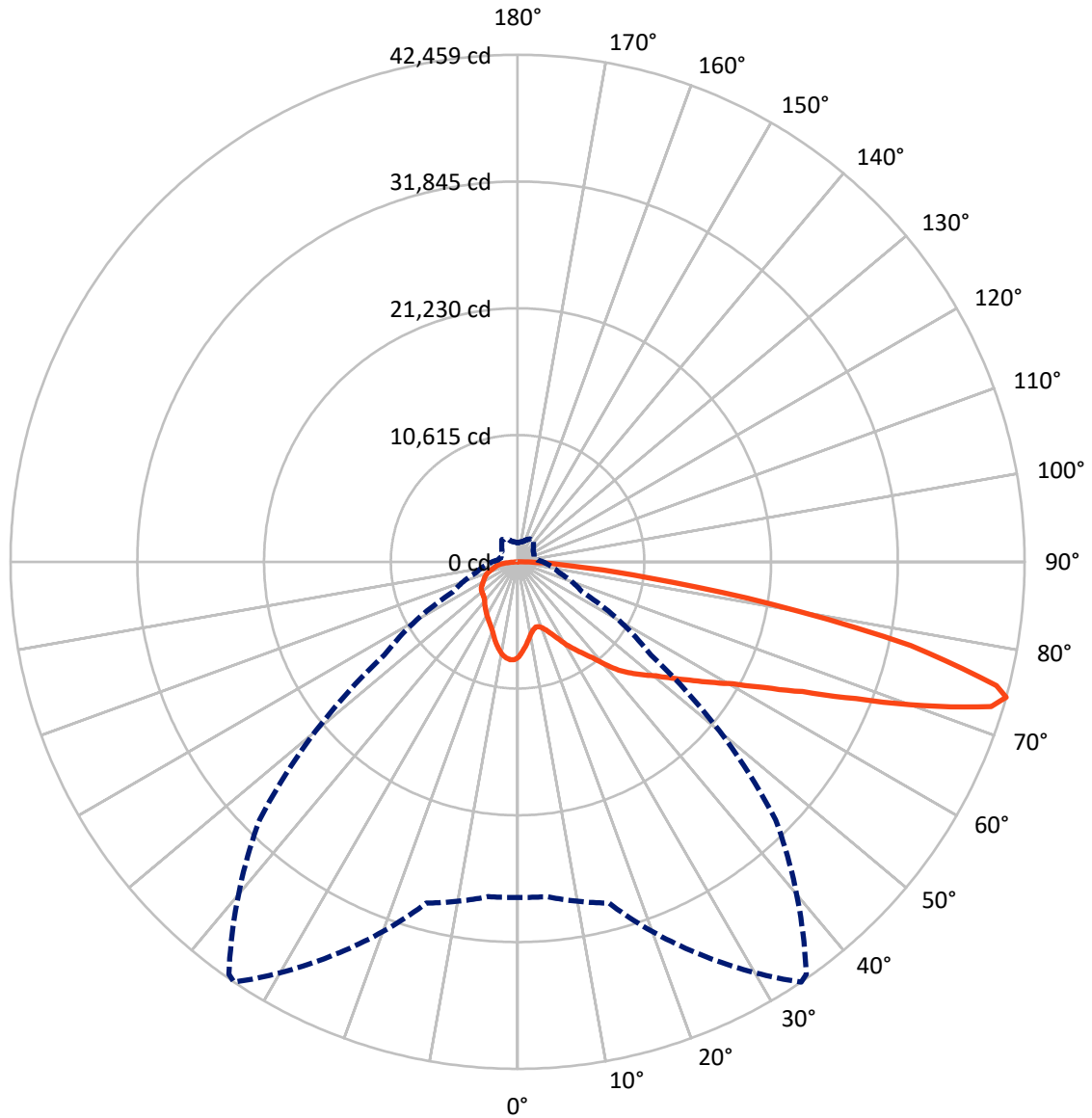
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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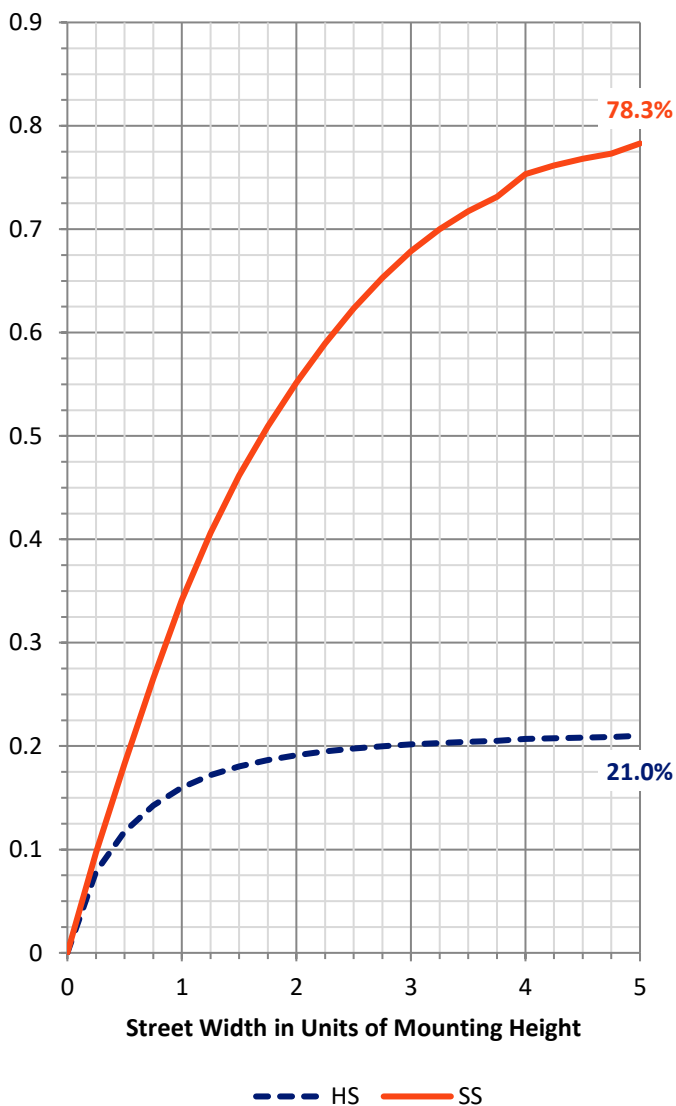
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11155.2	0.0	11155.2
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	41264.3	0.0	41264.3
	% Fixture	78.7	0.0	78.7
Total	Lumens	52419.5	0.0	52419.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	727.9	1.4
10°-20°	1992.5	3.8
20°-30°	3285.2	6.3
30°-40°	4920.8	9.4
40°-50°	7153.5	13.6
50°-60°	9991.8	19.1
60°-70°	12509.2	23.9
70°-80°	10344.1	19.7
80°-90°	1494.6	2.9
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°	52419.5	100.0
0°-180°	52419.5	100.0

Coefficient of Utilization

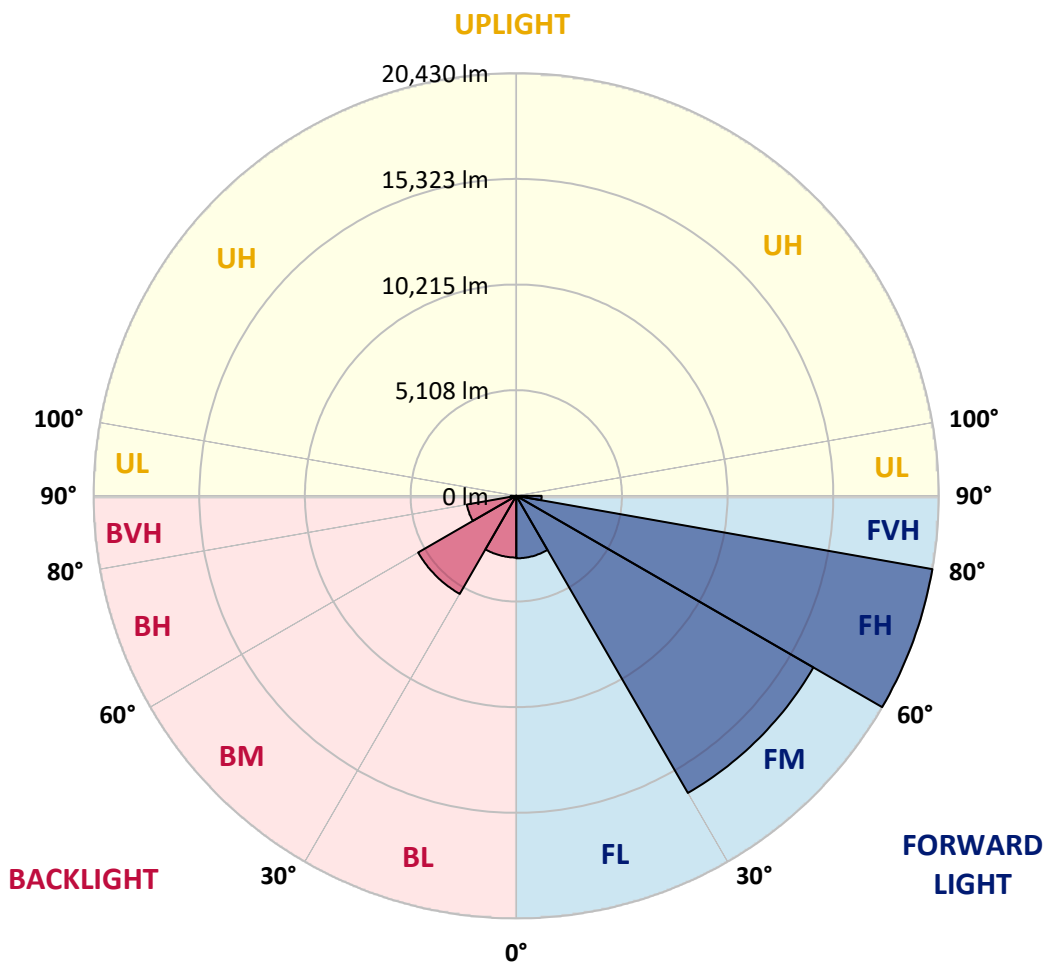


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3021.7	5.8			
FM (30°-60°)	16587.7	31.6			
FH (60°-80°)	20430.4	39.0			G5
FVH (80°-90°)	1224.5	2.3			G5
BL (0°-30°)	2983.8	5.7	B4/5000		
BM (30°-60°)	5478.4	10.5	B4/8500		
BH (60°-80°)	2422.9	4.6	B3/2500		G3/2500
BVH (80°-90°)	270.2	0.5			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°	34°	35°	45°	55°	65°	75°	85°
0°	8003.5	8003.5	8003.5	8003.5	8003.5	8003.5	8003.5	8003.5	8003.5	8003.5	8003.5
2.5°	7396.5	7434.3	7454.5	7527.2	7544.6	7567.8	7628.8	7710.1	7814.7	7907.6	7988.9
5°	6780.8	6838.9	6873.7	6937.7	7062.5	7074.2	7236.8	7422.7	7634.6	7832.1	7994.7
7.5°	6197.2	6261.0	6290.1	6406.2	6571.7	6597.9	6836.0	7129.3	7483.6	7782.7	8032.5
10°	5758.7	5790.5	5854.5	5941.6	6139.0	6156.5	6467.2	6859.3	7318.0	7759.5	8096.4
12.5°	5520.5	5537.9	5552.5	5645.4	5839.9	5866.1	6191.4	6635.7	7187.4	7776.9	8200.9
15°	5555.4	5561.2	5497.3	5514.7	5671.5	5709.3	6031.6	6487.6	7106.1	7820.5	8357.7
17.5°	5848.7	5828.3	5671.5	5590.2	5700.6	5718.0	5999.7	6429.4	7068.4	7901.8	8520.3
20°	6310.4	6281.3	6011.3	5831.2	5895.2	5909.6	6104.2	6473.0	7106.1	8035.3	8773.0
22.5°	6885.4	6873.7	6464.3	6246.5	6243.6	6243.6	6345.3	6629.9	7219.3	8218.3	9037.2
25°	7689.8	7628.8	7094.5	6812.8	6734.4	6728.6	6717.0	6888.3	7364.6	8412.9	9350.9
27.5°	8514.5	8410.0	7933.7	7501.0	7332.6	7312.2	7236.8	7254.2	7550.4	8633.6	9708.1
30°	9255.0	9188.3	8741.0	8261.9	8061.5	8015.1	7806.0	7710.1	7861.2	9031.4	10277.3
32.5°	9821.4	9780.7	9432.2	8996.6	8700.4	8691.7	8386.8	8308.3	8346.1	9513.5	10927.8
35°	10280.1	10294.7	10117.6	9740.0	9400.3	9350.9	9147.6	9048.9	8938.5	10210.5	11746.7
37.5°	10907.4	10939.4	10927.8	10602.5	10187.2	10198.9	10152.4	9989.7	9696.5	10988.8	12655.6
40°	11598.6	11621.8	11618.9	11494.0	11276.2	11287.8	11270.4	11084.5	10646.1	11979.0	13666.2
42.5°	12554.0	12443.6	12156.2	12281.0	12408.8	12464.0	12583.0	12405.9	11804.8	13036.1	14615.8
45°	13622.7	13413.6	12763.1	12821.1	13294.5	13399.1	14055.4	13811.4	13062.2	14249.9	15733.8
47.5°	14296.4	14090.2	13541.4	13529.8	14157.0	14258.7	15420.2	15330.3	14206.3	15559.6	17098.8
50°	14897.6	14868.5	14249.9	14398.0	15010.8	15161.8	16907.1	16822.9	15347.7	17104.6	18585.6
52.5°	15789.0	15553.8	15060.1	15365.1	16175.3	16372.8	18382.3	18135.5	16396.0	18469.5	20028.9
55°	16189.8	16134.6	16105.6	16369.8	17482.1	17624.4	19816.9	19250.7	17290.5	19625.2	21126.6
57.5°	17261.4	17159.8	17447.2	17627.3	19021.2	19239.0	21315.4	20415.1	18074.5	20542.9	21661.0
60°	18649.5	18594.3	18858.6	19183.8	20740.4	21071.4	23022.9	21408.3	18704.7	21004.6	21367.6
62.5°	20722.9	20717.1	20667.7	21364.8	23176.9	23481.7	24983.1	22375.3	18803.4	20659.1	19851.7
65°	23696.6	23592.1	23162.3	23923.2	26208.6	26565.8	27024.6	22915.5	18208.1	18884.7	16715.5
67.5°	26806.8	26801.0	26452.6	27439.9	30561.7	30930.6	29577.2	22796.4	16555.7	15298.3	11871.6
70°	29385.5	29260.7	29705.0	32336.0	36122.9	36549.8	31810.4	21393.8	13187.0	10103.0	7053.8
72.5°	30004.1	30009.9	30933.4	36111.3	41463.3	41530.1	32614.8	17339.8	8825.3	5572.8	3528.3
74°	28099.1	28148.4	29580.2	36300.0	42459.4	42157.4	30558.8	13628.5	5967.7	3638.8	2543.9
75°	25648.1	25337.4	27407.9	35042.5	41425.6	41100.3	28151.4	10936.4	4553.5	2906.9	2227.4
77.5°	13712.7	14029.2	17223.6	26150.6	33654.5	33279.9	19088.0	5244.6	2459.7	2024.1	1603.0
80°	4881.6	5384.0	7567.8	13683.7	21576.7	21692.9	9109.9	2404.5	1730.8	1492.7	1132.6
82.5°	1992.2	2047.3	3249.5	6072.3	10956.8	11061.3	3720.0	1428.8	1237.1	1028.0	676.7
85°	778.3	801.5	1437.5	2729.8	4675.5	4980.4	1286.5	755.0	760.9	589.5	345.6
87.5°	261.4	296.2	589.5	909.0	1588.5	1556.5	374.6	223.6	273.0	255.6	107.5
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°	8003.5	8003.5	8003.5	8003.5	8003.5	8003.5	8003.5	8003.5	8003.5	8003.5	8003.5
2.5°	8029.5	8084.7	8122.5	8163.2	8200.9	8212.5	8203.8	8229.9	8232.8	8235.7	8238.7
5°	8076.0	8151.6	8224.1	8264.8	8282.2	8267.7	8218.3	8192.2	8169.0	8151.6	8157.4
7.5°	8140.0	8247.4	8314.1	8331.6	8285.1	8218.3	8096.4	8000.5	7939.5	7898.8	7896.0
10°	8238.7	8343.2	8398.4	8349.0	8221.2	8058.6	7867.0	7686.9	7550.4	7509.7	7506.9
12.5°	8363.5	8482.6	8479.7	8334.5	8110.9	7820.5	7509.7	7300.6	7114.8	7021.8	7059.6
15°	8526.1	8616.1	8531.9	8270.6	7916.3	7518.5	7135.1	6850.5	6641.5	6542.7	6548.5
17.5°	8714.9	8793.3	8569.7	8157.4	7643.3	7132.2	6687.9	6417.8	6252.3	6179.8	6173.9
20°	8950.1	8973.4	8569.7	7959.9	7292.0	6682.1	6258.1	6069.3	5976.4	5938.7	5950.3
22.5°	9202.8	9156.3	8523.3	7681.1	6830.2	6211.6	5927.0	5842.8	5796.4	5790.5	5796.4
25°	9487.4	9356.7	8427.4	7303.6	6348.1	5805.1	5639.6	5654.1	5662.8	5662.8	5683.1
27.5°	9835.8	9574.4	8267.7	6827.3	5784.7	5427.6	5381.1	5482.7	5529.2	5537.9	5552.5
30°	10294.7	9812.6	8003.5	6232.0	5305.6	5087.8	5169.1	5305.6	5357.8	5389.8	5384.0
32.5°	10840.7	10074.0	7646.2	5636.6	4919.3	4849.7	4948.4	5087.8	5145.9	5163.3	5140.1
35°	11482.4	10370.2	7175.7	5079.1	4582.5	4623.1	4739.3	4782.9	4835.2	4835.2	4846.8
37.5°	12173.6	10608.3	6600.8	4568.0	4321.1	4469.2	4553.5	4512.8	4489.6	4460.6	4475.0
40°	12876.3	10785.5	5854.5	4062.7	4059.8	4309.5	4332.7	4216.6	4123.7	4094.7	4080.1
42.5°	13489.1	10895.8	5180.7	3670.6	3812.9	4152.7	4170.2	3984.3	3836.2	3749.1	3720.0
45°	14212.1	11023.6	4521.6	3345.4	3583.5	4027.9	4071.4	3821.7	3603.9	3420.9	3374.4
47.5°	15202.4	11314.0	4001.7	3092.8	3418.0	3949.4	4010.4	3688.1	3400.6	3162.5	3124.7
50°	16320.4	11711.9	3598.1	2921.5	3290.2	3879.8	3955.2	3551.6	3211.9	2947.5	2918.5
52.5°	17345.6	11926.7	3249.5	2767.5	3165.4	3752.0	3882.6	3452.9	3026.0	2732.7	2706.5
55°	17906.1	11578.2	2906.9	2616.5	2994.0	3586.4	3781.0	3316.4	2845.9	2619.4	2581.6
57.5°	17981.6	10858.1	2596.2	2453.9	2814.0	3383.2	3592.2	3150.8	2729.8	2541.0	2509.0
60°	17397.9	9783.6	2355.1	2320.3	2631.0	3153.8	3380.2	3005.6	2610.7	2453.9	2421.9
62.5°	15945.9	8616.1	2186.7	2198.3	2445.2	2912.7	3223.5	2866.2	2497.4	2358.1	2329.0
65°	13448.4	7111.9	2024.1	2073.5	2279.6	2723.9	3081.2	2750.1	2384.2	2285.4	2259.3
67.5°	9342.2	5134.3	1890.5	1942.8	2122.9	2532.3	2915.6	2625.2	2256.4	2204.2	2163.5
70°	5172.1	3159.6	1733.7	1794.7	1960.2	2317.4	2729.8	2436.5	2070.5	2047.3	1989.2
72.5°	2718.1	2012.5	1556.5	1623.3	1739.5	2041.5	2445.2	2230.2	1887.6	1788.9	1713.4
74°	2122.9	1649.5	1437.5	1507.2	1585.6	1878.9	2276.8	2082.1	1756.9	1640.8	1582.7
75°	1849.9	1469.4	1335.8	1425.8	1495.6	1768.5	2146.1	1977.6	1684.4	1573.9	1521.7
77.5°	1306.8	1100.6	1091.9	1199.4	1237.1	1550.7	1934.0	1800.5	1501.4	1385.2	1335.8
80°	917.7	824.8	865.4	932.2	984.5	1370.7	1794.7	1556.5	1231.3	1094.8	1077.4
82.5°	598.2	540.2	618.6	679.5	696.9	1010.6	1449.1	1181.9	897.3	728.9	676.7
85°	275.8	270.0	354.3	345.6	342.7	493.7	859.6	691.1	516.9	386.3	363.0
87.5°	69.7	66.8	87.1	72.6	87.1	75.5	78.4	20.4	2.9	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)