

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: P534264

Luminaire Tested: **GALN-SA9D-730-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534264
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-730-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54134 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

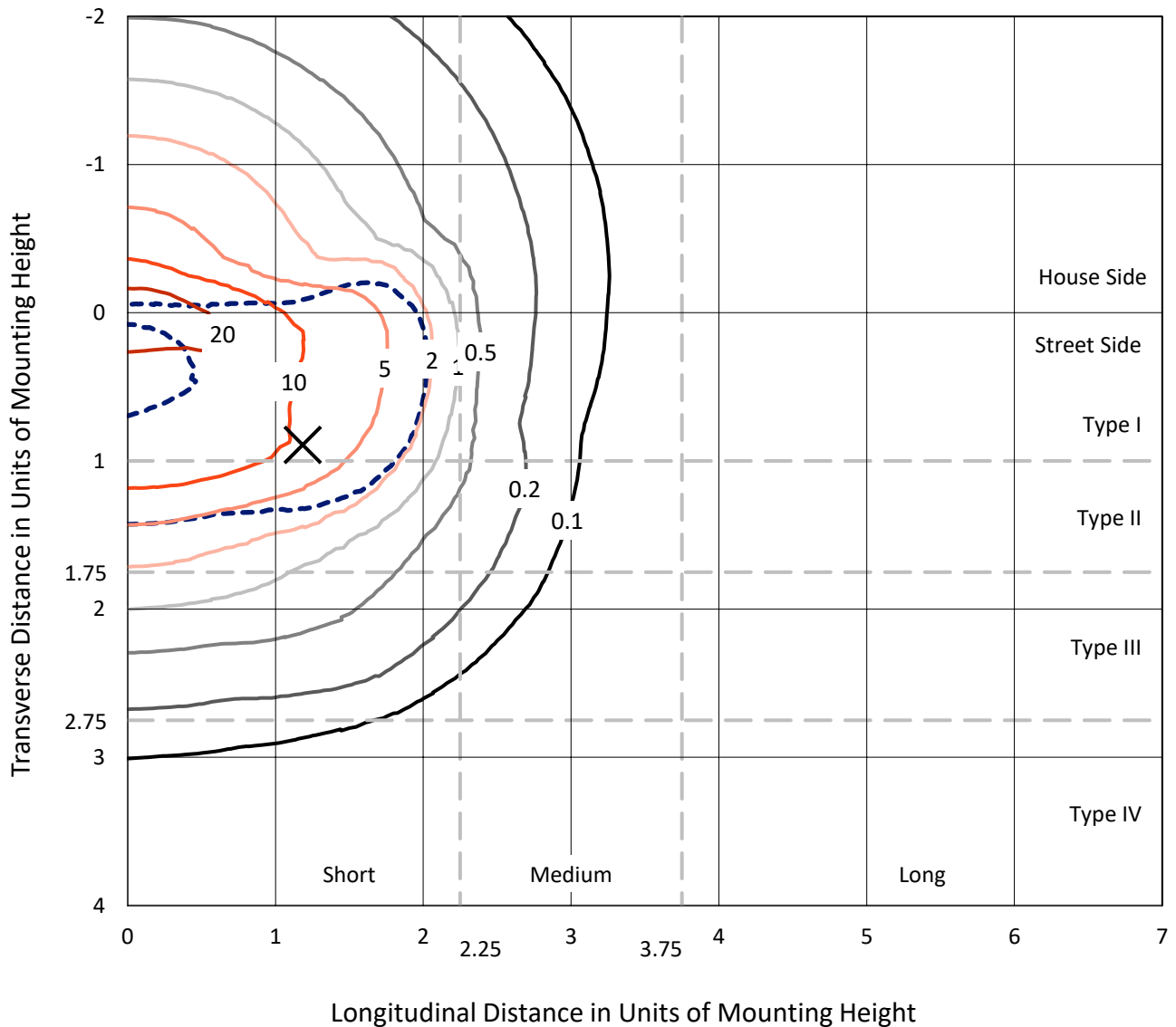
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

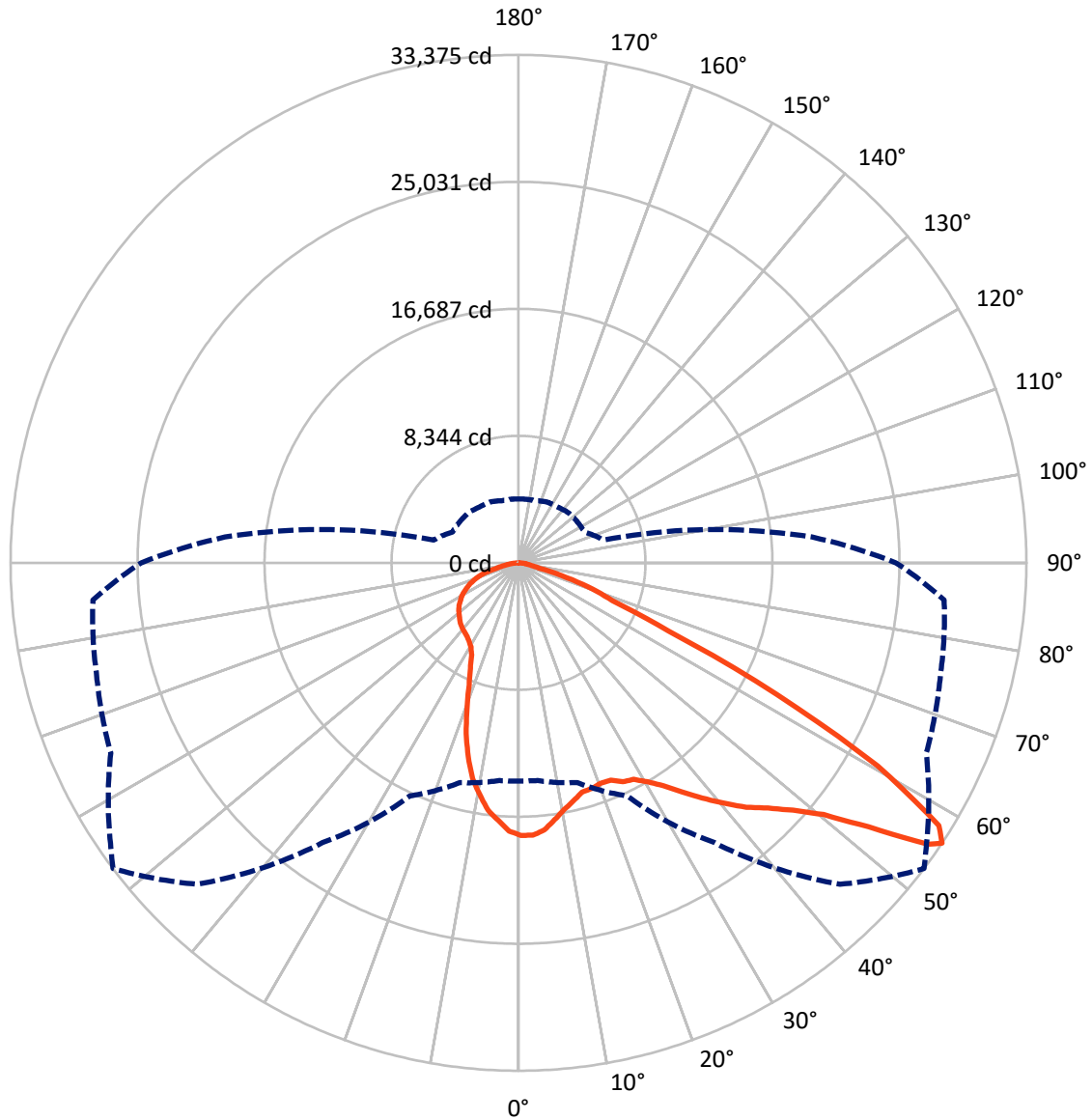
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical



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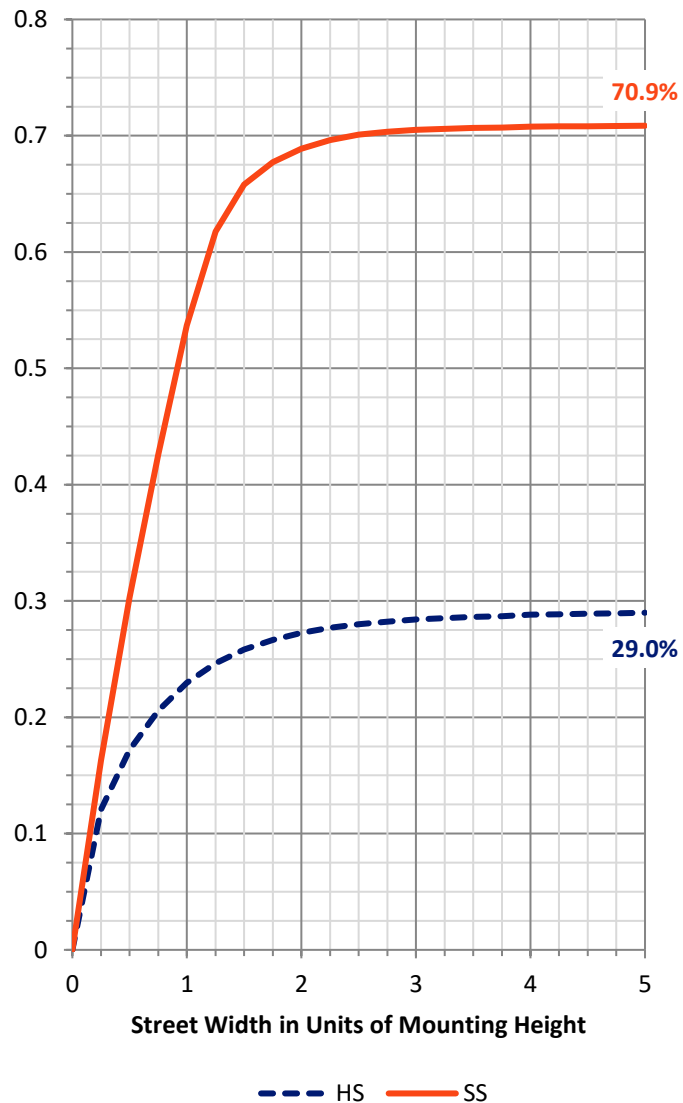
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15797.5	0.0	15797.5
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	38336.5	0.0	38336.5
	% Fixture	70.8	0.0	70.8
Total	Lumens	54134.0	0.0	54134.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1585.5	2.9
10°-20°	3959.9	7.3
20°-30°	5839.3	10.8
30°-40°	8343.2	15.4
40°-50°	11483.2	21.2
50°-60°	13570.1	25.1
60°-70°	7232.0	13.4
70°-80°	1834.7	3.4
80°-90°	286.1	0.5
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°	54134.0	100.0
0°-180°	54134.0	100.0

Coefficient of Utilization

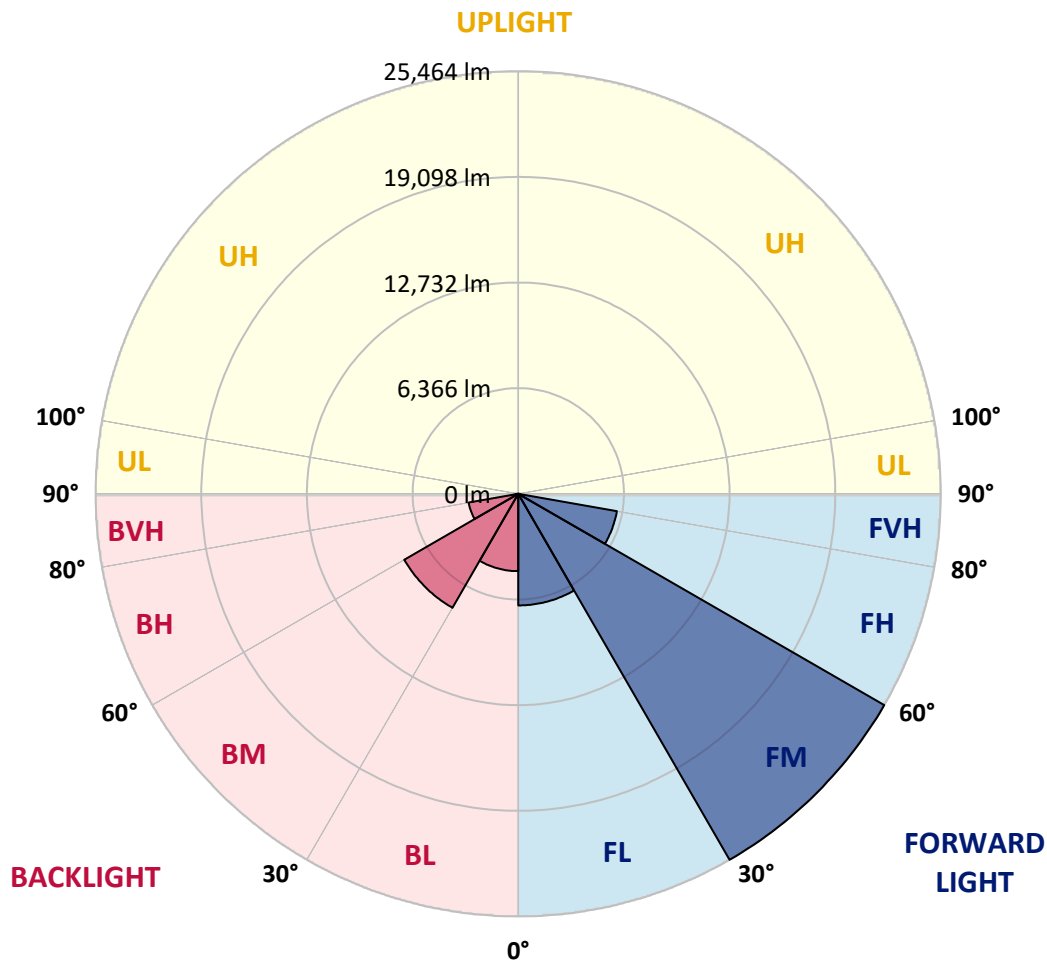


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6725.4	12.4			
FM (30°-60°)	25463.6	47.0			
FH (60°-80°)	6032.6	11.1			G3/7500
FVH (80°-90°)	115.0	0.2			G2/225
BL (0°-30°)	4659.3	8.6	B4/5000		
BM (30°-60°)	7933.0	14.7	B4/8500		
BH (60°-80°)	3034.1	5.6	B4/5000		G4/5000
BVH (80°-90°)	171.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	17909.7	17909.7	17909.7	17909.7	17909.7	17909.7	17909.7	17909.7	17909.7	17909.7	17909.7
2.5°	17687.4	17534.7	17624.9	17590.2	17874.9	17958.3	17916.6	17951.3	18111.0	18034.7	17874.9
5°	16527.7	16743.0	16784.7	16888.8	17055.5	17381.9	17638.8	17708.3	17784.7	18138.8	18104.1
7.5°	15472.2	15618.0	15541.6	15847.2	16208.3	16736.1	17048.6	17104.1	17805.5	17999.9	18145.8
10°	14805.5	14659.7	15006.9	15090.2	15499.9	16104.1	16479.1	16708.3	17347.2	18118.0	18208.3
12.5°	14187.5	14138.8	14347.2	14583.3	15041.6	15666.6	16048.6	16138.8	17124.9	17937.4	18361.0
15°	13729.1	13673.6	13881.9	14055.5	14590.2	15145.8	15631.9	15888.8	16881.9	17833.3	18229.1
17.5°	13368.0	13361.1	13479.1	13791.6	14340.2	14805.5	15590.2	15604.1	16756.9	17993.0	18340.2
20°	13347.2	13340.2	13361.1	13708.3	14208.3	14777.7	15458.3	15583.3	16756.9	17881.9	18347.2
22.5°	13520.8	13409.7	13534.7	13756.9	14118.0	14826.3	15506.9	15784.7	17159.7	18430.5	18659.7
25°	13798.6	13826.3	13895.8	13972.2	14180.5	14937.4	15937.4	16166.6	17631.9	18902.7	19090.2
27.5°	14305.5	14291.6	14319.4	14361.1	14541.6	15041.6	16111.1	16701.3	18618.0	19743.0	19555.5
30°	15048.6	14999.9	15111.1	15256.9	15090.2	15374.9	16687.4	17131.9	19534.7	20590.2	20076.3
32.5°	15722.2	15902.7	16111.1	16173.6	15972.2	16027.7	17451.3	17902.7	20298.5	21631.9	20715.2
35°	16562.4	16708.3	16986.1	17180.5	17145.8	16979.1	18493.0	19090.2	21402.7	22395.8	21388.8
37.5°	17381.9	17555.5	18013.8	18590.2	18270.8	18194.4	19604.1	20097.2	21743.0	22805.5	21881.9
40°	18701.3	18694.4	19486.0	19784.7	20069.4	19937.4	20756.9	20923.5	21923.5	22715.2	21895.8
42.5°	20249.9	20152.7	20958.3	21423.5	21791.6	21805.5	21958.3	21902.7	22006.9	22256.9	21749.9
45°	21722.1	21930.5	22743.0	23576.3	23944.4	23986.0	22972.1	22868.0	22152.7	22124.9	21472.1
47.5°	23520.8	23569.4	24236.0	25333.2	26187.4	25895.7	24284.6	24055.5	22791.6	23006.9	21937.4
50°	23624.9	23986.0	24583.2	25874.9	28499.9	28423.5	25986.0	25555.5	23819.4	24256.9	23236.0
52.5°	21444.4	21361.0	22069.4	24180.5	28326.3	30937.4	28805.5	27777.7	26027.7	25694.4	25340.2
55°	16340.2	16534.7	17159.7	19291.6	24597.1	30972.1	32645.7	31805.4	28388.8	27819.3	27409.6
56°	14333.3	14361.1	14951.3	16895.8	22444.4	29868.0	33374.9	32694.3	29562.4	28694.3	28069.3
57.5°	11881.9	11722.2	12027.7	13090.2	18944.4	27534.6	32576.3	33242.9	30937.4	29638.8	28770.7
60°	9354.1	9319.4	9194.4	9388.9	11972.2	20743.0	27118.0	28618.0	30798.5	28749.9	27555.5
62.5°	7638.9	7465.3	7715.3	7993.0	8319.4	12868.0	19055.5	19937.4	24451.3	22951.3	20701.3
65°	5923.6	5840.3	6152.8	7055.5	7250.0	8173.6	10854.1	11534.7	14437.5	14180.5	12486.1
67.5°	4076.4	4090.3	4361.1	5736.1	6722.2	6638.9	6645.8	7000.0	7534.7	5597.2	4875.0
70°	2583.3	2576.4	2722.2	3694.4	5409.7	5465.3	5187.5	5083.3	4819.4	2916.7	3090.3
72.5°	1659.7	1611.1	1687.5	2041.7	2798.6	3236.1	3333.3	3395.8	2791.7	2291.7	2486.1
75°	937.5	888.9	861.1	951.4	1104.2	1277.8	1402.8	1444.4	1618.0	1736.1	1840.3
77.5°	284.7	256.9	312.5	416.7	548.6	736.1	895.8	923.6	1090.3	1229.2	1333.3
80°	125.0	138.9	194.4	277.8	388.9	520.8	631.9	673.6	784.7	888.9	916.7
82.5°	76.4	83.3	131.9	187.5	270.8	368.1	451.4	465.3	576.4	659.7	680.6
85°	27.8	34.7	69.4	111.1	173.6	236.1	236.1	256.9	236.1	236.1	256.9
87.5°	0.0	0.0	6.9	13.9	13.9	20.8	27.8	27.8	34.7	41.7	48.6
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°	17909.7	17909.7	17909.7	17909.7	17909.7	17909.7	17909.7	17909.7	17909.7	17909.7	17909.7
2.5°	17958.3	17923.5	17868.0	17666.6	17645.8	17583.3	17236.1	17180.5	17236.1	17069.4	17083.3
5°	17923.5	18027.7	17611.1	17409.7	17034.7	16763.8	16451.3	16291.6	16006.9	15826.3	16027.7
7.5°	18076.3	18034.7	17513.8	17076.3	16513.8	15826.3	15277.7	14965.2	14465.2	14326.3	14430.5
10°	18020.8	17798.5	17187.4	16611.1	15548.6	14944.4	14055.5	13194.4	12722.2	12479.1	12444.4
12.5°	17944.4	17881.9	16861.1	15868.0	14749.9	13479.1	12229.1	11416.6	10645.8	10312.5	10361.1
15°	18034.7	17506.9	16249.9	14993.0	13506.9	11840.2	10493.0	9444.4	8909.7	8694.4	8694.4
17.5°	17993.0	17326.3	15958.3	14013.8	12131.9	10159.7	8680.5	8048.6	7826.4	7826.4	7888.9
20°	18013.8	17444.4	15368.0	13034.7	10506.9	8555.5	7479.1	7250.0	7347.2	7381.9	7416.6
22.5°	18131.9	17055.5	14791.6	11958.3	9000.0	7319.4	6791.6	6798.6	6972.2	7159.7	7125.0
25°	18277.7	16902.7	14090.2	10888.9	7847.2	6715.3	6548.6	6527.8	6659.7	6756.9	6770.8
27.5°	18152.7	16638.8	13375.0	9555.5	6902.8	6312.5	6277.8	6291.6	6333.3	6527.8	6465.3
30°	18562.4	16715.2	12479.1	8437.5	6381.9	6180.5	6138.9	6118.0	6180.5	6236.1	6187.5
32.5°	19069.4	16444.4	11812.5	7361.1	6125.0	6083.3	6000.0	5972.2	6006.9	5951.4	5979.1
35°	19291.6	16395.8	10944.4	6590.3	5923.6	5888.9	5840.3	5833.3	5840.3	5791.6	5750.0
37.5°	19416.6	16624.9	9951.4	6236.1	5798.6	5833.3	5722.2	5708.3	5583.3	5611.1	5631.9
40°	19631.9	16270.8	9145.8	5895.8	5722.2	5652.8	5555.5	5534.7	5451.4	5402.8	5451.4
42.5°	19319.4	16166.6	8354.1	5750.0	5611.1	5534.7	5465.3	5347.2	5319.4	5277.8	5250.0
45°	19069.4	15569.4	7645.8	5569.4	5479.1	5437.5	5305.5	5180.5	5076.4	5118.0	5055.5
47.5°	19256.9	15361.1	6944.4	5416.6	5298.6	5250.0	5118.0	5020.8	4916.6	4868.0	4854.1
50°	20006.9	15749.9	6354.1	5305.5	5145.8	5118.0	4944.4	4833.3	4736.1	4701.4	4715.3
52.5°	21798.5	16812.4	5951.4	5076.4	5000.0	4875.0	4777.8	4638.9	4576.4	4465.3	4534.7
55°	24069.4	18541.6	5847.2	4861.1	4819.4	4708.3	4576.4	4472.2	4354.2	4263.9	4243.0
56°	24798.5	19368.0	5763.9	4777.8	4708.3	4645.8	4472.2	4409.7	4222.2	4201.4	4187.5
57.5°	25388.8	20097.2	5777.8	4618.0	4548.6	4493.0	4388.9	4236.1	4111.1	4034.7	4069.4
60°	24055.5	18812.4	5513.9	4375.0	4361.1	4256.9	4111.1	4041.7	3888.9	3798.6	3777.8
62.5°	17881.9	12770.8	4472.2	4062.5	4055.5	3944.4	3777.8	3701.4	3673.6	3548.6	3548.6
65°	10298.6	8006.9	3868.0	3805.5	3750.0	3638.9	3472.2	3409.7	3340.3	3298.6	3263.9
67.5°	4395.8	4152.8	3513.9	3506.9	3444.4	3305.5	3138.9	3041.7	2951.4	2868.0	2909.7
70°	3187.5	3236.1	3173.6	3138.9	3062.5	2888.9	2743.0	2625.0	2486.1	2430.5	2472.2
72.5°	2527.8	2631.9	2722.2	2729.2	2638.9	2437.5	2277.8	2118.0	1965.3	1888.9	1923.6
75°	1916.7	1986.1	2076.4	2097.2	1965.3	1826.4	1673.6	1506.9	1388.9	1298.6	1312.5
77.5°	1381.9	1368.1	1451.4	1437.5	1375.0	1277.8	1138.9	986.1	854.2	770.8	777.8
80°	944.4	965.3	1013.9	1006.9	930.6	868.1	763.9	638.9	541.7	472.2	458.3
82.5°	659.7	694.4	736.1	701.4	638.9	576.4	500.0	409.7	333.3	277.8	263.9
85°	236.1	270.8	312.5	333.3	354.2	340.3	284.7	229.2	166.7	138.9	131.9
87.5°	48.6	55.6	62.5	62.5	62.5	55.6	48.6	48.6	41.7	20.8	20.8
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)