

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: P529817

Luminaire Tested: **GALN-SA5A-730-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529817
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-730-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12174 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

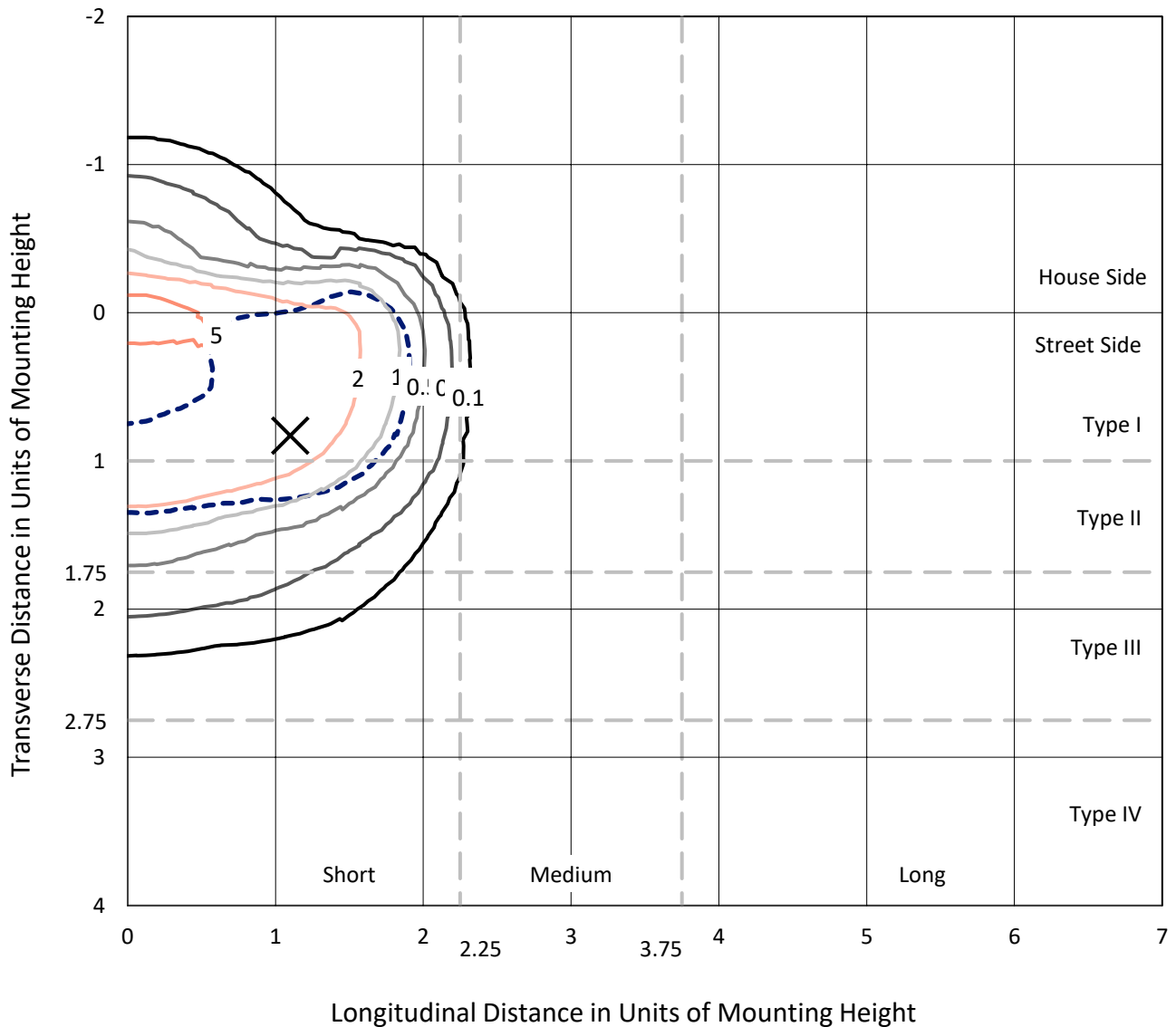
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

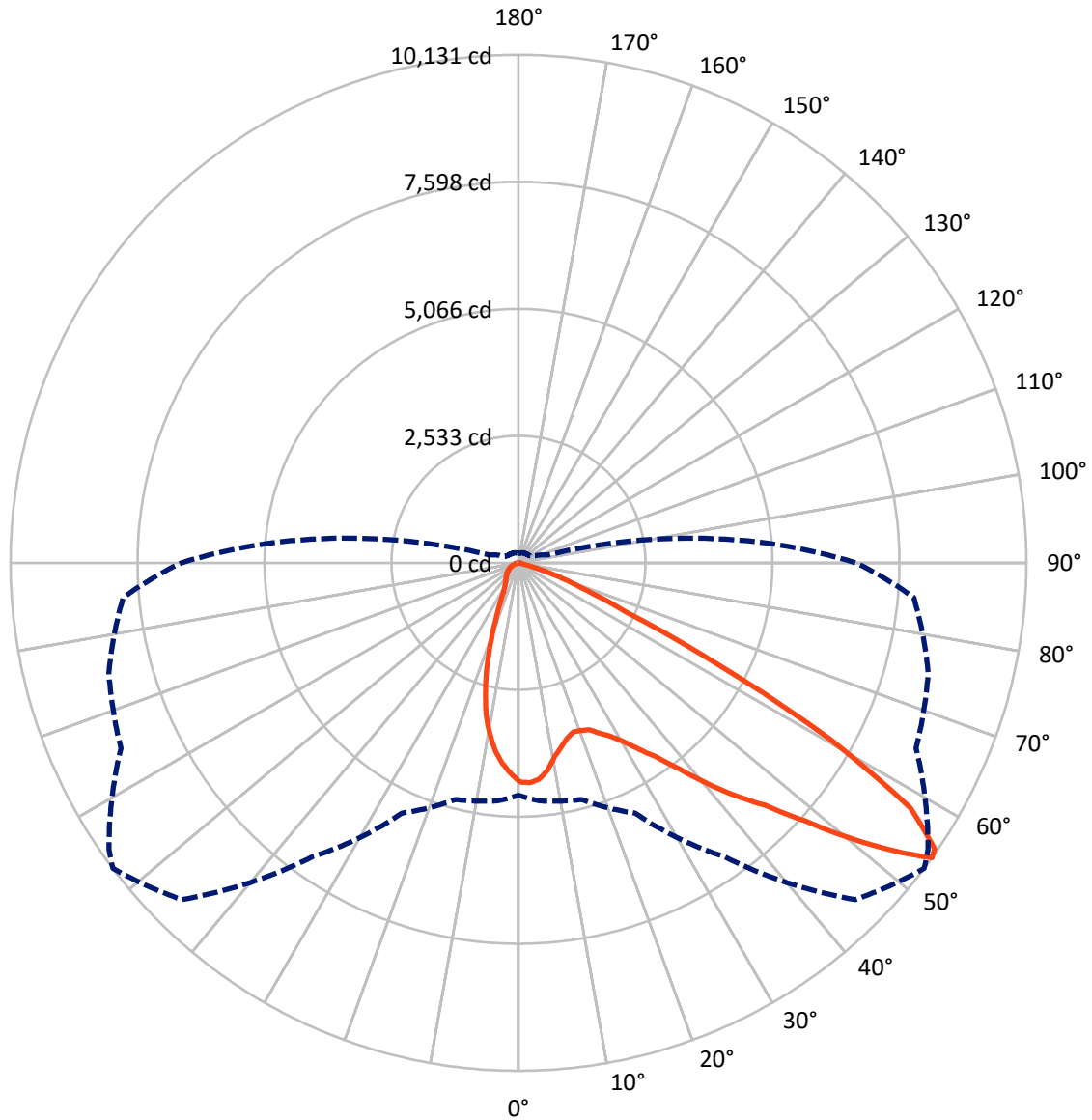
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - N/A

REPORT NUMBER: P529817
CATALOG NUMBER: GALN-SA5A-730-U-SL2-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical



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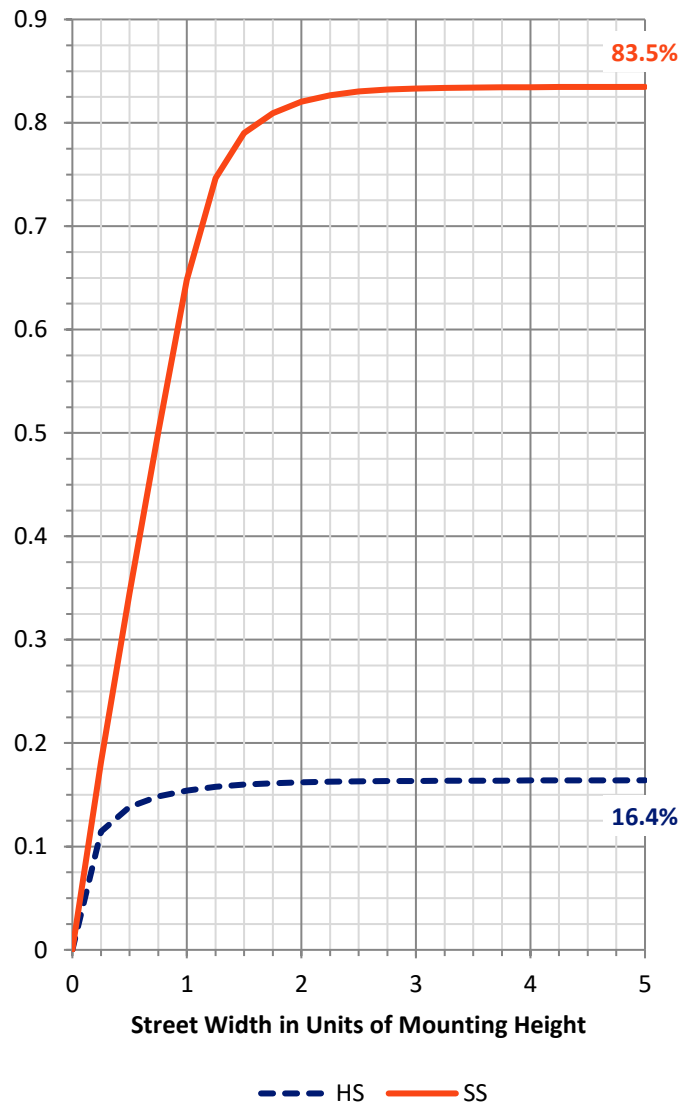
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2014.2	0.0	2014.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	10159.8	0.0	10159.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	12174.0	0.0	12174.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.2	3.1
10°-20°	860.1	7.1
20°-30°	1222.4	10.0
30°-40°	1886.6	15.5
40°-50°	2957.9	24.3
50°-60°	3436.1	28.2
60°-70°	1298.3	10.7
70°-80°	123.5	1.0
80°-90°	13.9	0.1
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°	12174.0	100.0
0°-180°	12174.0	100.0

Coefficient of Utilization



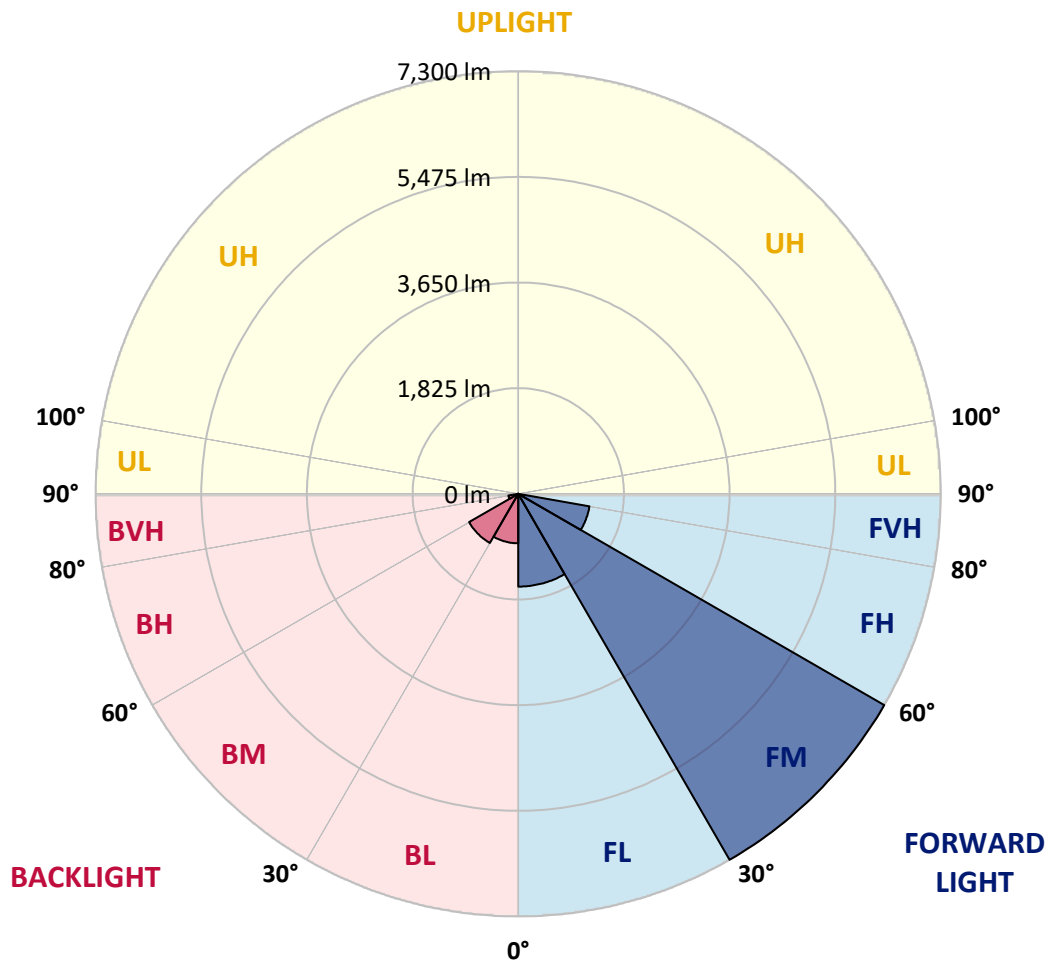
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 CATALOG NUMBER: GALN-SA5A-730-U-SL2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1603.0	13.2			
FM (30°-60°)	7300.4	60.0			
FH (60°-80°)	1249.2	10.3			G1/1800
FVH (80°-90°)	7.2	0.1			G0/10
BL (0°-30°)	854.8	7.0	B2/1000		
BM (30°-60°)	980.2	8.1	B1/1000		
BH (60°-80°)	172.6	1.4	B1/500		G1/500
BVH (80°-90°)	6.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





REPORT NUMBER: P529817

CATALOG NUMBER: GALN-SA5A-730-U-SL2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4372.7	4372.7	4372.7	4372.7	4372.7	4372.7	4372.7	4372.7	4372.7	4372.7	4372.7
2.5°	4350.0	4311.5	4350.0	4354.6	4381.8	4406.7	4390.8	4427.1	4406.7	4384.0	4377.2
5°	3998.5	4050.6	4052.9	4134.6	4116.4	4266.1	4331.9	4313.7	4424.9	4418.1	4402.2
7.5°	3683.2	3662.8	3690.0	3785.3	3905.5	4077.9	4173.1	4170.8	4329.6	4443.0	4431.7
10°	3390.7	3388.4	3445.1	3519.9	3622.0	3803.4	3935.0	4000.7	4248.0	4420.3	4445.3
12.5°	3193.3	3184.3	3245.5	3306.7	3467.8	3608.4	3776.2	3808.0	4091.5	4340.9	4381.8
15°	3064.1	3084.5	3089.0	3206.9	3309.0	3495.0	3626.5	3692.3	4018.9	4277.4	4433.9
17.5°	3041.4	3068.6	3070.9	3168.4	3277.3	3433.7	3549.4	3637.9	3957.7	4309.2	4436.2
20°	3086.7	3070.9	3084.5	3145.7	3252.3	3402.0	3569.8	3599.3	3937.2	4325.1	4461.1
22.5°	3216.0	3211.5	3177.5	3227.4	3302.2	3458.7	3617.5	3662.8	3996.2	4406.7	4481.6
25°	3358.9	3383.8	3352.1	3345.3	3397.5	3551.7	3762.6	3821.6	4193.5	4554.1	4545.1
27.5°	3626.5	3601.6	3601.6	3569.8	3556.2	3631.1	3919.1	4016.6	4413.5	4744.6	4617.6
30°	3882.8	3910.0	3889.6	3901.0	3810.2	3803.4	4141.4	4261.6	4803.6	5035.0	4771.9
32.5°	4288.8	4252.5	4286.5	4257.0	4136.8	4014.4	4443.0	4567.7	5275.4	5368.3	5003.2
35°	4626.7	4610.8	4756.0	4751.5	4556.4	4436.2	4762.8	4948.8	5604.2	5767.5	5275.4
37.5°	5107.5	5078.0	5243.6	5323.0	5148.4	4969.2	5220.9	5436.4	5910.4	6087.3	5554.3
40°	5601.9	5676.8	5899.1	6030.6	5844.6	5606.5	5781.1	5846.9	6114.5	6296.0	5744.8
42.5°	6227.9	6336.8	6563.6	6677.0	6661.1	6402.6	6350.4	6348.1	6261.9	6237.0	5885.4
45°	6828.9	6788.1	7137.4	7384.6	7584.2	7509.3	6899.2	6831.2	6495.5	6325.4	5921.7
47.5°	7092.0	7078.4	7316.6	7756.5	8436.9	8529.9	7697.6	7434.5	6890.2	6697.4	6119.1
50°	6751.8	6822.1	7058.0	7545.6	8588.9	9298.8	8677.4	8323.5	7350.6	7151.0	6586.3
52.5°	5640.5	5688.1	5912.7	6531.8	8071.8	9752.4	9616.3	9412.2	8196.5	7865.4	7400.5
54°	4638.1	4765.1	4887.5	5509.0	7151.0	9500.6	10131.1	9974.6	8747.7	8459.6	7913.0
55°	4039.3	4114.1	4202.6	4821.8	6513.7	9074.3	10072.2	10085.8	9117.3	8645.6	8257.8
57.5°	2950.7	3002.8	2912.1	3186.5	4472.5	7368.7	9212.6	9580.0	9616.3	8924.6	8468.7
60°	2254.4	2277.1	2175.0	2218.1	2780.6	5057.6	7126.0	7568.3	8675.1	7799.6	7173.7
62.5°	1748.6	1753.2	1750.9	1825.7	1916.5	2975.6	4456.6	4849.0	5980.7	5538.4	4871.7
65°	1288.2	1267.8	1304.1	1530.9	1635.2	1871.1	2347.4	2633.1	3250.0	2744.3	1961.8
67.5°	834.6	841.4	877.7	1138.5	1401.6	1435.6	1444.7	1422.0	1424.3	784.7	492.2
70°	501.2	512.6	501.2	644.1	1002.5	1029.7	941.2	918.5	716.7	186.0	183.7
72.5°	297.1	281.2	251.7	276.7	417.3	499.0	449.1	446.8	281.2	108.9	108.9
75°	124.7	113.4	93.0	83.9	111.1	106.6	106.6	95.3	74.8	72.6	68.0
77.5°	24.9	24.9	18.1	20.4	27.2	31.8	38.6	38.6	45.4	45.4	43.1
80°	0.0	2.3	6.8	13.6	20.4	29.5	34.0	34.0	38.6	38.6	31.8
82.5°	0.0	2.3	6.8	13.6	18.1	27.2	34.0	34.0	38.6	40.8	34.0
85°	0.0	2.3	6.8	11.3	18.1	22.7	22.7	20.4	15.9	13.6	9.1
87.5°	0.0	0.0	2.3	4.5	2.3	4.5	4.5	4.5	4.5	4.5	4.5
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°	4372.7	4372.7	4372.7	4372.7	4372.7	4372.7	4372.7	4372.7	4372.7	4372.7	4372.7
2.5°	4393.1	4390.8	4336.4	4248.0	4227.5	4152.7	4143.6	4098.3	4123.2	4039.3	4030.2
5°	4356.8	4329.6	4263.8	4207.1	4041.6	3923.6	3830.6	3717.2	3651.5	3662.8	3619.7
7.5°	4409.0	4338.7	4223.0	4025.7	3823.8	3617.5	3506.3	3275.0	3191.1	3066.3	3048.2
10°	4354.6	4302.4	4123.2	3796.6	3517.7	3220.6	2959.7	2703.5	2508.4	2424.5	2406.3
12.5°	4350.0	4259.3	3959.9	3597.0	3193.3	2767.0	2388.2	2068.4	1875.6	1766.8	1741.8
15°	4279.7	4170.8	3776.2	3288.6	2730.7	2200.0	1787.2	1478.7	1331.3	1267.8	1286.0
17.5°	4286.5	4123.2	3592.5	2962.0	2274.8	1614.8	1220.2	1061.4	1022.9	1038.7	1038.7
20°	4279.7	4016.6	3370.2	2585.5	1741.8	1120.4	895.9	839.2	864.1	914.0	902.7
22.5°	4243.4	3966.7	3166.1	2188.6	1281.4	830.1	719.0	721.2	759.8	821.0	834.6
25°	4270.6	3855.6	2907.6	1787.2	934.4	662.3	623.7	639.6	680.4	725.8	734.8
27.5°	4250.2	3776.2	2637.7	1388.0	682.7	569.3	567.0	585.1	603.3	637.3	637.3
30°	4272.9	3703.6	2372.3	1031.9	562.5	521.6	512.6	526.2	544.3	551.1	548.9
32.5°	4356.8	3649.2	2066.1	771.1	496.7	476.3	476.3	476.3	474.0	483.1	485.4
35°	4540.5	3658.3	1796.3	596.5	453.6	437.7	430.9	421.8	417.3	421.8	424.1
37.5°	4740.1	3653.7	1517.3	508.0	421.8	408.2	392.4	378.8	376.5	381.0	374.2
40°	4828.6	3696.8	1258.7	455.9	392.4	376.5	351.5	340.2	342.5	347.0	342.5
42.5°	4948.8	3710.4	1090.9	415.0	365.1	340.2	324.3	310.7	308.4	315.3	313.0
45°	4946.5	3633.3	914.0	392.4	340.2	313.0	292.6	281.2	281.2	285.8	288.0
47.5°	5091.7	3622.0	784.7	372.0	322.1	294.8	269.9	260.8	258.6	258.6	254.0
50°	5429.6	3780.7	684.9	349.3	299.4	274.4	254.0	242.7	233.6	229.1	226.8
52.5°	6089.6	4275.2	607.8	322.1	274.4	254.0	235.9	226.8	215.5	204.1	201.9
54°	6729.1	4785.5	603.3	299.4	254.0	240.4	224.5	220.0	206.4	190.5	186.0
55°	7017.2	5082.6	619.2	281.2	240.4	231.3	217.7	213.2	199.6	181.4	179.2
57.5°	7255.3	5198.2	610.1	233.6	217.7	215.5	204.1	197.3	181.4	156.5	152.0
60°	5840.1	3930.4	437.7	206.4	199.6	195.0	186.0	181.4	161.0	133.8	131.5
62.5°	3690.0	2261.2	279.0	181.4	174.6	167.8	156.5	152.0	133.8	106.6	99.8
65°	1571.7	936.7	188.2	161.0	149.7	138.3	129.3	122.5	106.6	79.4	77.1
67.5°	408.2	333.4	156.5	140.6	124.7	108.9	102.1	90.7	72.6	54.4	52.2
70°	183.7	167.8	131.5	117.9	99.8	83.9	74.8	63.5	47.6	36.3	34.0
72.5°	108.9	106.6	99.8	88.5	74.8	63.5	54.4	43.1	31.8	20.4	20.4
75°	68.0	65.8	68.0	61.2	52.2	47.6	40.8	29.5	18.1	9.1	9.1
77.5°	40.8	40.8	40.8	38.6	36.3	36.3	29.5	18.1	9.1	2.3	2.3
80°	31.8	31.8	34.0	31.8	31.8	31.8	24.9	13.6	4.5	0.0	0.0
82.5°	31.8	34.0	38.6	36.3	31.8	27.2	22.7	13.6	4.5	0.0	0.0
85°	9.1	6.8	11.3	15.9	22.7	20.4	15.9	11.3	4.5	0.0	0.0
87.5°	4.5	4.5	4.5	4.5	2.3	2.3	2.3	2.3	2.3	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)