

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: P383169

Luminaire Tested: **GLEON-SA5A-735-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5A-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20617 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

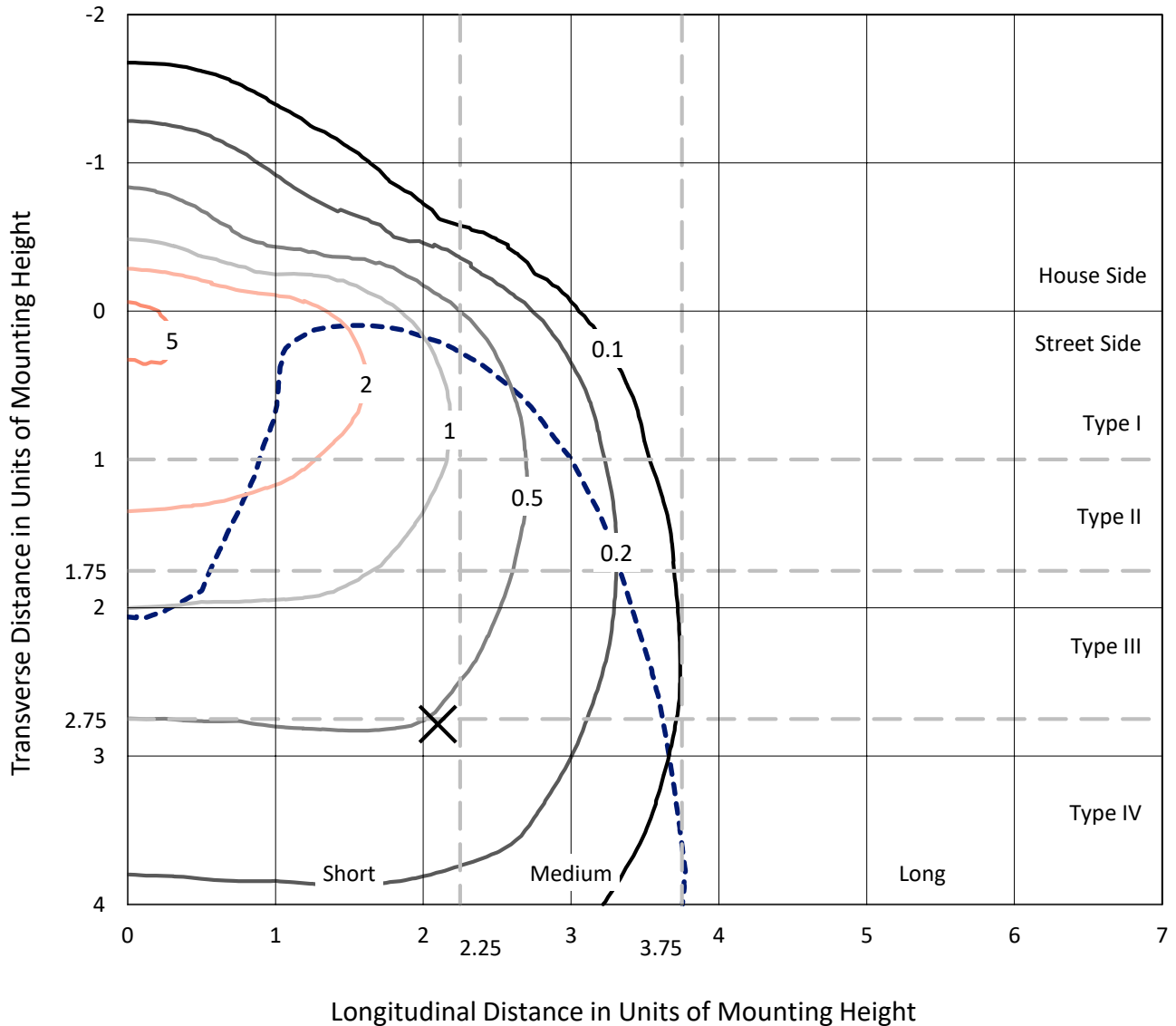
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

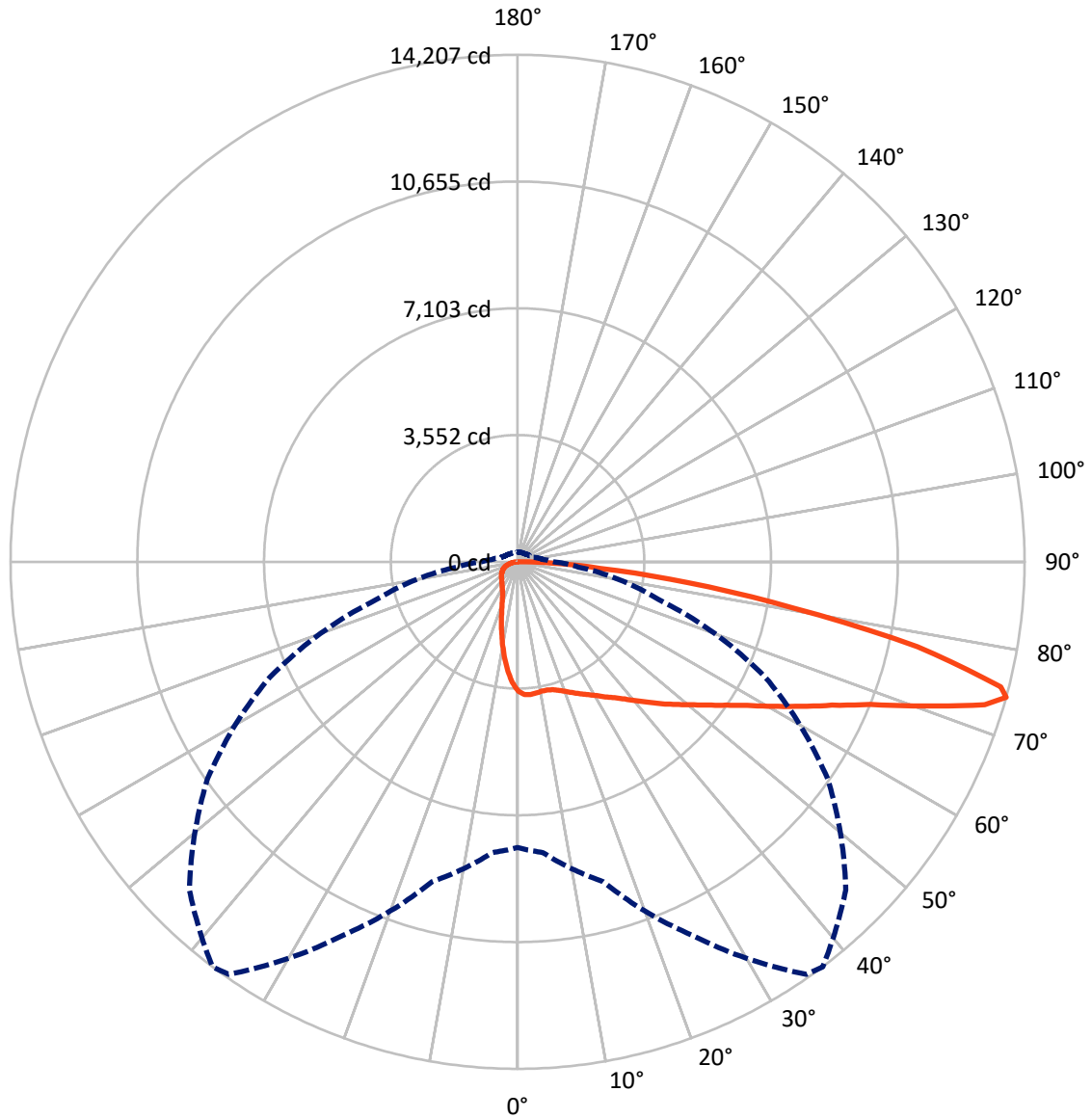
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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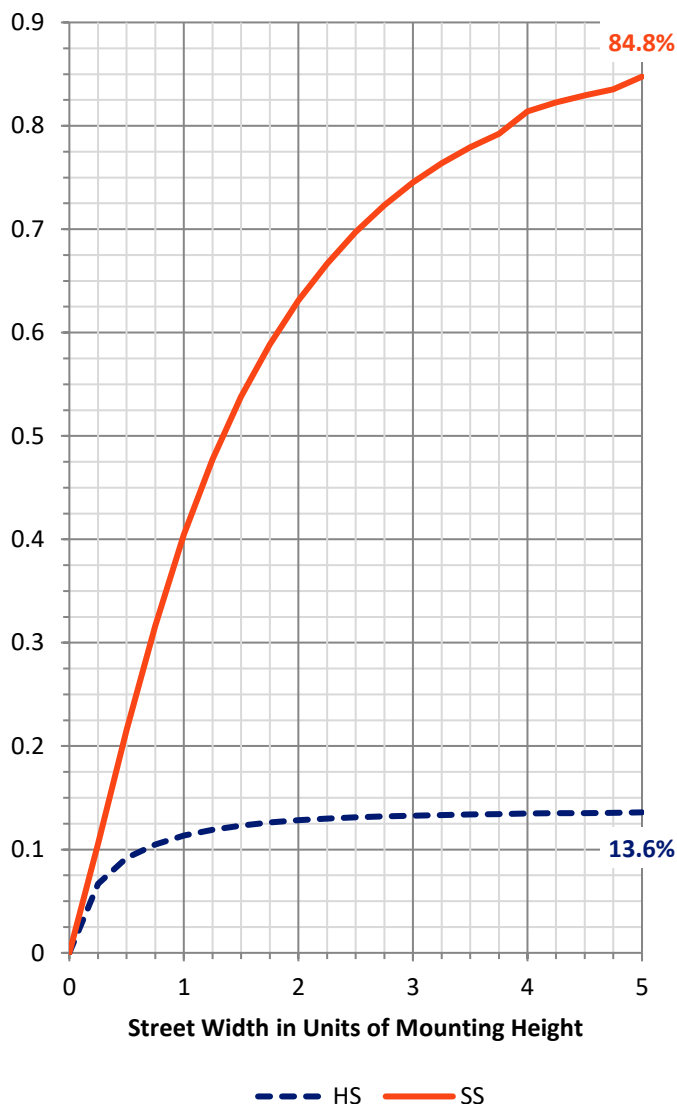
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2836.8	0.0	2836.8
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	17780.3	0.0	17780.3
	% Fixture	86.2	0.0	86.2
Total	Lumens	20617.0	0.0	20617.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.9	1.6
10°-20°	820.0	4.0
20°-30°	1263.4	6.1
30°-40°	1837.2	8.9
40°-50°	2704.1	13.1
50°-60°	3797.3	18.4
60°-70°	4806.3	23.3
70°-80°	4232.1	20.5
80°-90°	836.8	4.1
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°	20617.0	100.0
0°-180°	20617.0	100.0

Coefficient of Utilization



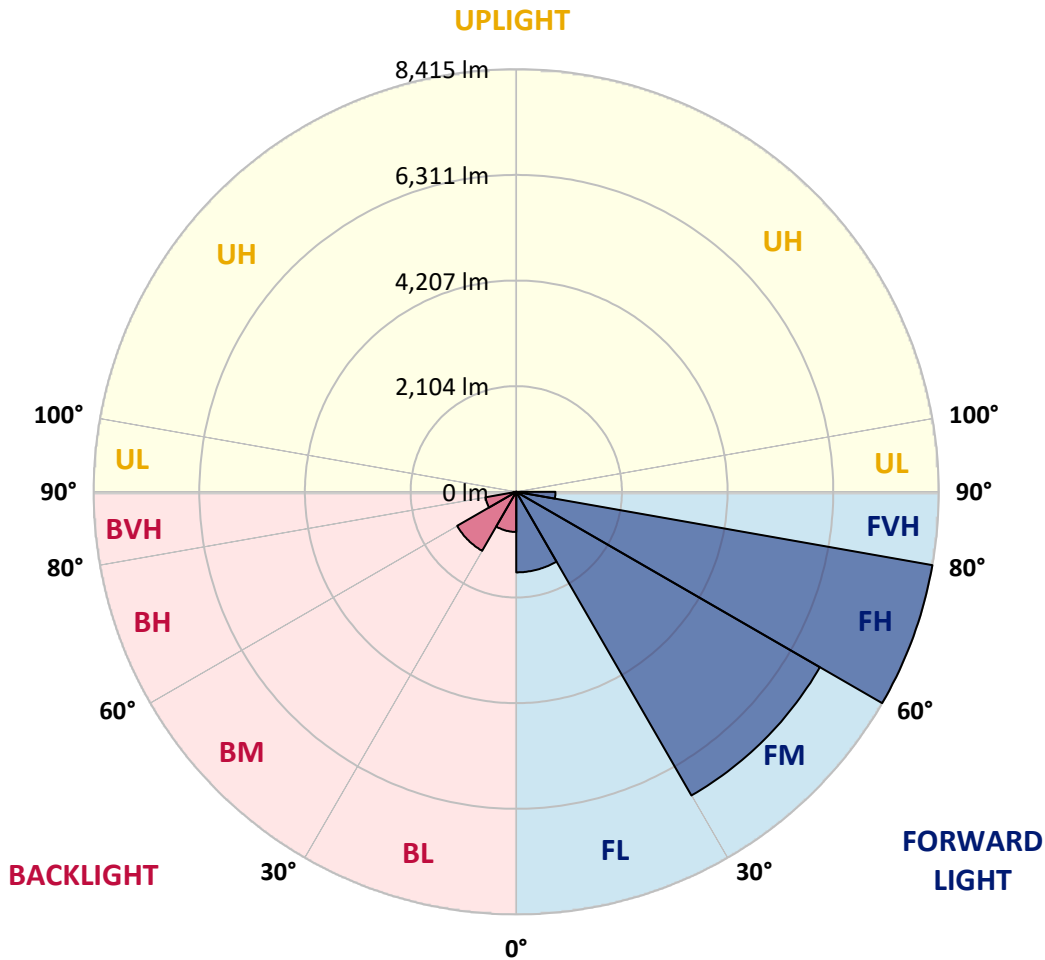
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1604.2	7.8			
FM (30°-60°)	6981.1	33.9			
FH (60°-80°)	8414.8	40.8			G4/12000
FVH (80°-90°)	780.1	3.8			G5
BL (0°-30°)	799.0	3.9	B2/1000		
BM (30°-60°)	1357.5	6.6	B2/2500		
BH (60°-80°)	623.6	3.0	B2/1000		G2/1000
BVH (80°-90°)	56.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	3632.7	3632.7	3632.7	3632.7	3632.7	3632.7	3632.7	3632.7	3632.7	3632.7	3632.7
2.5°	3756.8	3757.6	3756.8	3751.0	3737.2	3725.6	3716.1	3702.3	3671.9	3648.6	3613.8
5°	3792.4	3788.0	3785.2	3774.3	3752.5	3739.4	3721.3	3695.1	3645.0	3598.5	3541.8
7.5°	3775.7	3770.6	3764.1	3751.0	3726.3	3715.4	3690.0	3655.9	3595.6	3534.6	3453.2
10°	3724.1	3722.7	3719.8	3716.9	3695.8	3687.1	3663.9	3627.5	3568.0	3494.0	3398.8
12.5°	3666.8	3670.4	3682.0	3697.3	3687.8	3683.4	3669.0	3644.2	3583.3	3503.4	3388.6
15°	3630.4	3640.6	3671.9	3711.8	3719.8	3718.4	3714.7	3698.7	3634.1	3545.5	3411.9
17.5°	3618.1	3634.8	3694.3	3760.5	3783.7	3788.8	3790.2	3762.6	3690.7	3597.1	3435.8
20°	3640.6	3661.7	3748.8	3839.7	3876.6	3879.5	3873.0	3825.1	3744.4	3641.3	3448.9
22.5°	3708.9	3727.8	3836.7	3939.1	3981.2	3985.6	3966.0	3893.3	3801.1	3693.7	3467.0
25°	3840.3	3863.6	3972.5	4075.0	4096.7	4097.4	4069.1	3979.0	3875.2	3767.0	3506.3
27.5°	4011.7	4035.0	4133.0	4233.2	4221.6	4215.1	4176.6	4086.5	3971.7	3868.0	3576.0
30°	4202.8	4228.1	4321.1	4392.2	4364.7	4351.6	4320.4	4204.2	4106.2	4005.9	3682.8
32.5°	4400.3	4423.5	4504.9	4553.5	4518.7	4512.9	4465.7	4359.6	4281.2	4216.6	3855.6
35°	4602.9	4619.6	4699.5	4727.0	4680.6	4679.2	4666.0	4568.8	4519.4	4549.9	4106.9
37.5°	4809.9	4814.2	4882.5	4883.9	4870.1	4876.0	4889.8	4828.8	4842.6	4937.7	4433.7
40°	4994.3	5006.0	5055.3	5070.6	5094.5	5114.8	5183.9	5143.9	5250.7	5419.2	4840.4
42.5°	5130.9	5153.4	5232.5	5271.7	5349.5	5381.5	5478.7	5515.8	5730.7	5983.4	5324.1
45°	5246.3	5281.2	5408.3	5488.9	5620.3	5676.3	5815.7	5939.9	6273.2	6595.7	5833.2
47.5°	5371.2	5415.6	5574.6	5728.6	5907.2	5970.4	6223.9	6409.8	6852.1	7211.6	6313.2
50°	5555.0	5589.1	5744.6	5986.4	6209.3	6290.6	6641.5	6908.0	7440.3	7798.4	6729.3
52.5°	5811.4	5798.2	5929.8	6268.8	6568.1	6668.3	7087.3	7438.1	8036.6	8329.2	7080.8
55°	6069.1	6047.4	6139.6	6564.4	6986.4	7091.7	7578.3	7970.4	8603.8	8807.0	7350.3
57.5°	6356.0	6314.6	6392.4	6897.8	7462.8	7588.5	8128.0	8536.1	9161.5	9193.4	7521.6
60°	6651.6	6595.7	6682.8	7311.1	8067.8	8215.9	8771.5	9088.1	9687.3	9502.8	7576.8
62.5°	6910.1	6870.9	7005.2	7772.2	8749.7	8912.4	9403.3	9675.0	10205.8	9631.4	7377.9
65°	7136.0	7142.5	7375.0	8290.7	9510.1	9683.6	10128.1	10398.3	10614.0	9555.1	6912.4
67.5°	7405.4	7442.5	7839.0	8973.4	10467.2	10657.6	11182.6	11187.0	10842.0	9107.7	5995.8
70°	7798.4	7874.6	8477.4	9920.4	11828.2	12089.6	12494.9	11650.3	10521.7	7895.0	4717.6
72.5°	8146.9	8289.3	9156.4	11003.9	13486.9	13685.2	13262.5	11383.0	9183.3	5916.6	2939.1
74°	8005.3	8181.8	9279.9	11537.7	14111.5	14206.7	13003.3	10603.1	7656.8	4097.4	1708.1
75°	7700.3	7892.0	9099.7	11532.7	14032.4	13979.4	12377.3	9711.9	6305.9	2794.5	1136.6
77.5°	6214.4	6417.1	7667.6	9884.1	11505.7	11455.7	9507.9	6515.1	2761.9	916.5	577.4
80°	3613.0	3767.7	4759.7	6276.9	7758.4	7849.1	6252.9	3223.8	1086.5	514.9	391.4
82.5°	1605.0	1711.7	2299.2	3204.2	4682.1	4799.0	3274.6	1689.3	671.1	313.0	235.3
85°	1053.0	1132.2	1395.8	1525.8	2229.6	2309.4	1602.8	1315.3	443.0	172.1	172.8
87.5°	757.4	833.7	1037.1	905.7	1023.3	968.8	872.2	1217.2	177.9	98.0	58.1
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°	3632.7	3632.7	3632.7	3632.7	3632.7	3632.7	3632.7	3632.7	3632.7	3632.7	3632.7
2.5°	3598.5	3586.9	3560.7	3511.4	3483.8	3460.5	3422.0	3399.5	3389.3	3388.6	3393.0
5°	3509.1	3482.3	3414.8	3332.0	3265.9	3205.6	3130.8	3085.8	3053.8	3035.0	3040.0
7.5°	3405.4	3363.2	3257.2	3125.0	3019.0	2902.1	2786.5	2717.6	2663.9	2623.9	2631.2
10°	3334.2	3276.1	3121.3	2931.1	2754.6	2584.7	2425.7	2330.5	2255.0	2196.9	2201.2
12.5°	3310.2	3231.7	3017.5	2763.3	2515.6	2283.3	2075.6	1929.6	1851.9	1785.8	1790.9
15°	3313.8	3208.5	2930.4	2612.2	2300.7	2008.0	1756.1	1585.4	1480.0	1434.3	1435.0
17.5°	3316.7	3181.6	2838.9	2450.3	2088.0	1750.9	1477.2	1304.4	1204.9	1162.7	1163.4
20°	3307.3	3138.1	2725.5	2264.4	1865.7	1515.0	1249.9	1103.1	1027.6	995.0	995.0
22.5°	3295.0	3086.5	2597.7	2077.7	1646.4	1310.1	1087.2	975.3	931.7	909.9	909.3
25°	3300.8	3048.0	2467.0	1886.0	1444.5	1146.7	979.0	904.9	875.8	862.1	861.3
27.5°	3332.0	3029.9	2346.5	1695.0	1268.0	1024.0	906.3	854.0	835.1	826.5	826.5
30°	3388.6	3029.9	2220.8	1532.4	1121.3	933.2	850.4	814.8	801.8	795.9	795.9
32.5°	3487.4	3046.5	2099.5	1371.1	1004.4	862.1	803.9	780.0	769.8	766.9	766.9
35°	3657.3	3103.2	1981.2	1218.7	909.9	803.9	759.7	745.9	738.6	737.9	740.0
37.5°	3896.3	3218.7	1870.1	1106.0	843.1	756.7	722.6	711.7	707.3	711.0	713.8
40°	4196.9	3375.6	1769.1	1004.4	792.3	719.0	688.5	681.2	679.0	684.1	688.5
42.5°	4560.0	3587.6	1686.3	931.1	753.1	687.0	659.4	650.7	648.5	654.3	660.2
45°	4952.9	3815.6	1628.3	876.6	722.6	663.1	634.0	624.6	620.2	623.1	629.6
47.5°	5310.3	4031.4	1605.0	838.1	693.5	642.7	611.5	599.9	592.7	591.2	596.3
50°	5611.6	4191.9	1615.9	814.8	670.3	620.2	589.7	576.6	565.7	559.2	562.8
52.5°	5830.9	4292.8	1626.0	804.7	652.2	595.5	565.7	553.4	538.9	528.0	528.0
55°	5990.0	4316.0	1603.6	796.7	638.4	568.6	538.9	527.3	512.7	500.3	498.9
57.5°	6052.5	4250.7	1520.0	785.1	628.9	543.2	510.6	501.8	489.5	475.0	474.3
60°	5968.2	4048.8	1358.8	760.3	616.6	522.1	482.3	476.4	470.6	456.8	456.1
62.5°	5629.8	3605.7	1150.4	710.3	591.9	499.7	456.1	459.0	459.7	450.3	448.8
65°	5016.1	2997.2	947.0	644.9	554.8	472.8	429.2	443.0	451.0	449.6	447.3
67.5°	4124.3	2332.7	802.5	575.9	506.2	435.8	400.2	416.1	422.6	427.8	426.3
70°	3061.1	1644.9	663.8	503.3	447.3	392.2	362.4	370.4	366.0	371.9	374.0
72.5°	1706.7	987.0	541.0	430.7	386.3	341.3	320.3	318.8	309.4	309.4	309.4
74°	1024.0	724.1	475.6	385.7	349.3	308.0	289.8	283.2	274.5	275.3	274.5
75°	823.6	622.4	436.4	355.9	323.2	288.3	270.1	261.5	254.9	254.9	254.2
77.5°	520.0	472.8	351.5	283.2	258.5	237.5	225.2	213.5	213.5	212.8	212.0
80°	392.9	376.2	273.8	214.3	198.2	182.3	174.3	169.2	169.2	171.4	170.7
82.5°	269.4	283.2	192.5	149.6	141.6	130.0	128.6	129.3	127.1	124.2	123.4
85°	196.8	212.8	130.0	94.4	86.4	79.2	85.0	87.8	84.2	77.7	74.8
87.5°	75.5	139.5	69.7	39.2	36.3	31.2	36.3	37.7	40.7	32.0	32.7
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)