

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: P383080

Luminaire Tested: **GLEON-SA4B-735-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383080
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4B-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17786 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

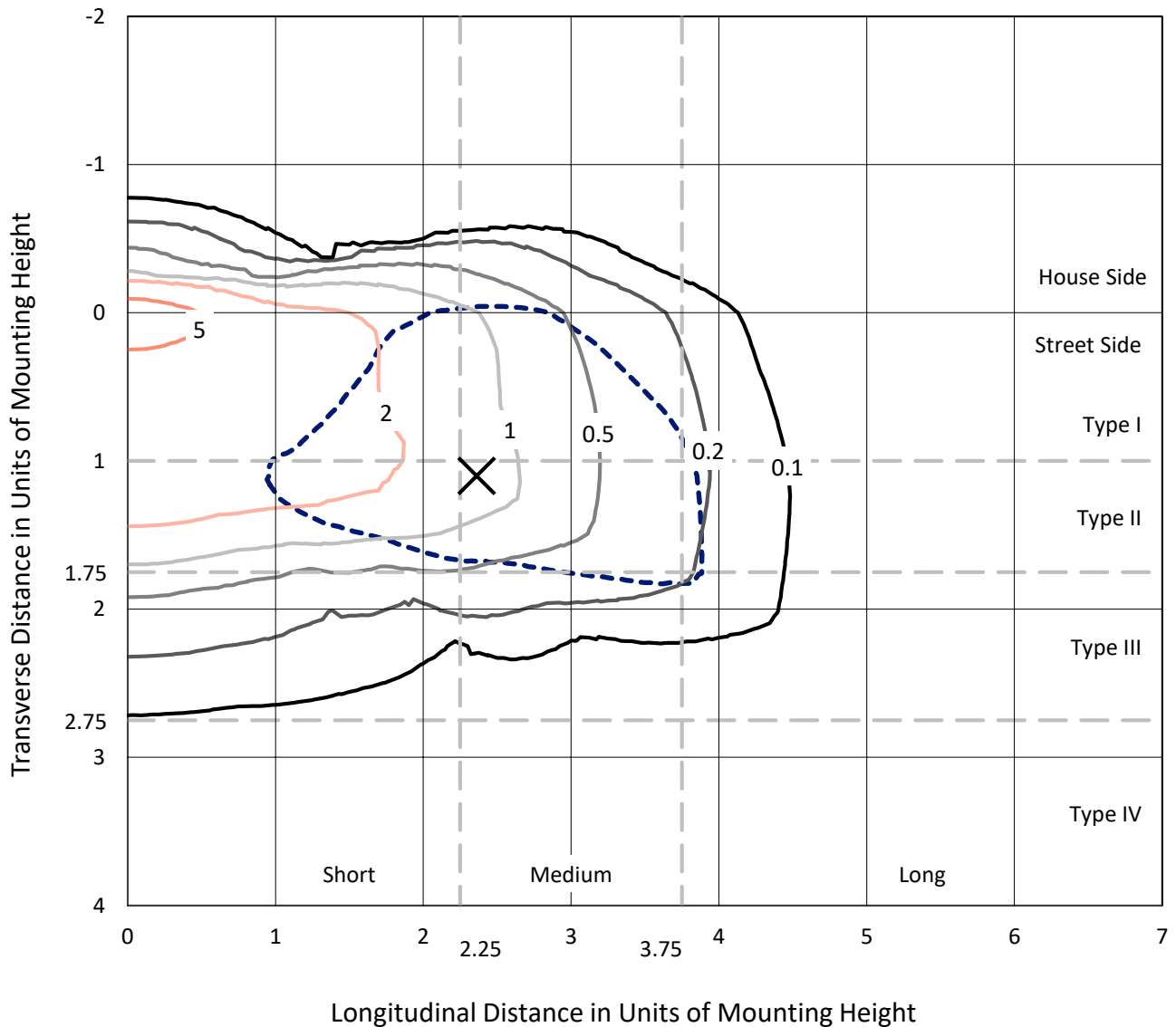
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

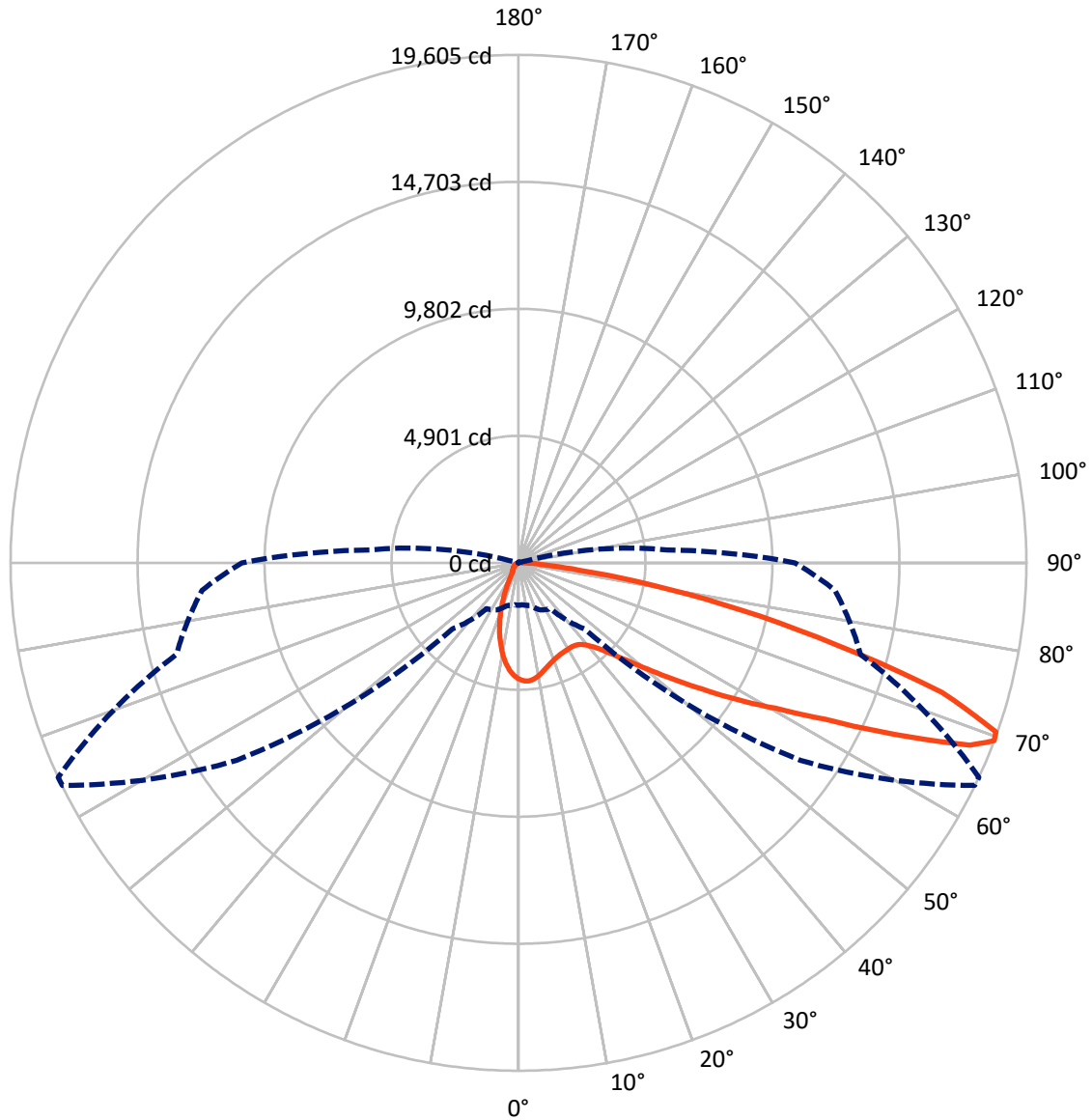
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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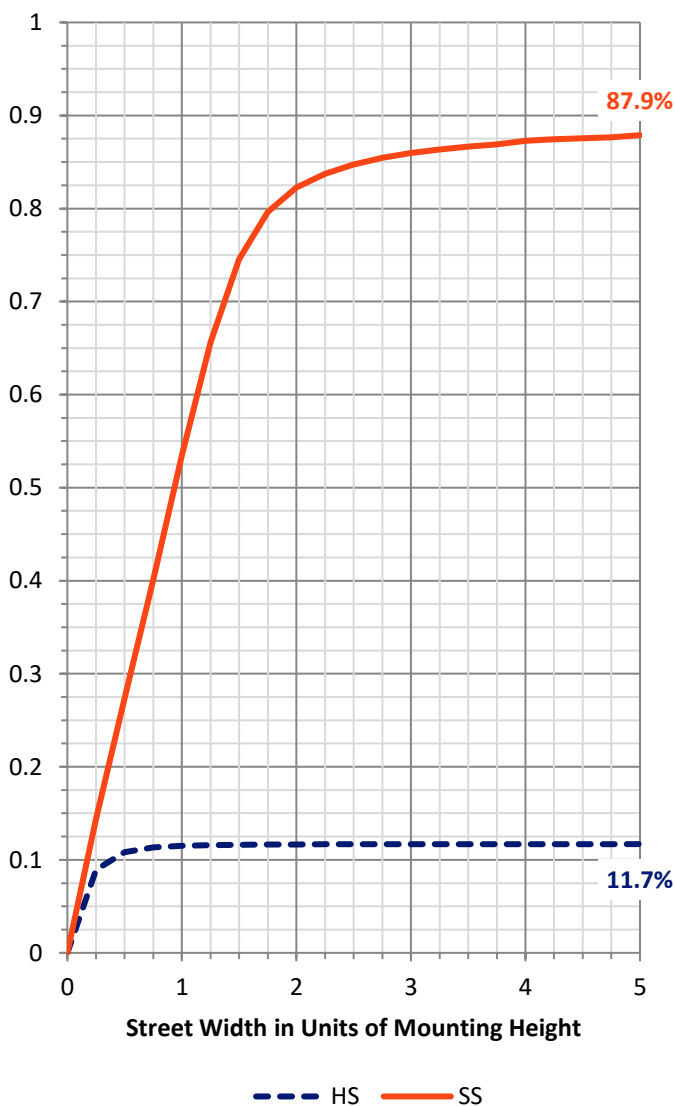
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2096.5	0.0	2096.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	15689.5	0.0	15689.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	17786.0	0.0	17786.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.8	2.1
10°-20°	822.7	4.6
20°-30°	1139.5	6.4
30°-40°	1588.8	8.9
40°-50°	2469.6	13.9
50°-60°	3964.6	22.3
60°-70°	4484.7	25.2
70°-80°	2633.9	14.8
80°-90°	306.4	1.7
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°	17786.0	100.0
0°-180°	17786.0	100.0

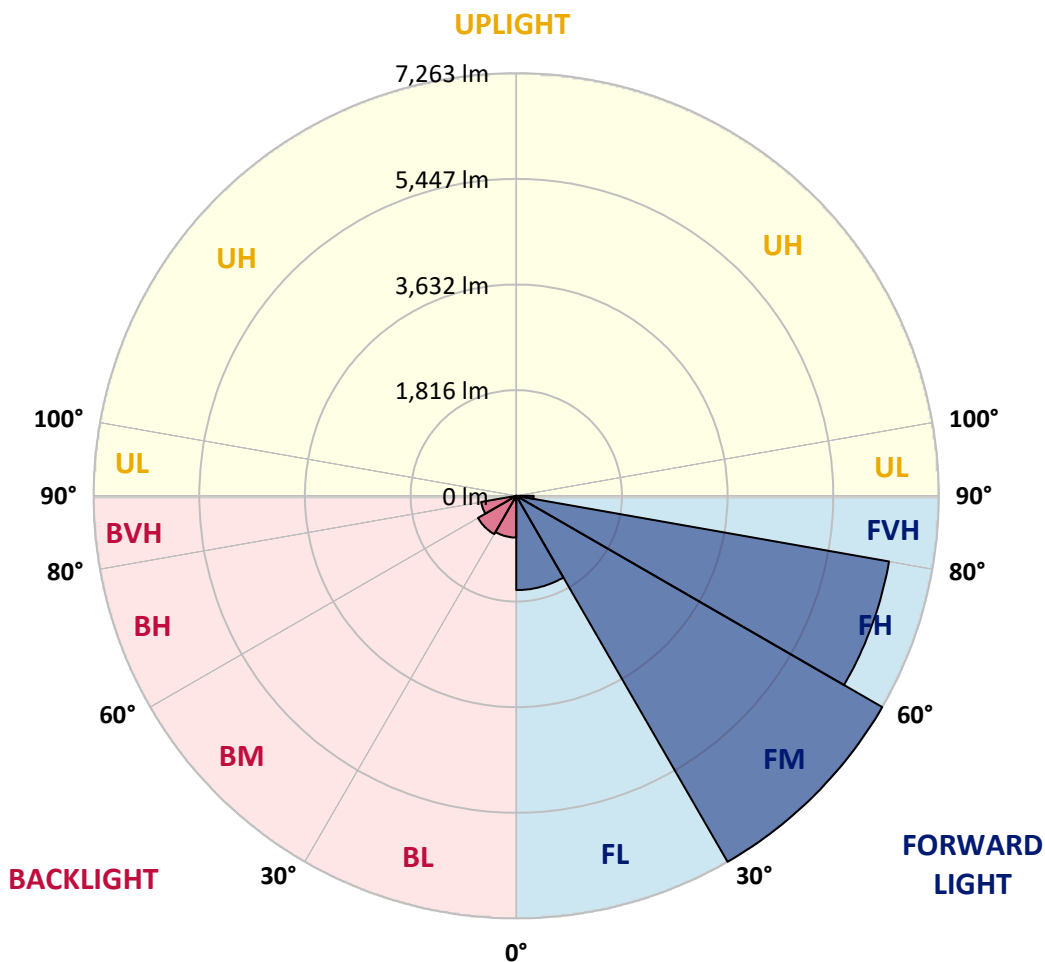


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1620.7	9.1			
FM (30°-60°)	7263.3	40.8			
FH (60°-80°)	6506.0	36.6			G3/7500
FVH (80°-90°)	299.5	1.7			G3/500
BL (0°-30°)	717.4	4.0	B2/1000		
BM (30°-60°)	759.7	4.3	B1/1000		
BH (60°-80°)	612.6	3.4	B2/1000		G2/1000
BVH (80°-90°)	6.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4494.5	4494.5	4494.5	4494.5	4494.5	4494.5	4494.5	4494.5	4494.5	4494.5	4494.5
2.5°	4534.5	4523.1	4532.2	4551.7	4561.5	4561.5	4569.1	4560.0	4563.1	4541.2	4509.6
5°	4250.7	4233.4	4258.3	4313.2	4380.9	4438.8	4524.7	4569.8	4574.4	4575.1	4538.2
7.5°	3945.2	3929.4	3966.3	4031.0	4118.3	4225.9	4375.7	4506.6	4514.1	4584.9	4557.8
10°	3696.8	3685.5	3728.4	3797.6	3900.0	4020.5	4204.1	4386.2	4408.0	4564.6	4554.8
12.5°	3499.6	3490.6	3531.2	3611.0	3715.6	3848.8	4040.8	4252.2	4281.6	4518.7	4539.7
15°	3355.9	3354.4	3388.2	3465.0	3580.9	3705.0	3901.5	4128.1	4161.9	4469.0	4537.5
17.5°	3280.6	3282.9	3307.7	3373.1	3472.5	3596.0	3784.1	4023.4	4060.3	4424.6	4548.7
20°	3273.1	3275.3	3288.9	3325.8	3406.3	3515.4	3688.6	3935.4	3973.8	4391.5	4566.8
22.5°	3339.3	3337.8	3341.6	3337.8	3383.0	3465.7	3625.3	3867.6	3912.0	4369.6	4581.1
25°	3466.5	3464.2	3462.7	3434.9	3404.8	3449.1	3598.9	3829.2	3871.4	4353.9	4589.4
27.5°	3643.4	3641.9	3639.6	3593.7	3503.4	3475.5	3602.0	3815.0	3850.4	4341.0	4587.9
30°	3875.9	3886.4	3883.4	3819.4	3678.8	3556.1	3633.6	3807.4	3838.3	4316.2	4572.0
32.5°	4149.1	4170.2	4186.7	4118.3	3942.1	3715.6	3706.6	3815.7	3838.3	4297.4	4543.4
35°	4432.9	4460.0	4520.9	4496.9	4265.0	3955.7	3832.3	3865.4	3884.2	4307.9	4529.9
37.5°	4712.0	4744.5	4876.9	4946.9	4688.0	4273.3	4027.9	3988.0	3997.8	4371.8	4545.0
40°	5036.4	5085.3	5286.3	5399.2	5193.0	4698.5	4320.7	4198.8	4202.6	4512.6	4615.0
42.5°	5462.4	5512.8	5730.3	5907.2	5762.0	5235.9	4718.1	4520.9	4517.2	4776.0	4779.8
45°	5981.7	6034.4	6259.4	6455.8	6390.4	5872.6	5226.8	4991.3	4986.8	5191.5	5092.1
47.5°	6570.2	6622.2	6823.1	7025.5	7096.3	6616.1	5874.8	5633.3	5622.7	5768.7	5574.6
50°	7075.3	7109.1	7294.3	7566.7	7885.8	7529.8	6680.9	6448.4	6437.0	6535.6	6282.7
52.5°	7258.9	7278.5	7466.6	7848.2	8644.4	8767.1	7739.8	7440.3	7432.0	7474.9	7225.7
55°	6887.1	6922.5	7153.5	7719.5	9055.4	10165.4	9076.4	8668.5	8606.0	8513.5	8211.7
57.5°	5874.1	5930.5	6178.9	6931.5	8863.4	11274.8	11040.7	10057.8	9966.0	9400.1	9013.2
60°	4401.3	4470.5	4676.6	5488.8	7839.2	11669.9	13187.2	11606.0	11399.0	10106.0	9750.0
62.5°	3020.2	3054.8	3194.8	3723.9	5773.3	11022.6	14982.9	13679.4	13301.6	10873.7	10547.0
65°	2306.7	2318.8	2376.0	2558.1	3437.9	8953.8	15697.1	16415.1	15958.2	11791.8	11374.1
67.5°	1858.9	1849.1	1928.2	2188.6	2302.2	5462.4	14864.0	19003.3	18789.6	13019.3	12206.5
69°	1639.2	1625.6	1706.1	2008.7	2162.2	3611.0	13288.0	19591.1	19604.6	13667.3	12263.7
70°	1475.1	1484.1	1563.9	1901.8	2114.8	2834.3	11782.8	19441.3	19548.2	13909.7	11920.5
72.5°	985.2	1009.2	1169.6	1579.0	2033.6	2144.9	7114.4	16683.0	17093.9	13364.0	10227.2
75°	555.4	573.5	763.9	1190.6	1916.1	2042.6	3757.8	12290.8	12688.1	11175.4	7886.6
77.5°	272.5	282.3	432.0	768.4	1602.3	1946.3	2131.4	8348.6	8802.5	7294.3	4460.7
80°	115.1	120.4	216.0	474.2	1145.4	1857.4	1582.7	5138.0	5194.5	2857.6	1188.4
82.5°	44.4	45.9	91.1	295.8	727.7	1448.0	1323.8	2436.2	2377.5	538.2	270.9
85°	5.3	6.1	33.1	177.6	404.9	745.1	1075.5	1049.9	971.6	106.8	139.3
87.5°	0.0	0.0	2.2	54.2	120.4	349.2	559.2	435.8	392.8	34.7	72.3
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°	4494.5	4494.5	4494.5	4494.5	4494.5	4494.5	4494.5	4494.5	4494.5	4494.5	4494.5
2.5°	4483.3	4475.7	4435.1	4376.4	4320.7	4251.5	4185.3	4145.4	4113.7	4092.7	4117.5
5°	4495.3	4462.2	4338.8	4180.7	4025.7	3851.1	3688.6	3550.8	3496.6	3436.4	3463.5
7.5°	4491.5	4429.0	4207.1	3925.6	3641.1	3346.9	3068.3	2853.9	2742.5	2633.4	2661.2
10°	4472.7	4367.4	4031.0	3614.0	3188.0	2765.1	2370.0	2069.7	1901.8	1749.8	1771.6
12.5°	4431.4	4284.6	3823.3	3257.2	2687.5	2129.9	1667.0	1282.5	1076.2	985.2	996.5
15°	4406.5	4204.1	3603.5	2896.0	2153.2	1483.4	1019.0	757.9	663.8	633.7	637.5
17.5°	4394.5	4126.6	3376.2	2482.9	1606.8	944.5	658.5	581.0	560.7	555.4	557.0
20°	4382.5	4048.2	3142.1	2074.2	1107.1	635.2	541.1	518.5	511.0	504.2	505.7
22.5°	4362.1	3973.1	2890.8	1660.2	746.5	515.5	487.7	465.9	450.0	441.7	443.3
25°	4337.3	3894.0	2634.1	1236.5	544.9	459.8	433.5	402.6	383.8	368.8	369.5
27.5°	4297.4	3796.9	2369.2	900.2	457.6	411.7	376.3	342.4	310.9	293.5	293.5
30°	4241.7	3687.0	2074.9	644.3	410.2	364.2	321.4	279.2	245.4	229.5	228.0
32.5°	4179.9	3572.6	1777.7	488.4	372.5	319.9	270.9	226.6	196.5	183.6	182.9
35°	4127.3	3449.1	1481.2	409.4	334.9	276.9	223.5	185.9	161.8	151.3	150.5
37.5°	4093.4	3325.8	1192.1	365.7	301.1	237.1	187.4	153.5	136.2	127.9	127.2
40°	4088.2	3234.0	928.0	332.7	269.4	201.7	156.5	130.2	114.4	105.4	104.6
42.5°	4156.7	3181.2	712.0	304.8	237.1	170.8	133.2	111.4	94.8	85.8	85.1
45°	4336.5	3197.8	547.9	279.9	204.8	144.5	112.9	92.6	77.5	70.7	69.2
47.5°	4664.6	3312.2	435.8	255.2	173.8	122.7	96.3	76.8	64.0	57.2	56.5
50°	5248.7	3580.9	364.2	228.0	145.2	104.6	79.7	62.5	51.9	45.9	45.2
52.5°	6023.9	4059.6	325.1	201.7	120.4	88.8	65.5	49.7	40.6	36.1	35.4
55°	6878.8	4639.1	299.5	173.1	98.6	73.8	51.9	39.1	31.6	27.9	26.4
57.5°	7713.5	5141.0	275.5	145.2	82.1	60.2	41.4	30.8	24.9	21.1	20.3
60°	8480.3	5602.4	247.6	116.6	67.0	47.4	32.3	24.1	19.6	15.8	15.8
62.5°	9301.5	5959.1	209.2	91.1	55.0	36.1	26.4	21.8	15.8	13.5	12.8
65°	10171.5	6224.0	164.0	70.7	42.9	27.1	21.8	22.5	12.8	9.8	9.0
67.5°	10814.1	6171.4	121.2	55.7	33.1	21.1	21.1	24.1	11.3	7.5	6.8
69°	10672.7	5743.2	101.6	48.2	28.6	18.1	19.6	24.1	10.5	6.8	6.1
70°	10262.6	5269.0	89.5	42.9	25.6	16.6	18.8	23.3	9.8	6.8	6.1
72.5°	8546.6	3968.5	70.0	32.3	20.3	13.5	15.8	20.3	9.8	6.8	5.3
75°	6428.8	2540.1	53.5	23.3	15.1	10.5	12.0	15.1	9.8	6.1	5.3
77.5°	3498.1	915.9	38.4	15.8	10.5	8.3	8.3	11.3	9.0	4.5	3.0
80°	899.4	230.3	24.1	10.5	8.3	6.1	5.3	7.5	5.3	0.7	0.0
82.5°	222.0	51.9	12.8	7.5	6.1	2.2	2.2	3.7	2.2	0.0	0.0
85°	121.9	25.6	8.3	5.3	3.0	0.0	0.0	0.7	0.0	0.0	0.0
87.5°	62.5	7.5	2.2	1.5	0.7	0.0	0.0	0.0	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)