

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: P383024

Luminaire Tested: **GLEON-SA3D-735-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383024
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-SA3D-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA 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: 18277.9 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

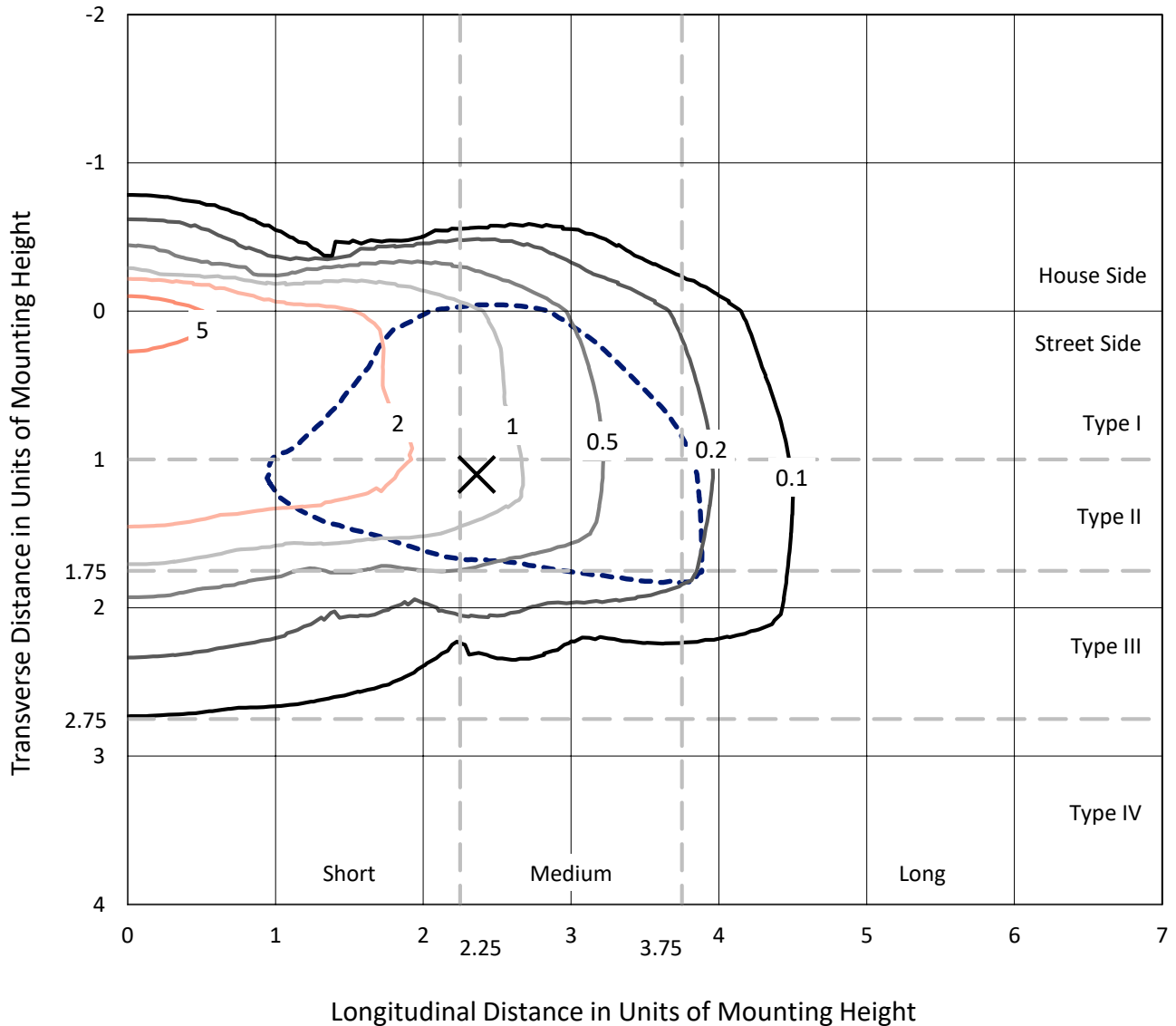
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

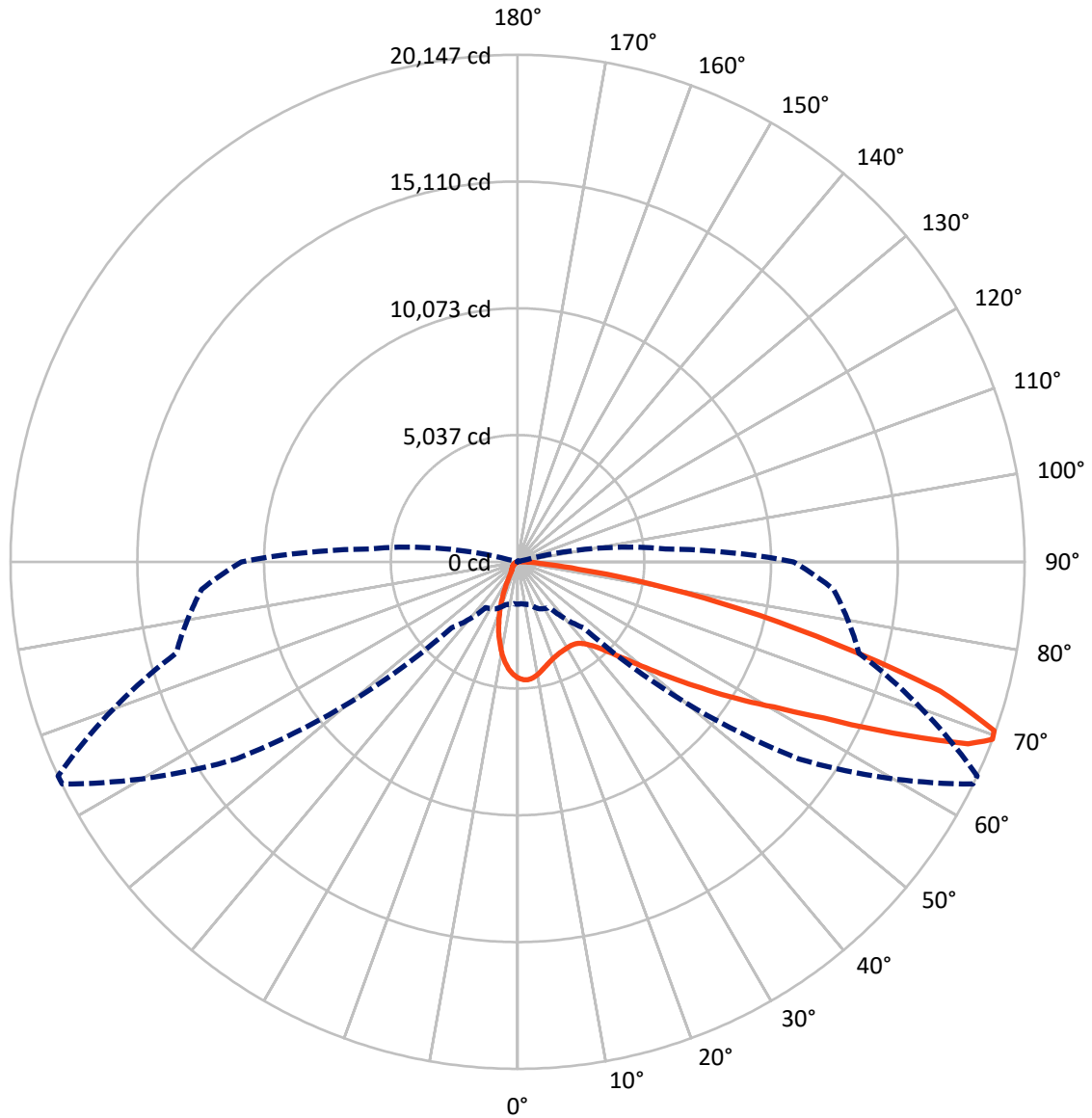
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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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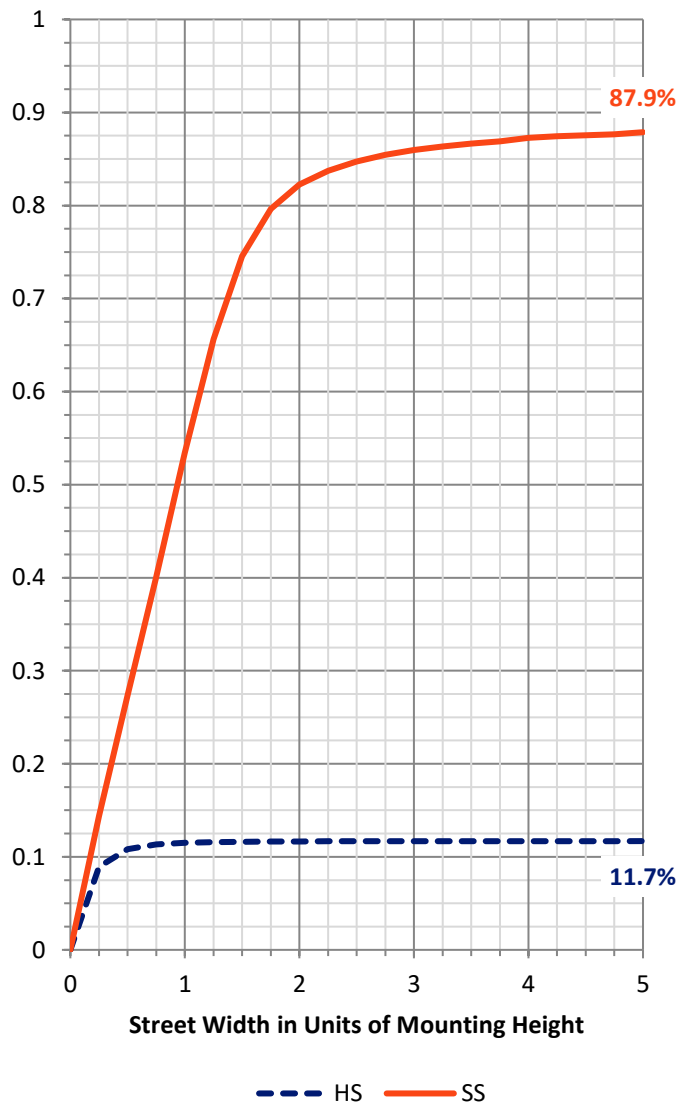
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2154.5	0.0	2154.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	16123.4	0.0	16123.4
	% Fixture	88.2	0.0	88.2
Total	Lumens	18277.9	0.0	18277.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.2	2.1
10°-20°	845.5	4.6
20°-30°	1171.0	6.4
30°-40°	1632.8	8.9
40°-50°	2537.9	13.9
50°-60°	4074.3	22.3
60°-70°	4608.7	25.2
70°-80°	2706.7	14.8
80°-90°	314.9	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°	18277.9	100.0
0°-180°	18277.9	100.0

Coefficient of Utilization

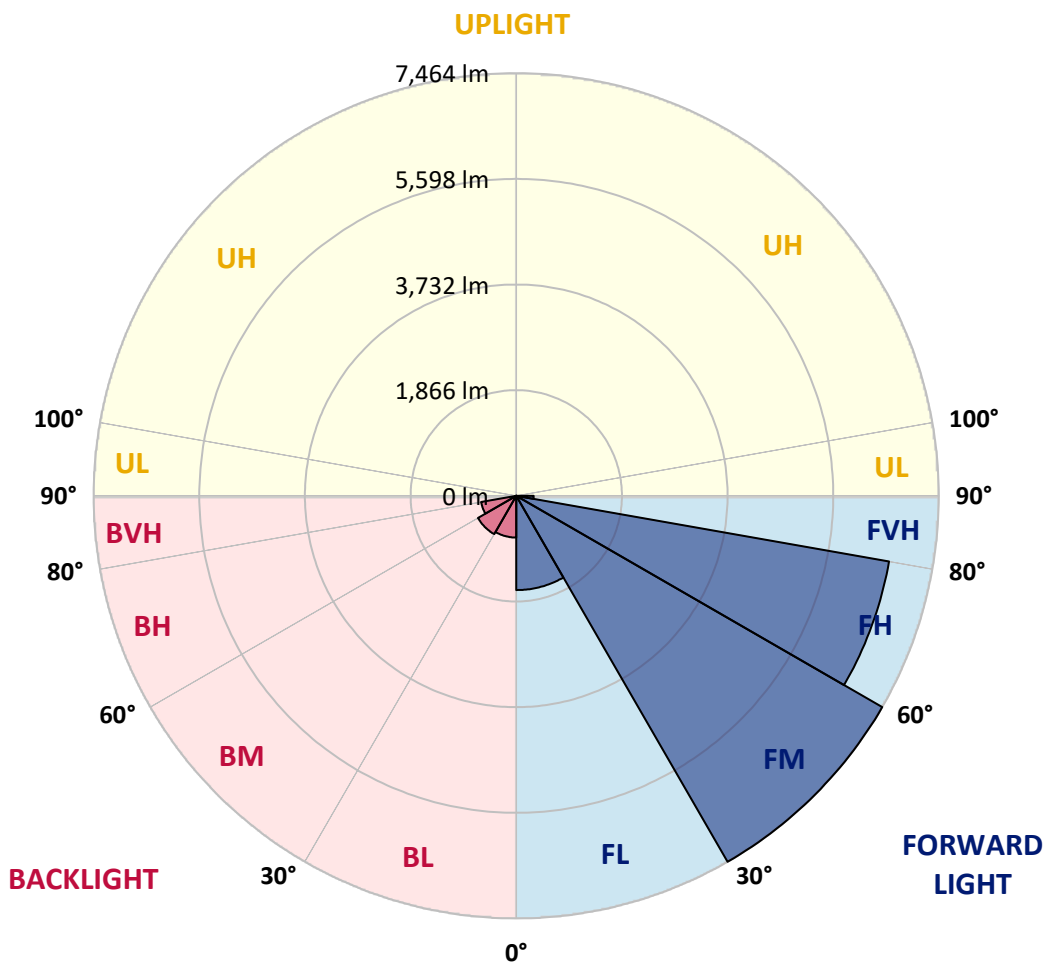


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1665.5	9.1			
FM (30°-60°)	7464.2	40.8			
FH (60°-80°)	6685.9	36.6			G3/7500
FVH (80°-90°)	307.8	1.7			G3/500
BL (0°-30°)	737.2	4.0	B2/1000		
BM (30°-60°)	780.7	4.3	B1/1000		
BH (60°-80°)	629.5	3.4	B2/1000		G2/1000
BVH (80°-90°)	7.1	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°	4618.9	4618.9	4618.9	4618.9	4618.9	4618.9	4618.9	4618.9	4618.9	4618.9	4618.9
2.5°	4659.9	4648.2	4657.6	4677.7	4687.7	4687.7	4695.5	4686.2	4689.2	4666.8	4634.4
5°	4368.3	4350.5	4376.0	4432.5	4502.1	4561.6	4649.8	4696.2	4700.9	4701.6	4663.7
7.5°	4054.3	4038.0	4075.9	4142.4	4232.1	4342.8	4496.7	4631.2	4638.9	4711.7	4683.8
10°	3799.0	3787.4	3831.5	3902.6	4007.9	4131.6	4320.3	4507.5	4529.9	4690.8	4680.7
12.5°	3596.4	3587.1	3628.8	3710.8	3818.4	3955.3	4152.5	4369.8	4400.0	4643.6	4665.3
15°	3448.7	3447.1	3481.9	3560.8	3679.9	3807.5	4009.4	4242.2	4277.0	4592.5	4663.0
17.5°	3371.4	3373.7	3399.2	3466.5	3568.6	3695.4	3888.7	4134.7	4172.6	4546.9	4674.5
20°	3363.6	3366.0	3379.8	3417.8	3500.5	3612.6	3790.6	4044.2	4083.6	4512.9	4693.1
22.5°	3431.6	3430.1	3434.0	3430.1	3476.5	3561.6	3725.5	3974.6	4020.2	4490.4	4707.8
25°	3562.3	3560.0	3558.5	3529.9	3499.0	3544.5	3698.5	3935.1	3978.5	4474.2	4716.3
27.5°	3744.1	3742.6	3740.3	3693.1	3600.2	3571.6	3701.6	3920.4	3956.8	4461.1	4714.7
30°	3983.1	3993.9	3990.8	3925.1	3780.5	3654.4	3734.1	3912.7	3944.5	4435.6	4698.5
32.5°	4263.9	4285.5	4302.5	4232.1	4051.2	3818.4	3809.1	3921.3	3944.5	4416.2	4669.1
35°	4555.5	4583.3	4645.9	4621.2	4382.9	4065.1	3938.2	3972.3	3991.6	4427.1	4655.2
37.5°	4842.4	4875.6	5011.7	5083.6	4817.6	4391.5	4139.3	4098.3	4108.4	4492.8	4670.7
40°	5175.7	5226.0	5432.5	5548.5	5336.6	4828.5	4440.2	4314.9	4318.7	4637.4	4742.6
42.5°	5613.5	5665.3	5888.8	6070.5	5921.3	5380.7	4848.5	4645.9	4642.1	4908.1	4912.0
45°	6147.1	6201.3	6432.5	6634.4	6567.1	6035.0	5371.4	5129.3	5124.6	5335.1	5233.0
47.5°	6752.0	6805.3	7011.9	7219.9	7292.5	6799.1	6037.3	5789.0	5778.2	5928.3	5728.7
50°	7270.9	7305.8	7496.0	7775.9	8103.9	7738.1	6865.6	6626.7	6615.0	6716.4	6456.5
52.5°	7459.6	7479.8	7673.1	8065.2	8883.5	9009.6	7953.8	7646.0	7637.5	7681.6	7425.6
55°	7077.5	7113.9	7351.3	7933.0	9305.8	10446.6	9327.4	8908.2	8844.0	8748.9	8438.8
57.5°	6036.5	6094.6	6349.8	7123.2	9108.6	11586.6	11346.1	10336.0	10241.6	9660.0	9262.5
60°	4522.9	4594.1	4806.0	5640.5	8055.9	11992.7	13551.9	11926.9	11714.2	10385.5	10019.6
62.5°	3103.7	3139.3	3283.1	3826.9	5932.9	11327.5	15397.2	14057.6	13669.4	11174.4	10838.6
65°	2370.5	2382.9	2441.7	2628.8	3533.0	9201.4	16131.2	16869.0	16399.5	12117.9	11688.7
67.5°	1910.3	1900.3	1981.5	2249.1	2365.9	5613.5	15275.1	19528.8	19309.2	13379.4	12544.0
69°	1684.5	1670.5	1753.4	2064.2	2222.0	3710.8	13655.5	20132.9	20146.8	14045.3	12602.8
70°	1515.9	1525.2	1607.2	1954.4	2173.3	2912.7	12108.6	19979.0	20088.7	14294.3	12250.2
72.5°	1012.4	1037.2	1201.9	1622.7	2089.7	2204.2	7311.2	17144.4	17566.7	13733.6	10510.0
75°	570.8	589.4	785.0	1223.6	1969.1	2099.1	3861.6	12630.7	13039.1	11484.5	8104.7
77.5°	280.0	290.0	444.0	789.7	1646.6	2000.0	2190.3	8579.6	9045.9	7496.0	4584.1
80°	118.3	123.7	222.0	487.3	1177.1	1908.8	1626.5	5280.1	5338.1	2936.7	1221.3
82.5°	45.6	47.1	93.6	304.0	747.9	1488.1	1360.4	2503.5	2443.3	553.0	278.4
85°	5.4	6.1	34.0	182.5	416.1	765.6	1105.2	1078.9	998.5	109.8	143.1
87.5°	0.0	0.0	2.3	55.7	123.7	358.8	574.7	447.8	403.7	35.6	74.2
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°	4618.9	4618.9	4618.9	4618.9	4618.9	4618.9	4618.9	4618.9	4618.9	4618.9	4618.9
2.5°	4607.2	4599.5	4557.8	4497.4	4440.2	4369.1	4301.0	4260.0	4227.5	4205.8	4231.4
5°	4619.6	4585.6	4458.8	4296.3	4137.0	3957.6	3790.6	3649.0	3593.3	3531.4	3559.3
7.5°	4615.7	4551.5	4323.4	4034.2	3741.8	3439.4	3153.2	2932.8	2818.3	2706.1	2734.8
10°	4596.4	4488.1	4142.4	3714.0	3276.2	2841.5	2435.5	2126.9	1954.4	1798.2	1820.6
12.5°	4553.9	4403.1	3929.0	3347.3	2761.9	2188.8	1713.1	1317.9	1106.0	1012.4	1024.1
15°	4528.3	4320.3	3703.1	2976.1	2212.7	1524.4	1047.2	778.9	682.2	651.2	655.1
17.5°	4516.0	4240.7	3469.5	2551.5	1651.3	970.7	676.8	597.1	576.2	570.8	572.3
20°	4503.7	4160.2	3229.0	2131.6	1137.7	652.7	556.1	532.8	525.1	518.2	519.7
22.5°	4482.7	4082.9	2970.7	1706.1	767.2	529.8	501.2	478.7	462.5	454.0	455.5
25°	4457.2	4001.6	2707.0	1270.7	560.0	472.6	445.5	413.8	394.4	379.0	379.8
27.5°	4416.2	3901.9	2434.7	925.0	470.2	423.0	386.7	351.9	319.4	301.6	301.6
30°	4359.0	3789.0	2132.3	662.1	421.5	374.3	330.2	286.9	252.2	235.9	234.4
32.5°	4295.6	3671.4	1826.9	501.9	382.9	328.7	278.4	232.8	201.9	188.7	188.0
35°	4241.4	3544.5	1522.1	420.8	344.2	284.6	229.7	191.1	166.3	155.5	154.7
37.5°	4206.6	3417.8	1225.1	375.9	309.4	243.6	192.6	157.8	140.0	131.4	130.7
40°	4201.2	3323.4	953.6	341.9	276.9	207.3	160.9	133.8	117.6	108.2	107.5
42.5°	4271.6	3269.3	731.6	313.3	243.6	175.6	136.9	114.5	97.4	88.1	87.4
45°	4456.4	3286.2	563.0	287.8	210.3	148.5	116.0	95.1	79.6	72.7	71.2
47.5°	4793.7	3403.8	447.8	262.2	178.7	126.0	99.0	78.9	65.8	58.8	58.0
50°	5393.8	3679.9	374.3	234.4	149.2	107.5	82.0	64.2	53.4	47.1	46.4
52.5°	6190.4	4171.8	334.1	207.3	123.7	91.3	67.3	51.0	41.7	37.2	36.3
55°	7069.0	4767.4	307.8	177.9	101.4	75.8	53.4	40.2	32.5	28.6	27.1
57.5°	7926.7	5283.2	283.1	149.2	84.3	61.9	42.6	31.7	25.5	21.6	20.9
60°	8714.9	5757.3	254.5	119.9	68.8	48.7	33.3	24.8	20.1	16.2	16.2
62.5°	9558.7	6123.9	215.0	93.6	56.5	37.2	27.1	22.5	16.2	13.9	13.1
65°	10452.7	6396.2	168.6	72.7	44.1	27.9	22.5	23.2	13.1	10.1	9.3
67.5°	11113.3	6342.1	124.5	57.2	34.0	21.6	21.6	24.8	11.6	7.7	7.0
69°	10967.9	5901.9	104.4	49.5	29.3	18.5	20.1	24.8	10.8	7.0	6.1
70°	10546.3	5414.7	92.0	44.1	26.3	17.0	19.4	23.9	10.1	7.0	6.1
72.5°	8782.9	4078.2	71.9	33.3	20.9	13.9	16.2	20.9	10.1	7.0	5.4
75°	6606.5	2610.3	54.9	23.9	15.5	10.8	12.4	15.5	10.1	6.1	5.4
77.5°	3594.8	941.2	39.4	16.2	10.8	8.5	8.5	11.6	9.3	4.7	3.1
80°	924.3	236.7	24.8	10.8	8.5	6.1	5.4	7.7	5.4	0.7	0.0
82.5°	228.1	53.4	13.1	7.7	6.1	2.3	2.3	3.9	2.3	0.0	0.0
85°	125.3	26.3	8.5	5.4	3.1	0.0	0.0	0.7	0.0	0.0	0.0
87.5°	64.2	7.7	2.3	1.6	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)