

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: P383197

Luminaire Tested: **GLEON-SA5B-735-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383197
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-SA5B-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA 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: 25282.2 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

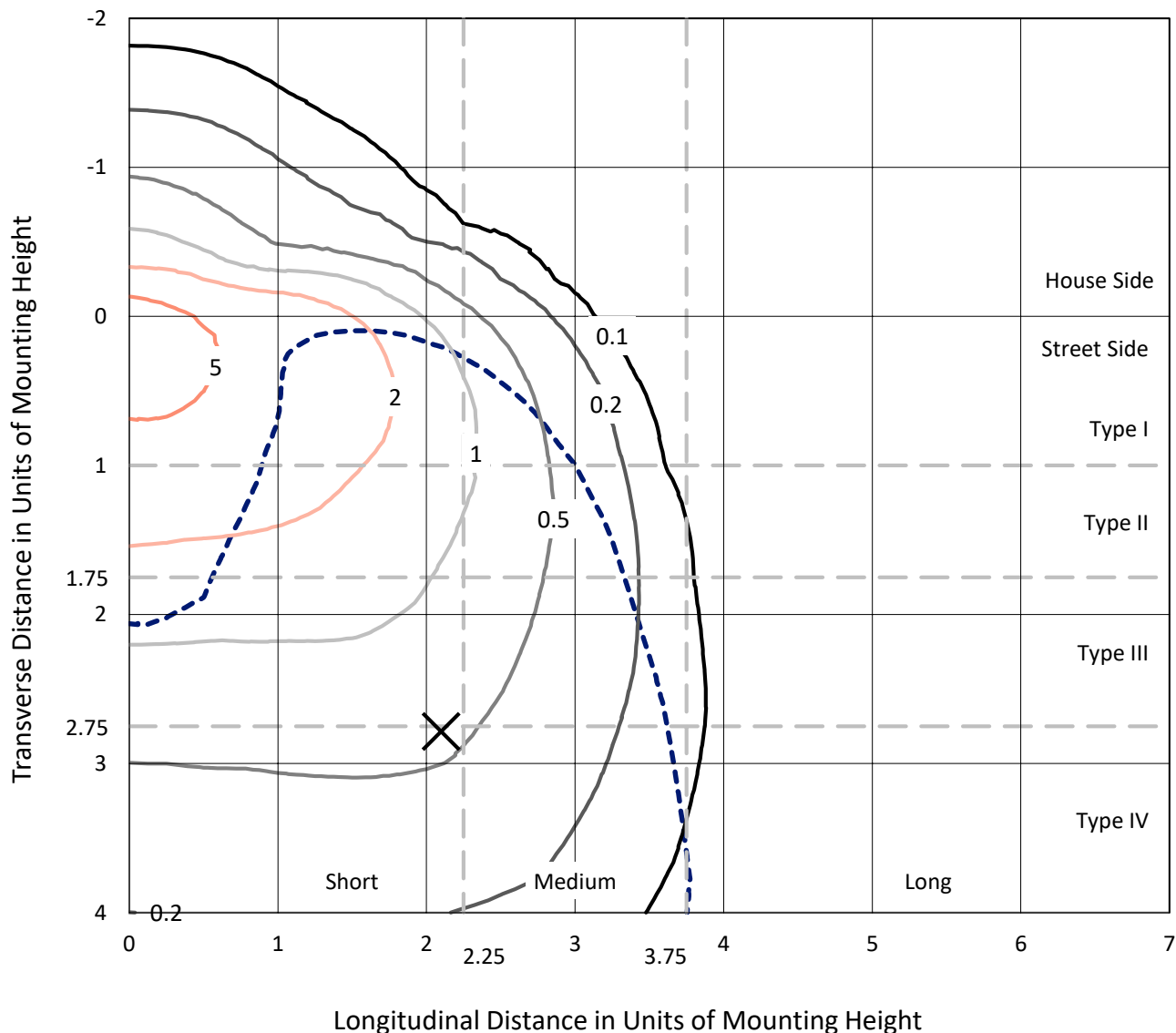
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

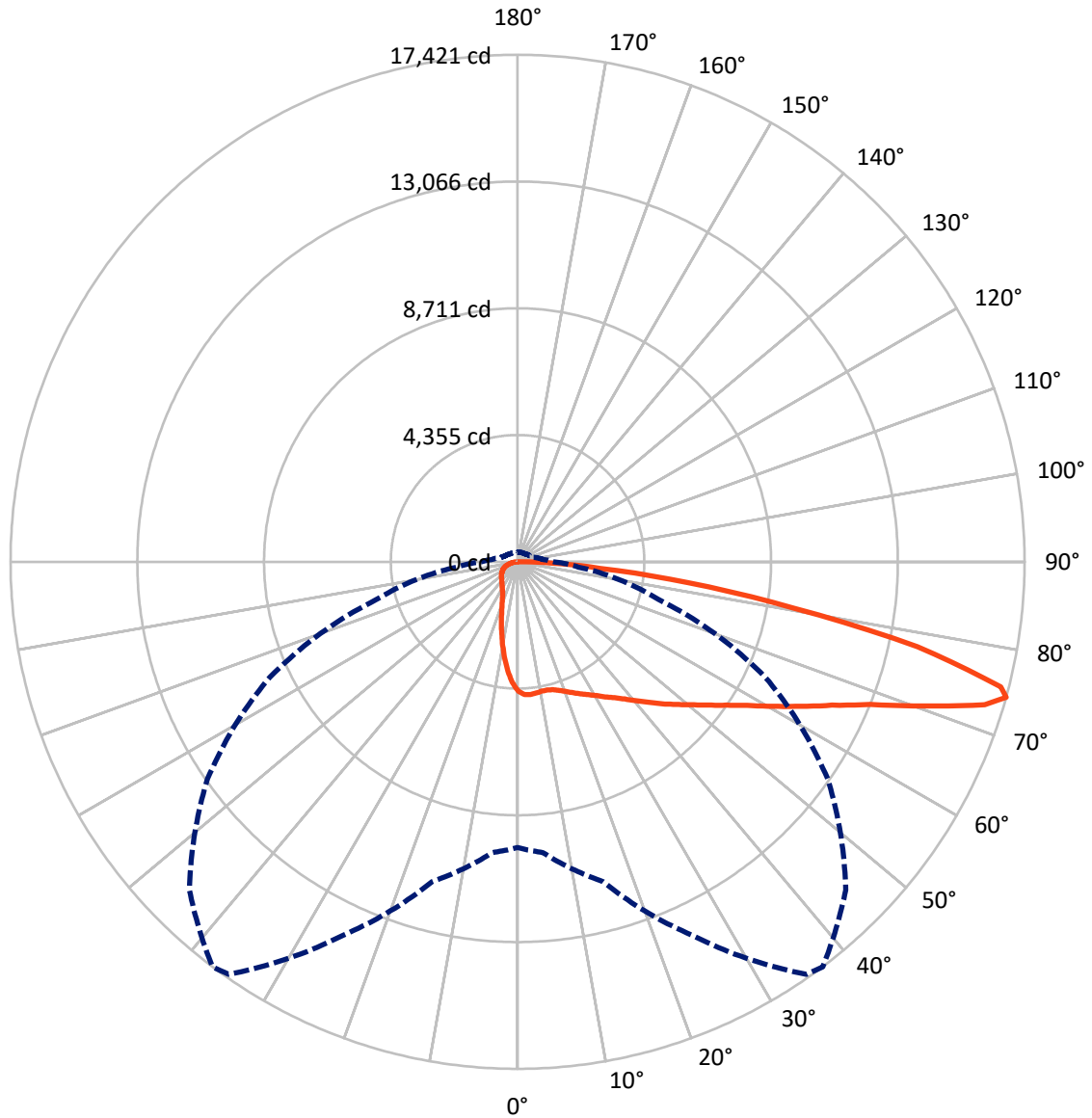
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type 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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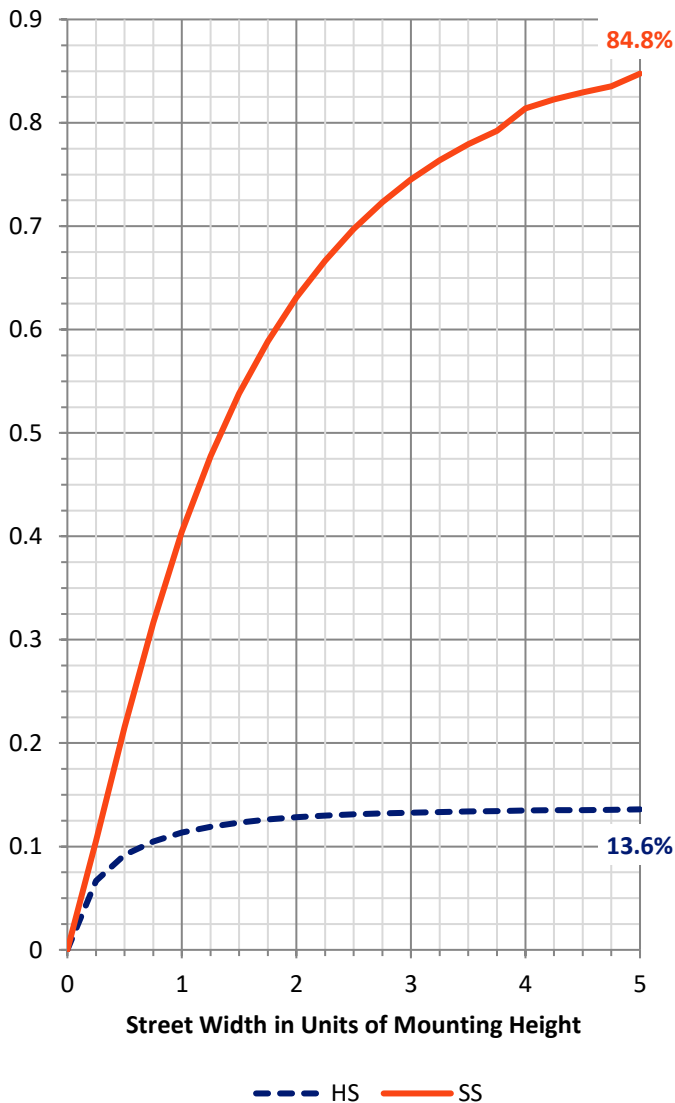
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3478.7	0.0	3478.7
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	21803.6	0.0	21803.6
	% Fixture	86.2	0.0	86.2
Total	Lumens	25282.2	0.0	25282.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.3	1.6
10°-20°	1005.5	4.0
20°-30°	1549.3	6.1
30°-40°	2252.9	8.9
40°-50°	3315.9	13.1
50°-60°	4656.6	18.4
60°-70°	5893.8	23.3
70°-80°	5189.7	20.5
80°-90°	1026.1	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°	25282.2	100.0
0°-180°	25282.2	100.0



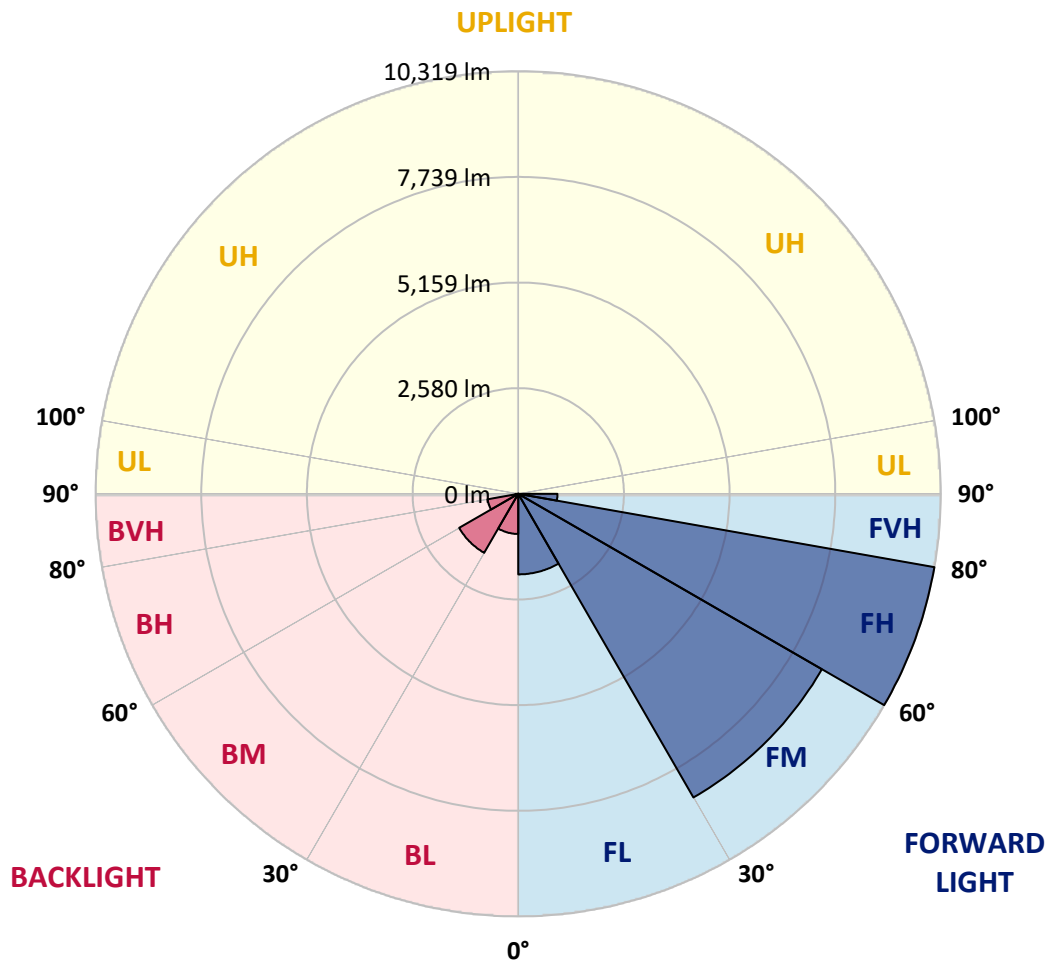
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1967.3	7.8			
FM (30°-60°)	8560.8	33.9			
FH (60°-80°)	10318.9	40.8			G4/12000
FVH (80°-90°)	956.6	3.8			G5
BL (0°-30°)	979.9	3.9	B2/1000		
BM (30°-60°)	1664.7	6.6	B2/2500		
BH (60°-80°)	764.6	3.0	B2/1000		G2/1000
BVH (80°-90°)	69.5	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°	4454.7	4454.7	4454.7	4454.7	4454.7	4454.7	4454.7	4454.7	4454.7	4454.7	4454.7
2.5°	4606.9	4607.8	4606.9	4599.8	4582.8	4568.6	4557.0	4540.1	4502.7	4474.2	4431.5
5°	4650.6	4645.2	4641.6	4628.3	4601.6	4585.5	4563.3	4531.2	4469.8	4412.7	4343.3
7.5°	4630.1	4623.8	4615.8	4599.8	4569.5	4556.1	4525.0	4483.2	4409.2	4334.4	4234.6
10°	4566.8	4565.0	4561.5	4558.0	4532.1	4521.5	4492.9	4448.4	4375.4	4284.6	4167.8
12.5°	4496.5	4501.0	4515.2	4533.8	4522.3	4517.0	4499.2	4468.9	4394.1	4296.1	4155.4
15°	4452.0	4464.4	4502.7	4551.7	4561.5	4559.7	4555.3	4535.7	4456.4	4347.7	4183.9
17.5°	4436.8	4457.3	4530.3	4611.3	4639.9	4646.1	4647.9	4614.0	4525.8	4411.0	4213.3
20°	4464.4	4490.2	4597.1	4708.4	4753.9	4757.4	4749.4	4690.6	4591.8	4465.3	4229.3
22.5°	4548.1	4571.3	4704.9	4830.4	4882.1	4887.5	4863.4	4774.4	4661.3	4529.5	4251.6
25°	4709.3	4737.9	4871.4	4997.0	5023.7	5024.6	4989.8	4879.4	4752.1	4619.4	4299.7
27.5°	4919.5	4948.0	5068.3	5191.1	5176.9	5168.9	5121.6	5011.3	4870.5	4743.2	4385.2
30°	5153.7	5184.9	5298.9	5386.1	5352.3	5336.3	5298.0	5155.5	5035.3	4912.4	4516.0
32.5°	5396.0	5424.5	5524.2	5583.9	5541.1	5534.0	5476.1	5346.1	5249.9	5170.6	4728.1
35°	5644.4	5664.9	5762.8	5796.7	5739.7	5738.0	5721.9	5602.6	5542.1	5579.4	5036.1
37.5°	5898.3	5903.6	5987.3	5989.1	5972.2	5979.3	5996.2	5921.4	5938.3	6055.0	5436.9
40°	6124.5	6138.7	6199.3	6218.0	6247.3	6272.3	6356.9	6307.9	6438.9	6645.4	5935.6
42.5°	6291.9	6319.4	6416.6	6464.7	6560.0	6599.1	6718.4	6763.9	7027.5	7337.4	6528.8
45°	6433.5	6476.2	6632.1	6730.9	6892.1	6960.7	7131.6	7284.0	7692.7	8088.2	7153.1
47.5°	6586.7	6641.0	6836.0	7024.8	7243.9	7321.4	7632.2	7860.1	8402.6	8843.4	7741.7
50°	6811.9	6853.9	7044.4	7341.0	7614.4	7714.1	8144.2	8471.1	9123.9	9562.9	8252.0
52.5°	7126.3	7110.3	7271.5	7687.4	8054.3	8177.2	8691.1	9121.2	9855.0	10214.0	8683.0
55°	7442.5	7415.8	7528.9	8049.9	8567.3	8696.4	9293.1	9774.0	10550.6	10799.9	9013.5
57.5°	7794.3	7743.5	7838.8	8458.6	9151.5	9305.6	9967.3	10467.7	11234.6	11273.7	9223.6
60°	8156.7	8088.2	8195.0	8965.4	9893.3	10075.0	10756.3	11144.6	11879.3	11653.1	9291.3
62.5°	8473.7	8425.7	8590.5	9530.8	10729.6	10929.1	11531.1	11864.2	12515.2	11810.7	9047.3
65°	8750.8	8758.8	9043.7	10166.7	11662.0	11874.8	12419.9	12751.2	13015.7	11717.2	8476.4
67.5°	9081.1	9126.6	9612.8	11003.9	12835.8	13069.1	13712.9	13718.3	13295.3	11168.6	7352.5
70°	9562.9	9656.4	10395.6	12165.2	14504.7	14825.3	15322.3	14286.5	12902.6	9681.4	5785.1
72.5°	9990.4	10165.0	11228.3	13493.9	16538.8	16781.9	16263.6	13958.8	11261.2	7255.5	3604.2
74°	9816.7	10033.1	11379.7	14148.4	17304.6	17421.3	15945.7	13002.3	9389.3	5024.6	2094.6
75°	9442.7	9677.8	11158.8	14142.2	17207.5	17142.5	15178.0	11909.6	7732.8	3426.9	1393.8
77.5°	7620.6	7869.1	9402.7	12120.6	14109.3	14047.8	11659.3	7989.3	3386.8	1123.9	708.0
80°	4430.6	4620.3	5836.8	7697.2	9514.0	9625.3	7667.8	3953.2	1332.3	631.4	480.0
82.5°	1968.2	2099.1	2819.5	3929.2	5741.5	5884.9	4015.5	2071.5	822.9	383.8	288.5
85°	1291.3	1388.4	1711.7	1871.1	2734.1	2832.0	1965.5	1612.8	543.3	211.1	211.9
87.5°	928.8	1022.4	1271.7	1110.5	1254.8	1188.0	1069.6	1492.6	218.2	120.3	71.3
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°	4454.7	4454.7	4454.7	4454.7	4454.7	4454.7	4454.7	4454.7	4454.7	4454.7	4454.7
2.5°	4412.7	4398.5	4366.4	4305.9	4272.1	4243.6	4196.3	4168.8	4156.3	4155.4	4160.8
5°	4303.2	4270.3	4187.5	4086.0	4004.9	3930.9	3839.3	3784.0	3744.8	3721.7	3728.0
7.5°	4175.8	4124.2	3994.2	3832.1	3702.1	3558.7	3417.1	3332.5	3266.6	3217.7	3226.5
10°	4088.6	4017.4	3827.6	3594.4	3377.9	3169.5	2974.5	2857.8	2765.2	2693.9	2699.3
12.5°	4059.2	3963.0	3700.3	3388.6	3084.9	2800.0	2545.3	2366.2	2270.9	2189.9	2196.1
15°	4063.7	3934.6	3593.4	3203.4	2821.3	2462.5	2153.4	1944.1	1814.9	1758.9	1759.8
17.5°	4067.2	3901.6	3481.2	3004.8	2560.4	2147.1	1811.4	1599.5	1477.4	1425.8	1426.7
20°	4055.7	3848.1	3342.3	2776.8	2287.9	1857.7	1532.7	1352.8	1260.2	1220.0	1220.0
22.5°	4040.5	3784.9	3185.5	2547.9	2018.9	1606.5	1333.1	1196.0	1142.6	1115.9	1115.0
25°	4047.7	3737.7	3025.3	2312.8	1771.3	1406.2	1200.5	1109.7	1074.0	1057.1	1056.2
27.5°	4086.0	3715.5	2877.5	2078.6	1554.9	1255.7	1111.4	1047.3	1024.1	1013.4	1013.4
30°	4155.4	3715.5	2723.4	1879.1	1375.1	1144.4	1042.9	999.2	983.2	976.1	976.1
32.5°	4276.5	3736.0	2574.6	1681.4	1231.7	1057.1	985.9	956.5	944.0	940.4	940.4
35°	4484.9	3805.4	2429.5	1494.4	1115.9	985.9	931.5	914.6	905.7	904.8	907.5
37.5°	4777.9	3947.0	2293.2	1356.3	1033.9	928.0	886.1	872.8	867.5	871.8	875.5
40°	5146.6	4139.3	2169.4	1231.7	971.6	881.7	844.3	835.3	832.7	839.0	844.3
42.5°	5591.9	4399.4	2067.9	1141.7	923.5	842.5	808.7	798.0	795.3	802.4	809.5
45°	6073.7	4679.1	1996.7	1074.9	886.1	813.1	777.5	765.9	760.5	764.1	772.2
47.5°	6511.8	4943.5	1968.2	1027.7	850.5	788.2	749.9	735.6	726.7	724.9	731.2
50°	6881.4	5140.4	1981.5	999.2	822.0	760.5	723.2	707.1	693.7	685.7	690.2
52.5°	7150.4	5264.2	1994.0	986.8	799.7	730.2	693.7	678.6	660.8	647.4	647.4
55°	7345.4	5292.7	1966.4	976.9	782.8	697.4	660.8	646.6	628.7	613.6	611.8
57.5°	7422.0	5212.5	1863.9	962.7	771.2	666.1	626.1	615.4	600.3	582.4	581.6
60°	7318.7	4965.0	1666.3	932.4	756.1	640.3	591.3	584.2	577.1	560.1	559.3
62.5°	6903.7	4421.7	1410.6	871.0	725.8	612.7	559.3	562.8	563.8	552.1	550.4
65°	6151.2	3675.4	1161.3	790.8	680.4	579.8	526.3	543.3	553.1	551.3	548.6
67.5°	5057.6	2860.5	984.1	706.2	620.7	534.3	490.7	510.3	518.3	524.6	522.8
70°	3753.8	2017.2	814.0	617.2	548.6	480.9	444.3	454.2	448.8	456.0	458.6
72.5°	2092.8	1210.3	663.4	528.1	473.8	418.5	392.7	391.0	379.4	379.4	379.4
74°	1255.7	887.9	583.3	472.9	428.3	377.6	355.3	347.3	336.7	337.5	336.7
75°	1009.9	763.2	535.3	436.3	396.3	353.5	331.3	320.6	312.6	312.6	311.7
77.5°	637.6	579.8	431.0	347.3	317.0	291.2	276.1	261.9	261.9	260.9	260.1
80°	481.8	461.3	335.7	262.7	243.1	223.6	213.7	207.5	207.5	210.2	209.3
82.5°	330.4	347.3	236.0	183.4	173.6	159.4	157.6	158.5	155.8	152.3	151.4
85°	241.4	260.9	159.4	115.8	106.0	97.1	104.2	107.8	103.3	95.3	91.8
87.5°	92.6	171.0	85.5	48.1	44.5	38.3	44.5	46.3	49.8	39.2	40.1
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)