

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: P269401

Luminaire Tested: **GLEON-AF-06-LED-E1-SL4-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-SL4-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA 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: 29390.5 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

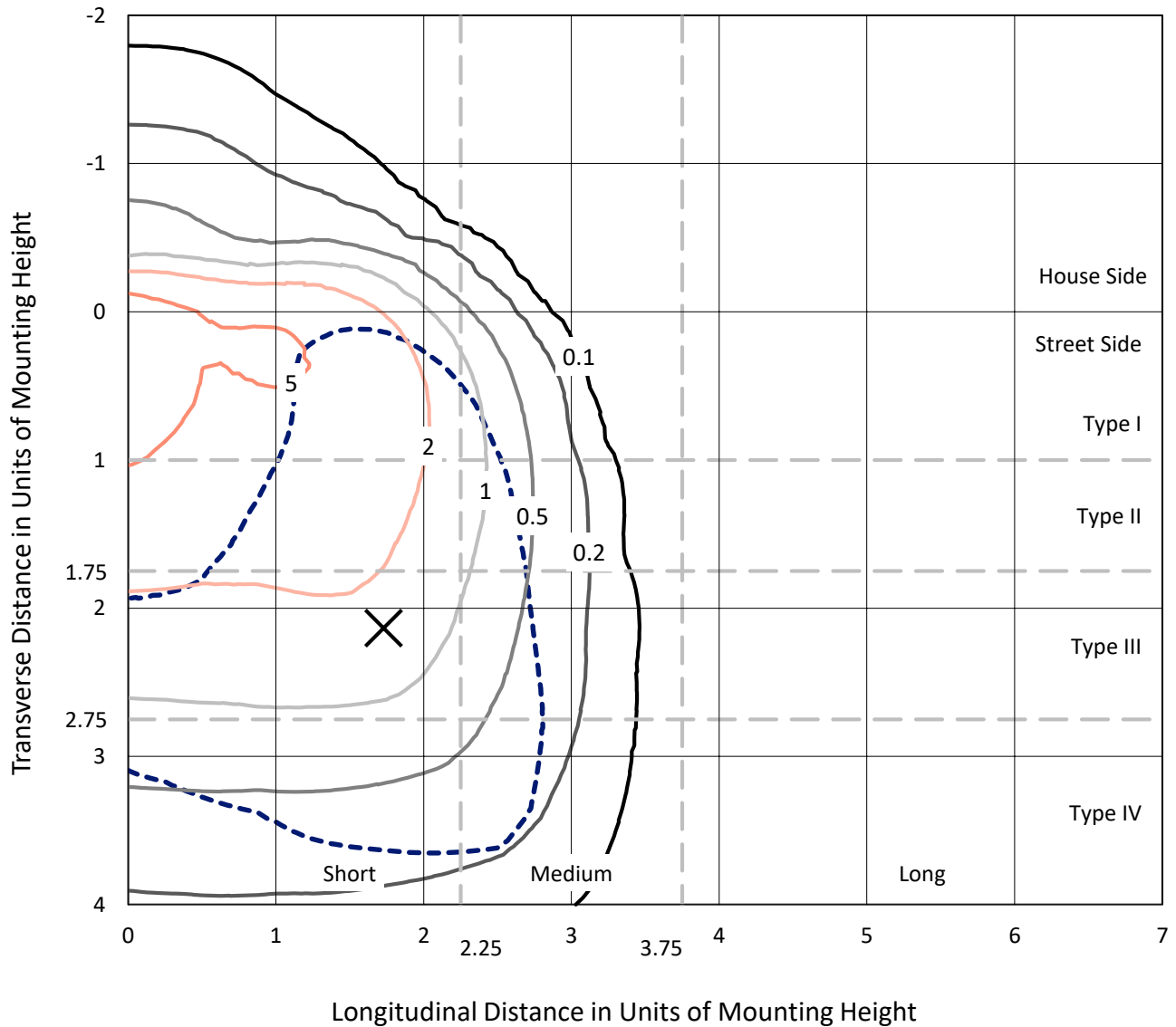
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

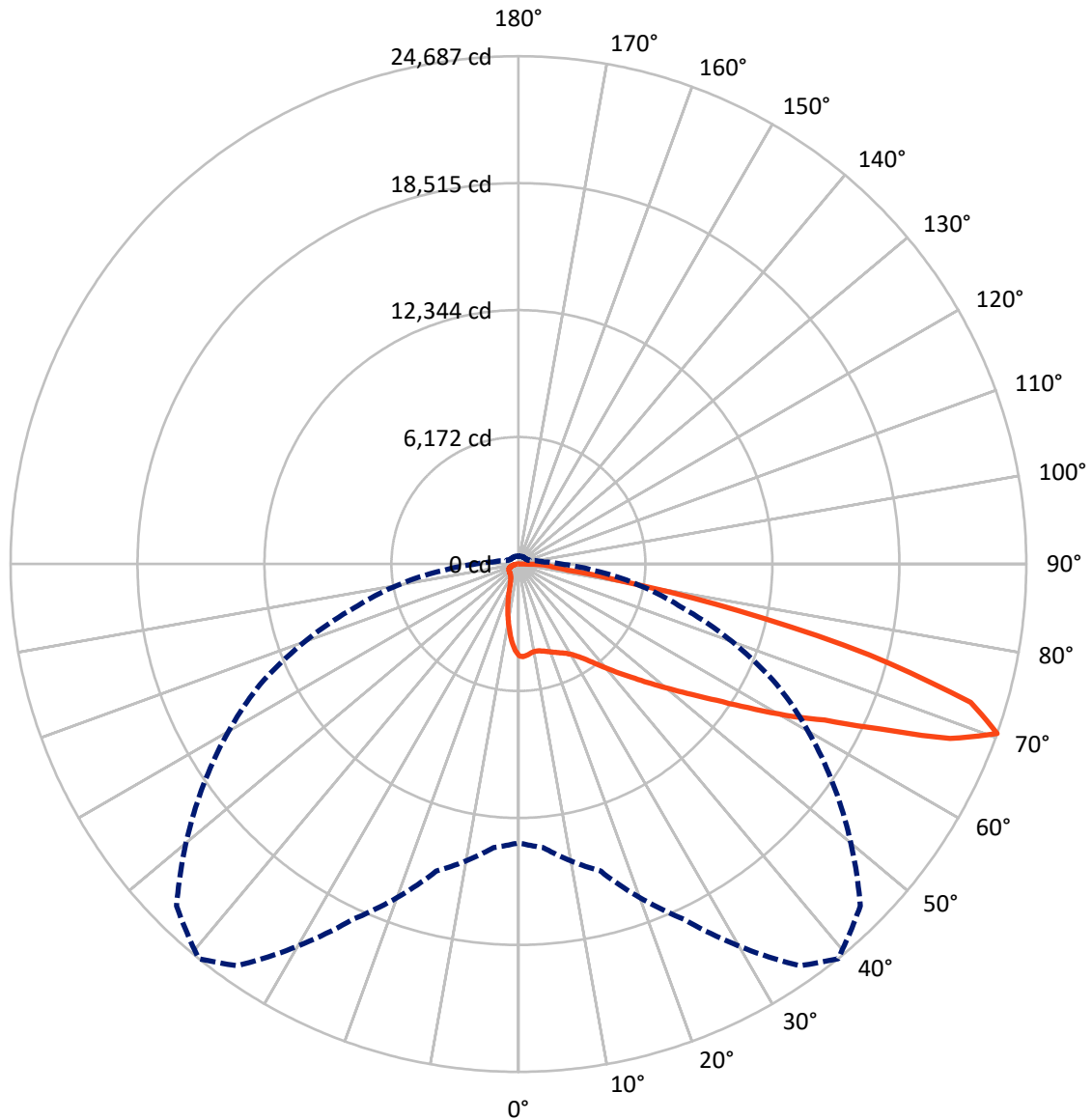
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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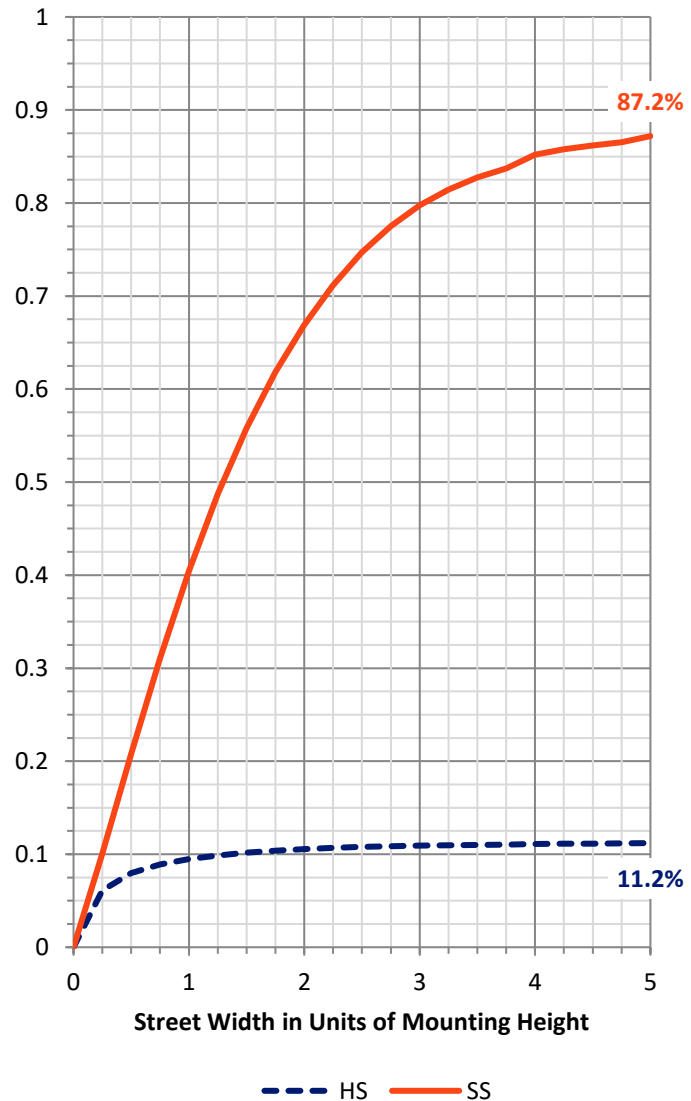
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3342.7	0.0	3342.7
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	26047.8	0.0	26047.8
	% Fixture	88.6	0.0	88.6
Total	Lumens	29390.5	0.0	29390.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.9	1.3
10°-20°	957.1	3.3
20°-30°	1490.3	5.1
30°-40°	2321.6	7.9
40°-50°	3897.6	13.3
50°-60°	6191.7	21.1
60°-70°	8259.0	28.1
70°-80°	4987.4	17.0
80°-90°	902.7	3.1
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°	29390.5	100.0
0°-180°	29390.5	100.0



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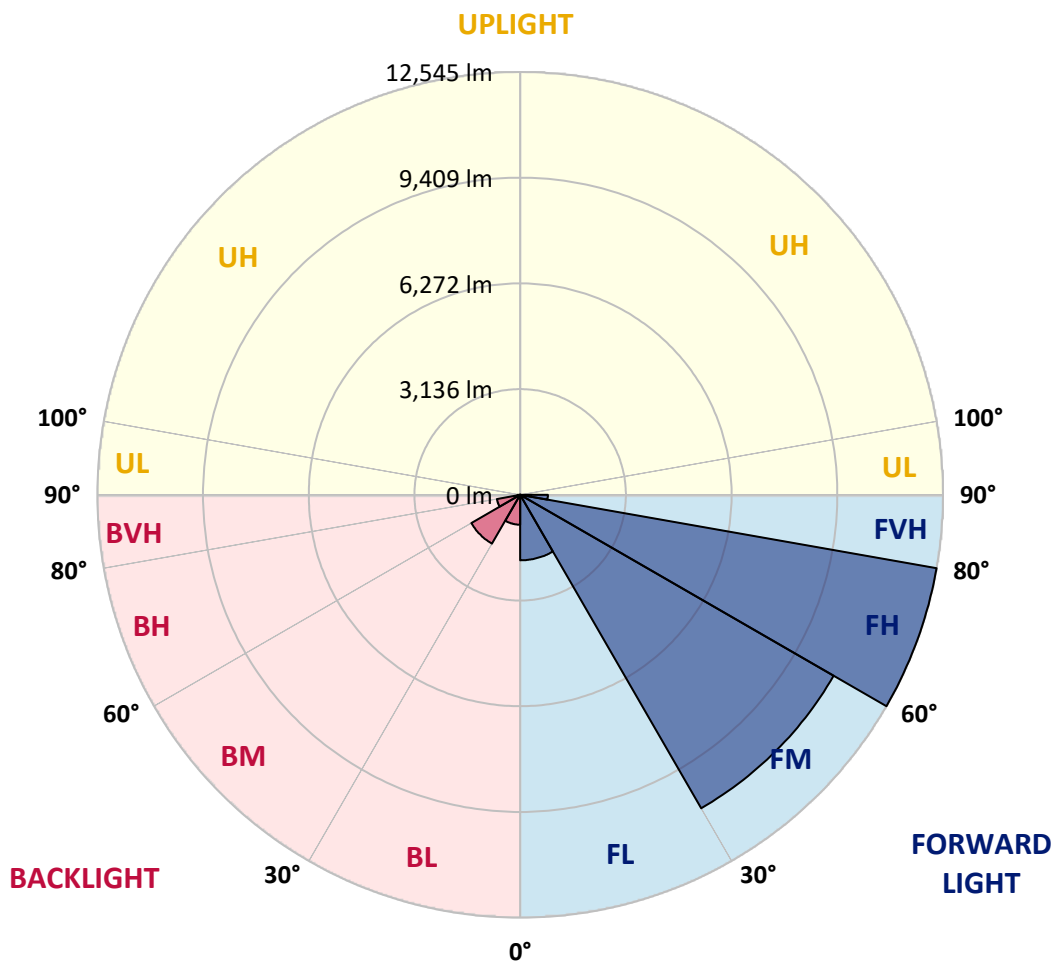
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1943.6	6.6			
FM	(30°-60°)	10738.1	36.5			
FH	(60°-80°)	12544.7	42.7			G5
FVH	(80°-90°)	821.3	2.8			G5
BL	(0°-30°)	886.8	3.0	B2/1000		
BM	(30°-60°)	1672.8	5.7	B2/2500		
BH	(60°-80°)	701.8	2.4	B2/1000		G2/1000
BVH	(80°-90°)	81.4	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°	39°	45°	55°	65°	75°	85°
0°	4461.9	4461.9	4461.9	4461.9	4461.9	4461.9	4461.9	4461.9	4461.9	4461.9	4461.9
2.5°	4548.6	4547.1	4535.2	4526.2	4518.7	4515.7	4521.7	4499.3	4479.8	4456.0	4430.5
5°	4514.3	4512.7	4493.3	4475.4	4457.4	4451.6	4449.9	4409.6	4385.7	4349.9	4302.1
7.5°	4476.9	4469.3	4443.9	4414.1	4382.7	4367.7	4352.8	4300.5	4273.6	4237.8	4182.5
10°	4438.0	4429.1	4405.2	4375.3	4345.5	4323.0	4297.5	4246.7	4218.4	4191.4	4127.3
12.5°	4397.7	4390.1	4384.2	4370.8	4349.9	4330.4	4311.0	4267.7	4237.8	4206.5	4131.7
15°	4391.8	4388.7	4402.1	4411.1	4399.2	4387.2	4366.3	4328.9	4297.5	4266.2	4169.0
17.5°	4439.6	4438.0	4472.4	4496.2	4490.3	4469.3	4441.0	4399.2	4373.8	4346.9	4225.8
20°	4544.2	4551.6	4593.5	4624.8	4594.9	4565.0	4518.7	4460.4	4447.0	4435.0	4284.0
22.5°	4741.3	4748.8	4778.8	4790.8	4713.0	4669.6	4605.4	4530.6	4521.7	4530.6	4354.4
25°	5049.2	5041.6	5037.2	4992.4	4850.5	4783.1	4701.0	4623.2	4627.8	4668.1	4453.0
27.5°	5457.2	5416.8	5354.0	5219.5	4993.9	4919.2	4819.0	4747.4	4775.7	4853.5	4600.8
30°	5879.9	5835.2	5690.3	5470.6	5182.1	5099.9	4987.8	4907.3	4981.9	5104.4	4798.1
32.5°	6271.4	6265.5	6053.4	5770.9	5442.2	5370.4	5258.4	5167.2	5288.2	5475.1	5094.0
35°	6698.9	6712.3	6458.3	6119.1	5793.3	5718.6	5637.9	5569.2	5730.6	5987.7	5522.9
37.5°	7156.1	7182.9	6882.6	6500.1	6193.9	6162.5	6114.7	6084.7	6334.3	6689.9	6122.0
40°	7767.3	7740.3	7323.5	6930.5	6685.5	6683.8	6668.9	6704.9	7120.2	7607.3	6891.6
42.5°	8421.8	8342.6	7791.2	7392.2	7224.9	7275.6	7305.6	7452.0	8066.2	8722.2	7830.0
45°	9127.0	8949.3	8276.9	7880.8	7824.1	7931.7	8033.3	8351.5	9179.4	9990.8	8858.0
47.5°	9690.5	9518.6	8779.0	8393.5	8517.4	8680.3	8876.1	9379.7	10425.5	11301.2	9872.7
50°	10134.1	10022.2	9285.5	8991.0	9281.0	9532.0	9851.8	10543.6	11722.6	12577.3	10812.5
52.5°	10564.5	10481.0	9796.6	9603.8	10177.5	10524.3	10959.1	11792.9	13052.6	13832.6	11603.0
55°	10953.2	10893.3	10346.4	10367.2	11232.5	11683.7	12230.8	13215.4	14502.0	14951.7	12272.6
57.5°	11390.9	11314.7	10974.1	11325.2	12587.8	13173.6	13884.9	14814.3	15861.8	15947.0	12782.2
60°	11831.8	11766.0	11670.3	12430.9	14309.2	14924.9	15598.8	16363.9	17241.0	16719.6	12752.2
62.5°	12214.3	12221.7	12390.6	13592.0	15994.9	16707.5	17529.4	18285.4	18488.7	16854.0	11809.3
65°	12862.8	12980.9	13484.4	15235.8	18367.7	19321.0	20329.7	20208.7	18834.0	15597.4	9787.6
67.5°	13633.8	13841.5	14862.2	17426.3	21366.7	22632.3	23022.4	20643.5	17451.7	12678.9	6976.7
70°	13556.1	13841.5	15456.9	19059.6	23838.3	24687.0	23503.6	18682.9	13858.0	8282.8	3705.8
72.5°	12037.9	12445.8	14245.1	18311.0	23059.9	22985.0	20404.5	13928.2	8233.4	3326.2	1448.0
75°	9174.8	9587.3	11135.4	14466.1	18225.7	17598.2	14478.2	7694.1	3124.6	1321.0	912.9
77.5°	5277.8	5597.6	6793.1	8871.5	11562.8	10918.7	8058.6	3422.0	1521.2	920.5	712.7
80°	2946.7	3124.6	3850.8	4500.8	5666.2	5194.1	3605.6	2126.4	1135.6	667.9	549.9
82.5°	2329.6	2487.9	3114.1	2839.2	2588.0	2387.9	2071.1	1893.3	907.0	421.3	328.7
85°	2035.2	2186.1	2635.8	2235.4	1767.8	1621.4	1682.5	1863.4	705.3	254.0	280.9
87.5°	1885.8	2087.5	2349.0	1722.9	1376.3	1219.3	1552.6	2042.7	227.1	158.5	113.5
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°	4461.9	4461.9	4461.9	4461.9	4461.9	4461.9	4461.9	4461.9	4461.9	4461.9	4461.9
2.5°	4408.2	4384.2	4345.5	4311.0	4257.2	4228.9	4197.4	4175.1	4157.0	4142.2	4166.1
5°	4272.2	4227.3	4145.1	4056.9	3952.5	3870.2	3801.4	3737.2	3692.4	3662.5	3683.4
7.5°	4143.6	4070.4	3941.9	3782.0	3602.7	3450.3	3324.7	3214.1	3138.0	3088.7	3108.1
10°	4070.4	3979.3	3780.5	3529.5	3265.0	3027.4	2830.2	2659.8	2541.8	2474.6	2485.0
12.5°	4052.6	3934.4	3659.4	3314.3	2952.6	2622.4	2344.5	2108.4	1942.6	1855.9	1859.0
15°	4066.0	3915.1	3545.9	3108.1	2650.9	2233.9	1887.2	1600.4	1407.6	1309.0	1307.6
17.5°	4088.4	3900.1	3426.3	2885.4	2344.5	1860.4	1473.4	1192.4	1022.1	943.0	936.9
20°	4112.4	3876.1	3291.8	2644.9	2026.2	1513.7	1153.7	933.9	826.4	783.1	780.0
22.5°	4146.7	3855.3	3153.0	2390.8	1714.0	1232.7	948.9	800.8	744.2	721.8	718.7
25°	4201.9	3844.7	3005.0	2126.4	1433.1	1031.1	826.4	735.3	702.4	687.4	685.9
27.5°	4294.5	3859.7	2866.0	1869.4	1204.4	895.2	757.6	702.4	678.4	664.9	663.5
30°	4414.1	3906.1	2719.6	1625.8	1026.6	802.5	715.8	679.8	660.4	647.0	647.0
32.5°	4612.8	3983.8	2565.6	1415.1	899.6	738.1	684.4	660.4	644.1	633.6	632.0
35°	4905.7	4130.1	2422.2	1240.3	808.5	691.9	657.5	639.6	627.6	621.6	621.6
37.5°	5331.6	4361.8	2295.2	1114.7	753.0	660.4	632.0	618.7	611.1	611.1	611.1
40°	5903.9	4681.5	2192.1	1031.1	721.8	638.1	612.6	602.3	597.7	599.2	599.2
42.5°	6610.6	5097.1	2123.4	972.8	706.7	624.6	599.2	590.2	585.8	584.3	585.8
45°	7416.1	5569.2	2115.9	929.4	691.9	615.7	590.2	581.3	572.3	566.3	566.3
47.5°	8199.1	6048.8	2177.1	914.6	675.4	605.2	582.8	573.7	560.4	546.9	546.9
50°	8891.0	6456.7	2259.3	920.5	669.4	590.2	570.9	566.3	545.5	530.4	529.0
52.5°	9440.8	6770.5	2326.6	938.4	675.4	579.8	556.0	557.4	534.9	518.5	517.1
55°	9881.6	6976.7	2308.6	956.3	688.9	573.7	542.4	545.5	527.5	511.0	511.0
57.5°	10074.4	6900.6	2109.8	941.5	699.3	575.4	531.9	544.0	529.0	514.0	514.0
60°	9660.6	6223.6	1737.9	875.7	685.9	570.9	527.5	549.9	548.3	533.5	531.9
62.5°	8408.3	5011.9	1347.8	778.6	639.6	548.3	515.5	548.3	564.9	560.4	558.8
65°	6480.7	3569.9	1029.5	673.9	576.8	511.0	484.1	514.0	536.5	542.4	540.9
67.5°	4206.5	2187.6	793.5	575.4	506.6	467.7	443.9	457.2	461.6	461.6	458.8
70°	2068.1	1177.5	632.0	484.1	434.8	421.3	407.9	400.5	393.0	387.0	387.0
72.5°	1020.7	769.6	519.9	409.4	375.0	369.2	366.1	357.2	351.1	343.7	340.6
75°	754.7	626.1	442.3	345.2	322.9	316.8	322.9	315.2	313.8	307.8	304.9
77.5°	620.1	533.5	381.1	295.9	276.5	266.0	274.9	276.5	277.9	269.0	266.0
80°	503.6	451.3	318.3	245.1	227.1	219.6	225.7	237.6	240.6	227.1	221.2
82.5°	363.2	369.2	257.1	191.2	176.3	170.4	182.3	197.3	200.2	180.7	176.3
85°	304.9	307.8	197.3	136.0	121.0	112.1	131.5	146.5	156.9	137.5	132.9
87.5°	127.0	180.7	113.5	76.1	67.3	58.3	70.2	77.8	94.1	86.6	85.2
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)