

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: P193785

Luminaire Tested: **GLEON-AF-07-LED-E1-SL4-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193785
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-07-LED-E1-SL4-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 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: 26376 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

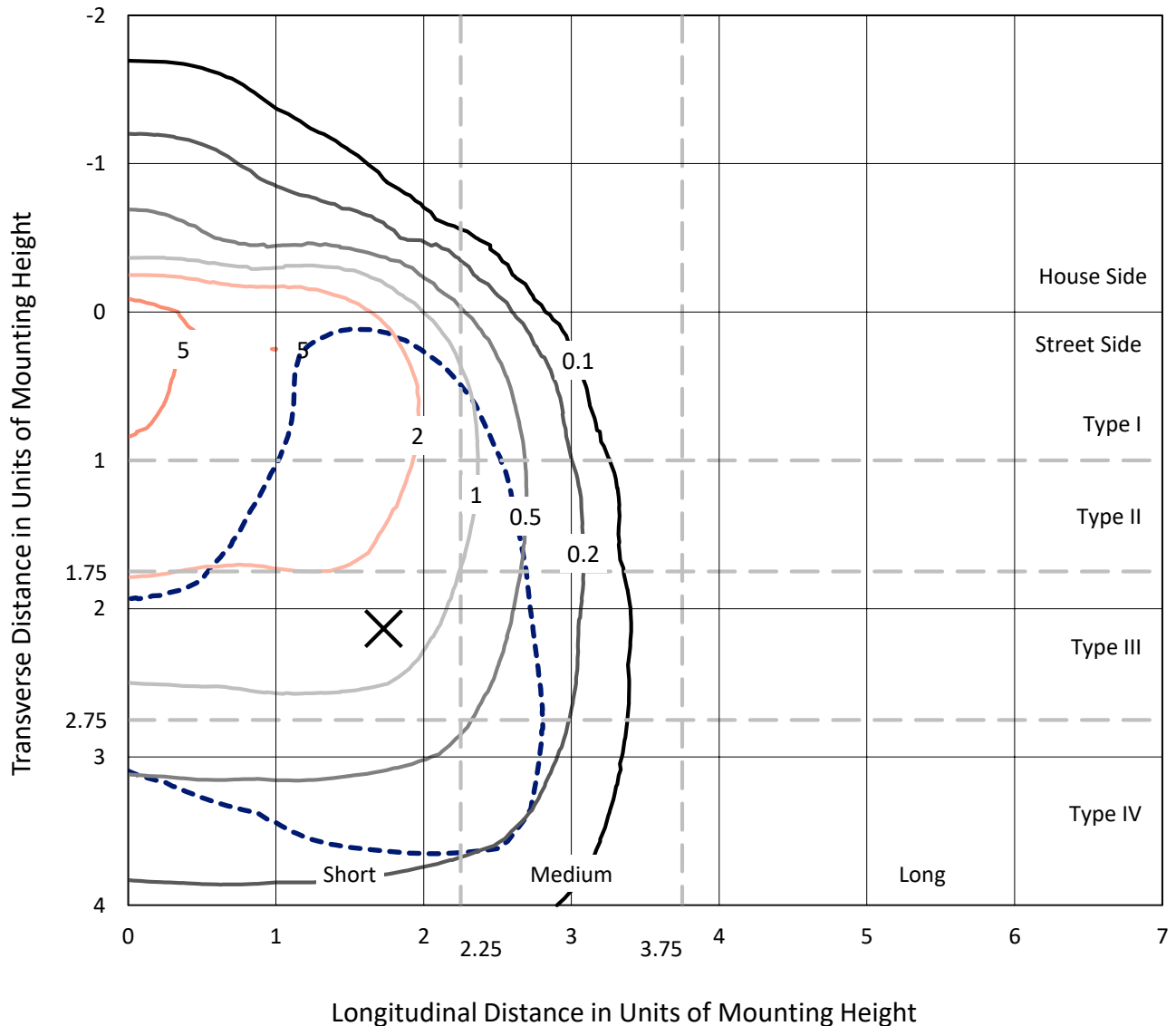
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

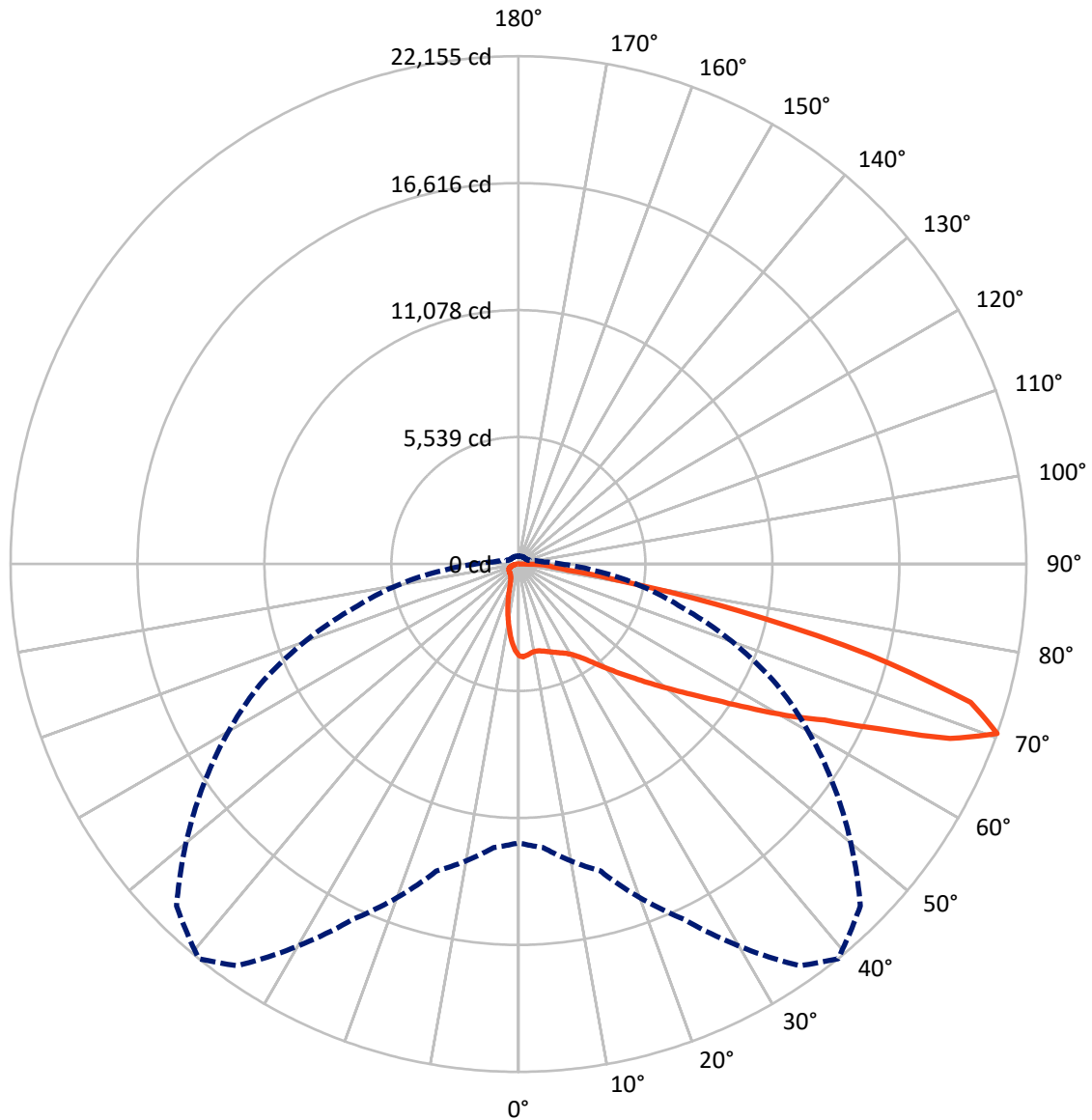
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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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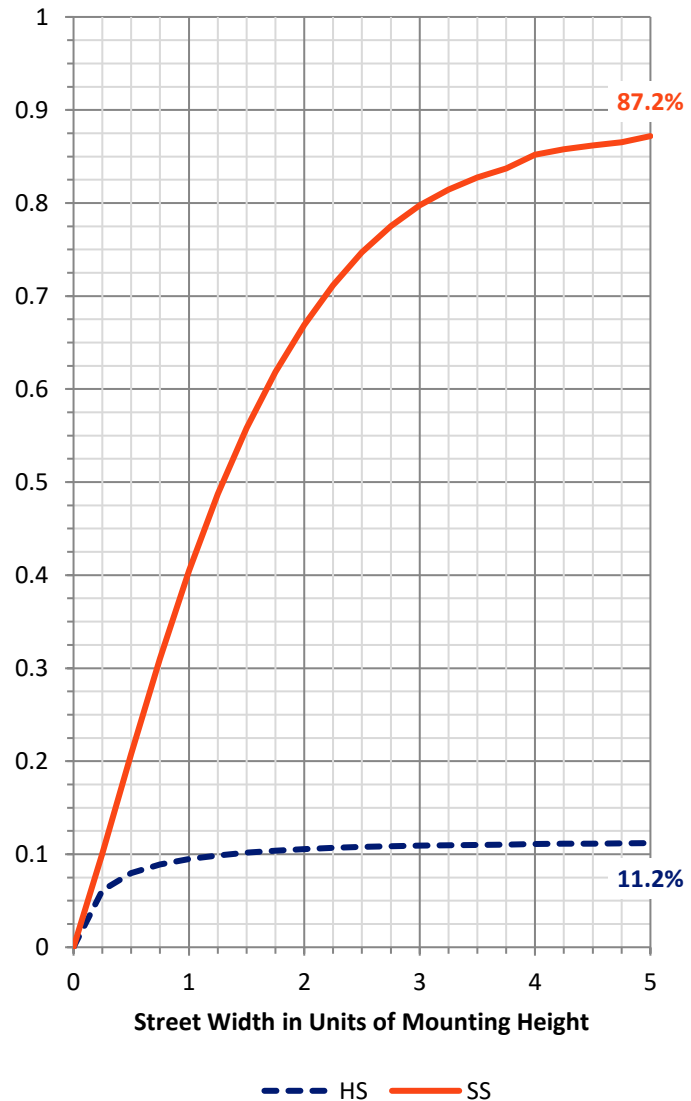
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2999.8	0.0	2999.8
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	23376.2	0.0	23376.2
	% Fixture	88.6	0.0	88.6
Total	Lumens	26376.0	0.0	26376.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.6	1.3
10°-20°	859.0	3.3
20°-30°	1337.5	5.1
30°-40°	2083.5	7.9
40°-50°	3497.9	13.3
50°-60°	5556.6	21.1
60°-70°	7412.0	28.1
70°-80°	4475.9	17.0
80°-90°	810.1	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°	26376.0	100.0
0°-180°	26376.0	100.0



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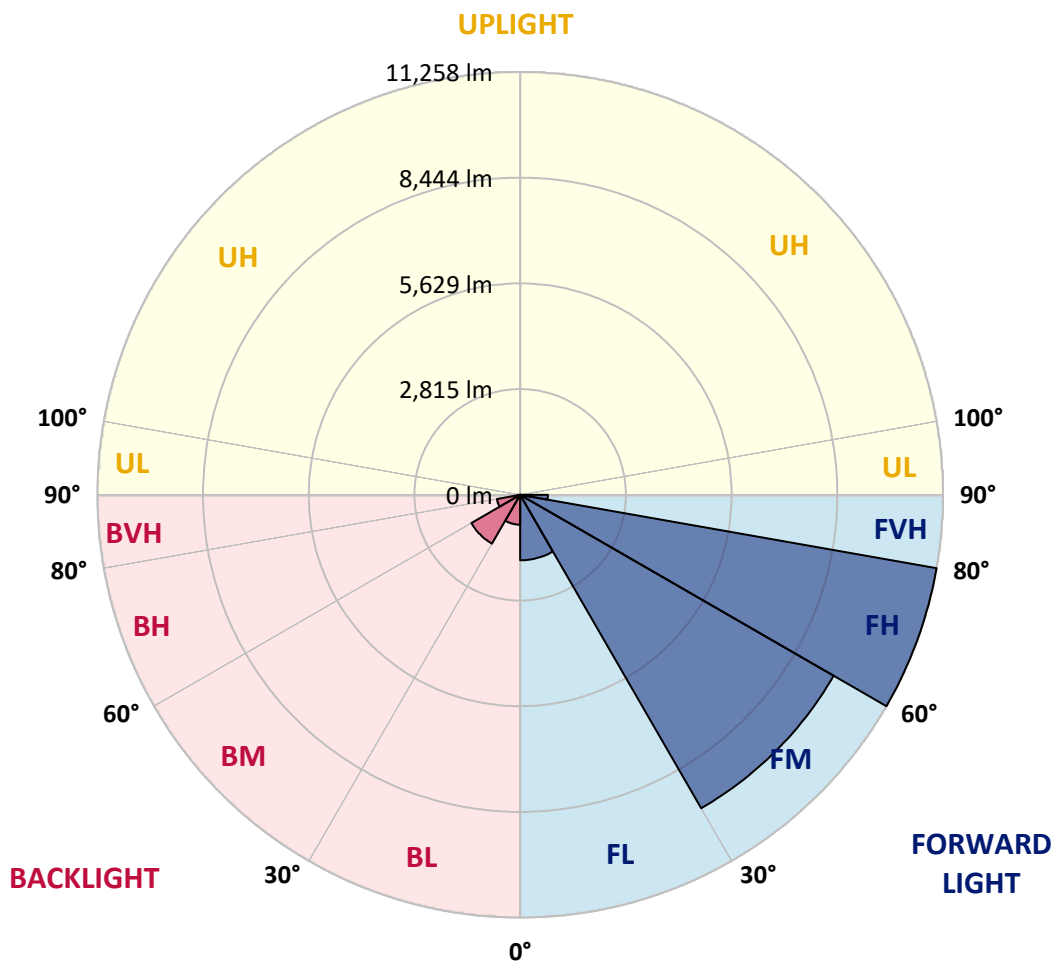
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1744.3	6.6			
FM	(30°-60°)	9636.8	36.5			
FH	(60°-80°)	11258.0	42.7			G4/12000
FVH	(80°-90°)	737.1	2.8			G4/750
BL	(0°-30°)	795.8	3.0	B2/1000		
BM	(30°-60°)	1501.2	5.7	B2/2500		
BH	(60°-80°)	629.8	2.4	B2/1000		G2/1000
BVH	(80°-90°)	73.0	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4004.3	4004.3	4004.3	4004.3	4004.3	4004.3	4004.3	4004.3	4004.3	4004.3	4004.3
2.5°	4082.1	4080.7	4070.0	4061.9	4055.2	4052.6	4057.9	4037.8	4020.4	3998.9	3976.1
5°	4051.2	4049.9	4032.4	4016.4	4000.3	3994.9	3993.6	3957.3	3935.9	3903.7	3860.8
7.5°	4017.7	4011.0	3988.2	3961.4	3933.2	3919.8	3906.4	3859.5	3835.3	3803.1	3753.5
10°	3982.8	3974.8	3953.3	3926.5	3899.7	3879.6	3856.8	3811.2	3785.7	3761.6	3703.9
12.5°	3946.6	3939.9	3934.6	3922.5	3903.7	3886.3	3868.8	3830.0	3803.1	3775.0	3707.9
15°	3941.3	3938.6	3950.6	3958.7	3948.0	3937.2	3918.5	3884.9	3856.8	3828.6	3741.4
17.5°	3984.2	3982.8	4013.7	4035.1	4029.8	4011.0	3985.5	3948.0	3925.2	3901.0	3792.4
20°	4078.0	4084.7	4122.3	4150.5	4123.6	4096.8	4055.2	4002.9	3990.9	3980.1	3844.7
22.5°	4255.1	4261.8	4288.6	4299.3	4229.6	4190.7	4133.0	4066.0	4057.9	4066.0	3907.7
25°	4531.3	4524.6	4520.6	4480.3	4353.0	4292.6	4218.8	4149.1	4153.1	4189.3	3996.2
27.5°	4897.4	4861.2	4804.9	4684.2	4481.7	4414.6	4324.8	4260.4	4285.9	4355.6	4129.0
30°	5276.9	5236.7	5106.6	4909.5	4650.7	4576.9	4476.3	4403.9	4471.0	4580.9	4306.0
32.5°	5628.3	5622.9	5432.5	5179.0	4884.0	4819.6	4719.0	4637.2	4745.9	4913.5	4571.5
35°	6011.8	6023.9	5795.9	5491.5	5199.1	5132.1	5059.7	4998.0	5142.8	5373.5	4956.4
37.5°	6422.1	6446.3	6176.7	5833.4	5558.5	5530.4	5487.5	5460.6	5684.6	6003.7	5494.2
40°	6970.6	6946.5	6572.3	6219.7	5999.7	5998.4	5985.0	6017.2	6390.0	6827.1	6184.8
42.5°	7558.0	7486.9	6992.1	6634.0	6483.8	6529.4	6556.2	6687.7	7238.8	7827.5	7026.9
45°	8190.9	8031.4	7427.9	7072.5	7021.6	7118.1	7209.3	7495.0	8237.9	8966.1	7949.6
47.5°	8696.5	8542.3	7878.5	7532.5	7643.8	7790.0	7965.7	8417.6	9356.3	10142.1	8860.1
50°	9094.8	8994.2	8333.1	8068.9	8329.1	8554.4	8841.3	9462.2	10520.3	11287.4	9703.6
52.5°	9481.0	9405.9	8791.7	8618.7	9133.7	9444.8	9835.0	10583.3	11713.8	12413.8	10413.0
55°	9829.7	9776.0	9285.2	9304.0	10080.4	10485.4	10976.2	11860.0	13014.6	13418.2	11013.8
57.5°	10222.6	10154.2	9848.5	10163.6	11296.8	11822.4	12460.8	13294.9	14234.9	14311.4	11471.1
60°	10618.2	10559.2	10473.4	11155.9	12841.6	13394.1	13998.9	14685.5	15472.7	15004.7	11444.3
62.5°	10961.5	10968.2	11119.7	12197.9	14354.3	14993.9	15731.5	16410.1	16592.4	15125.4	10598.1
65°	11543.5	11649.4	12101.4	13673.0	16483.8	17339.4	18244.6	18136.0	16902.2	13997.6	8783.7
67.5°	12235.5	12421.9	13337.8	15639.0	19175.2	20311.1	20661.1	18526.2	15661.8	11378.6	6261.2
70°	12165.7	12421.9	13871.5	17104.7	21393.3	22155.0	21092.9	16766.8	12436.6	7433.3	3325.7
72.5°	10803.3	11169.4	12783.9	16432.9	20694.6	20627.6	18311.6	12499.6	7389.0	2985.1	1299.4
75°	8233.9	8604.0	9993.3	12982.4	16356.4	15793.2	12993.1	6904.9	2804.1	1185.5	819.4
77.5°	4736.5	5023.5	6096.3	7961.6	10376.8	9798.8	7232.1	3070.9	1365.2	826.1	639.7
80°	2644.5	2804.1	3455.8	4039.2	5085.1	4661.4	3235.9	1908.3	1019.2	599.4	493.5
82.5°	2090.7	2232.8	2794.7	2547.9	2322.6	2142.9	1858.7	1699.1	814.0	378.2	295.0
85°	1826.5	1961.9	2365.6	2006.2	1586.4	1455.0	1510.0	1672.3	633.0	228.0	252.1
87.5°	1692.4	1873.4	2108.1	1546.2	1235.1	1094.3	1393.3	1833.2	203.8	142.1	101.9
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°	4004.3	4004.3	4004.3	4004.3	4004.3	4004.3	4004.3	4004.3	4004.3	4004.3	4004.3
2.5°	3956.0	3934.6	3899.7	3868.8	3820.6	3795.1	3766.9	3746.8	3730.7	3717.3	3738.8
5°	3834.0	3793.7	3720.0	3640.9	3547.0	3473.2	3411.6	3353.9	3313.7	3286.8	3305.6
7.5°	3718.6	3652.9	3537.6	3394.1	3233.2	3096.4	2983.8	2884.5	2816.1	2771.9	2789.3
10°	3652.9	3571.1	3392.8	3167.5	2930.1	2716.9	2539.9	2387.0	2281.1	2220.7	2230.1
12.5°	3636.8	3530.9	3284.2	2974.4	2649.9	2353.5	2104.1	1892.2	1743.3	1665.5	1668.2
15°	3648.9	3513.5	3182.2	2789.3	2379.0	2004.8	1693.7	1436.2	1263.2	1174.7	1173.4
17.5°	3669.0	3500.1	3075.0	2589.5	2104.1	1669.6	1322.2	1070.1	917.3	846.2	840.8
20°	3690.5	3478.6	2954.3	2373.6	1818.4	1358.5	1035.3	838.1	741.6	702.7	700.0
22.5°	3721.3	3459.8	2829.6	2145.6	1538.1	1106.3	851.5	718.8	667.8	647.7	645.0
25°	3770.9	3450.4	2696.8	1908.3	1286.0	925.3	741.6	659.8	630.3	616.9	615.5
27.5°	3854.1	3463.9	2572.1	1677.6	1080.9	803.3	679.9	630.3	608.8	596.8	595.4
30°	3961.4	3505.4	2440.7	1459.0	921.3	720.1	642.3	610.2	592.7	580.7	580.7
32.5°	4139.7	3575.2	2302.5	1269.9	807.3	662.5	614.2	592.7	578.0	568.6	567.3
35°	4402.6	3706.6	2173.8	1113.0	725.5	620.9	590.0	574.0	563.2	557.9	557.9
37.5°	4784.8	3914.4	2059.8	1000.4	675.9	592.7	567.3	555.2	548.5	548.5	548.5
40°	5298.4	4201.4	1967.3	925.3	647.7	572.6	549.8	540.4	536.4	537.7	537.7
42.5°	5932.7	4574.2	1905.6	873.0	634.3	560.5	537.7	529.7	525.7	524.3	525.7
45°	6655.5	4998.0	1898.9	834.1	620.9	552.5	529.7	521.7	513.6	508.2	508.2
47.5°	7358.2	5428.4	1953.9	820.7	606.1	543.1	523.0	515.0	502.9	490.8	490.8
50°	7979.1	5794.5	2027.6	826.1	600.8	529.7	512.3	508.2	489.5	476.1	474.7
52.5°	8472.6	6076.2	2088.0	842.2	606.1	520.3	498.9	500.2	480.1	465.3	464.0
55°	8868.2	6261.2	2071.9	858.3	618.2	515.0	486.8	489.5	473.4	458.6	458.6
57.5°	9041.2	6192.8	1893.5	844.8	627.6	516.3	477.4	488.1	474.7	461.3	461.3
60°	8669.7	5585.3	1559.6	785.8	615.5	512.3	473.4	493.5	492.2	478.7	477.4
62.5°	7545.9	4497.8	1209.6	698.7	574.0	492.2	462.7	492.2	506.9	502.9	501.5
65°	5816.0	3203.7	924.0	604.8	517.6	458.6	434.5	461.3	481.4	486.8	485.4
67.5°	3775.0	1963.3	712.1	516.3	454.6	419.7	398.3	410.4	414.4	414.4	411.7
70°	1856.0	1056.7	567.3	434.5	390.2	378.2	366.1	359.4	352.7	347.3	347.3
72.5°	915.9	690.6	466.7	367.4	336.6	331.2	328.5	320.5	315.1	308.4	305.8
75°	677.2	561.9	396.9	309.8	289.7	284.3	289.7	283.0	281.6	276.3	273.6
77.5°	556.5	478.7	342.0	265.5	248.1	238.7	246.7	248.1	249.4	241.4	238.7
80°	451.9	405.0	285.6	219.9	203.8	197.1	202.5	213.2	215.9	203.8	198.5
82.5°	325.9	331.2	230.7	171.7	158.2	152.9	163.6	177.0	179.7	162.3	158.2
85°	273.6	276.3	177.0	122.0	108.6	100.6	118.0	131.4	140.8	123.4	119.4
87.5°	114.0	162.3	101.9	68.4	60.3	52.3	63.0	69.7	84.5	77.8	76.4
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)