

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: P191101

Luminaire Tested: **GLEON-AF-03-LED-E1-SL2-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191101
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-SL2-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19977.2 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

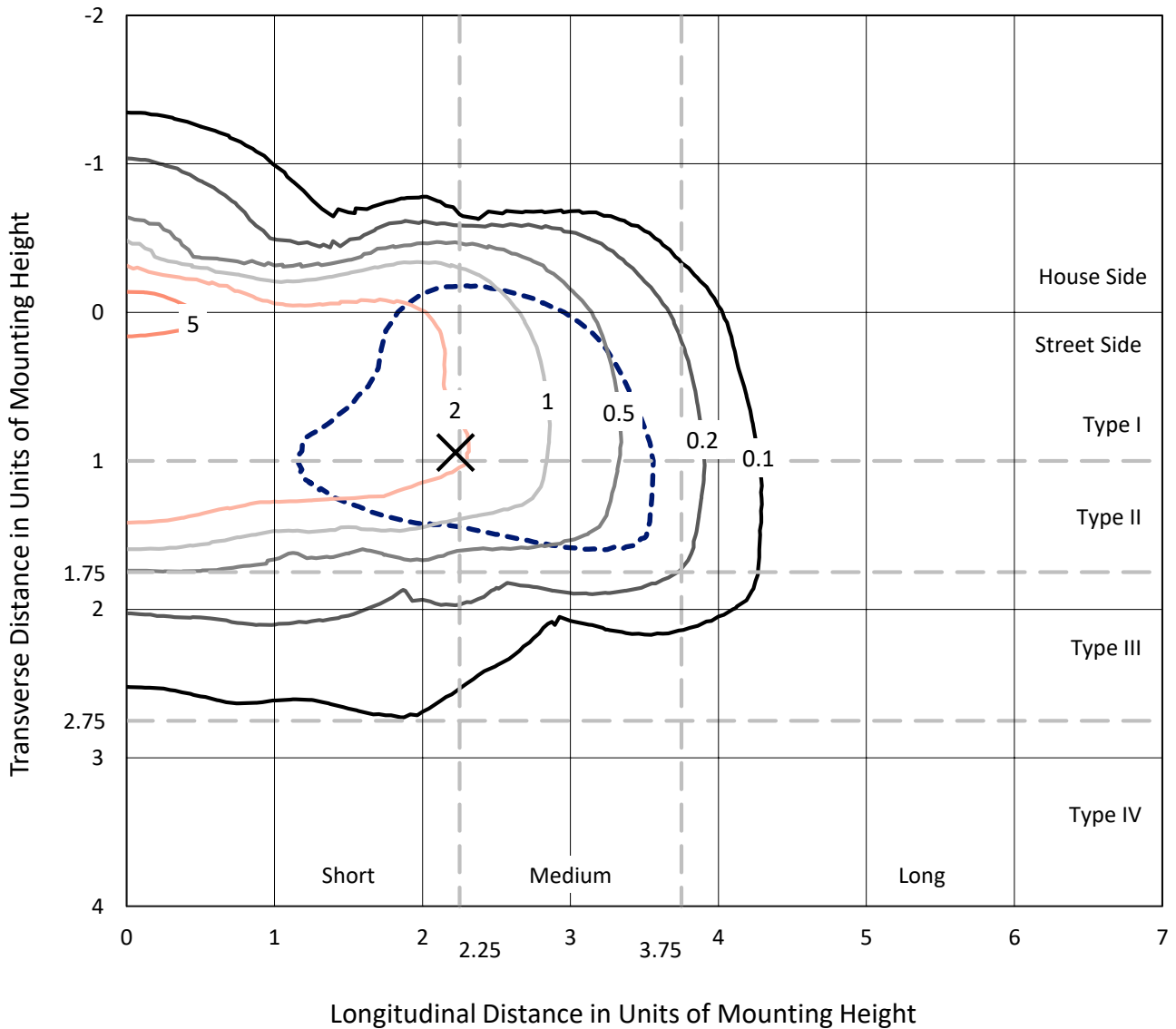
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

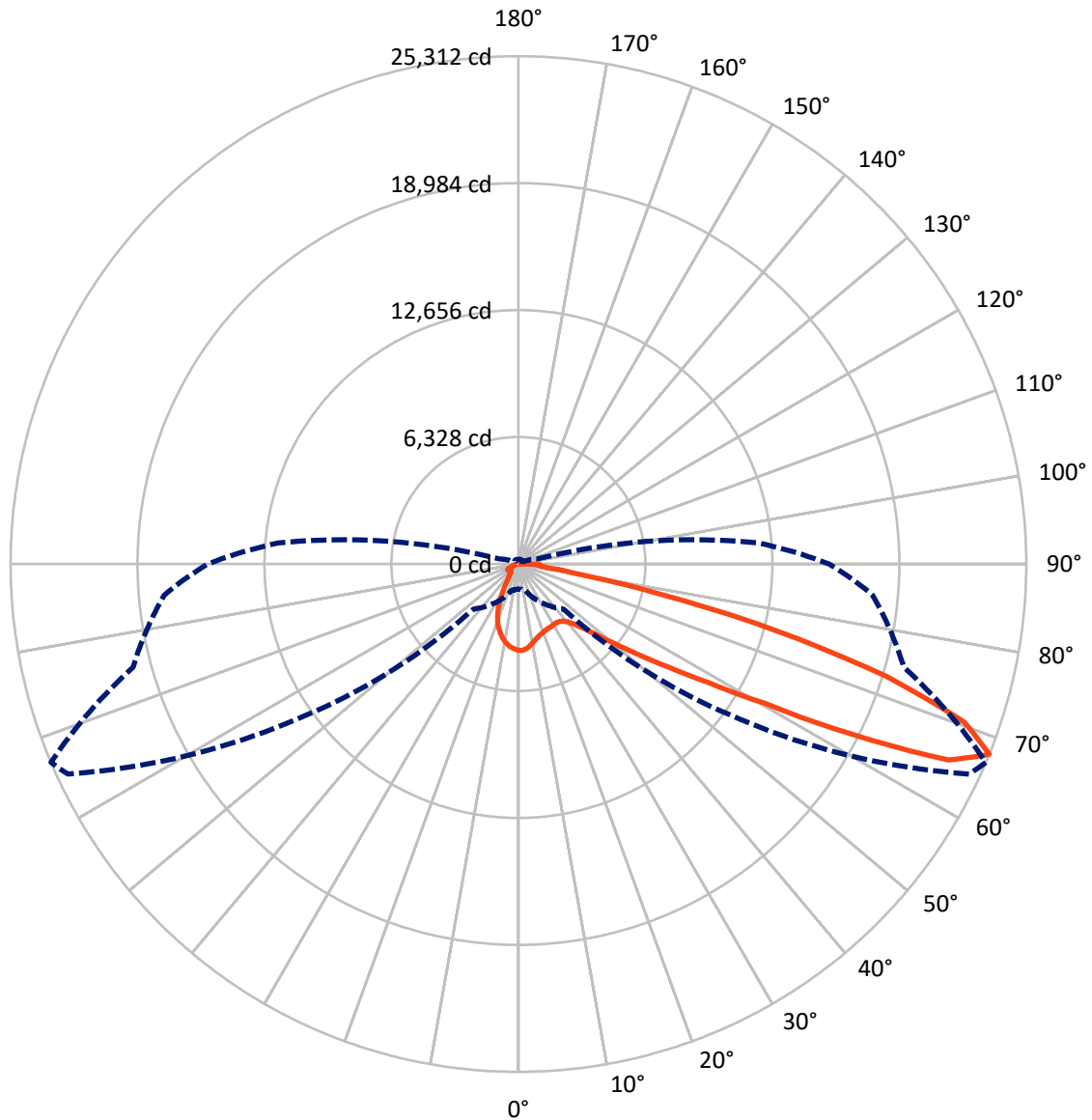
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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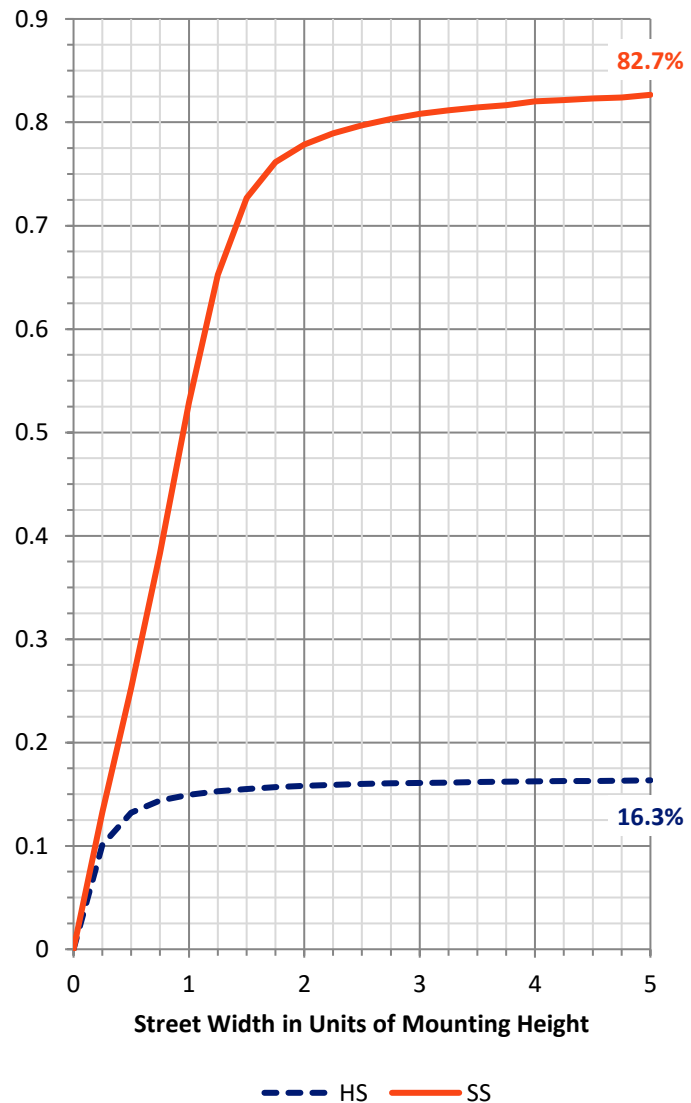
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3310.0	0.0	3310.0
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	16667.2	0.0	16667.2
	% Fixture	83.4	0.0	83.4
Total	Lumens	19977.2	0.0	19977.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.6	1.8
10°-20°	850.6	4.3
20°-30°	1153.0	5.8
30°-40°	1639.2	8.2
40°-50°	2742.4	13.7
50°-60°	4338.4	21.7
60°-70°	5526.7	27.7
70°-80°	2894.9	14.5
80°-90°	464.3	2.3
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°	19977.2	100.0
0°-180°	19977.2	100.0



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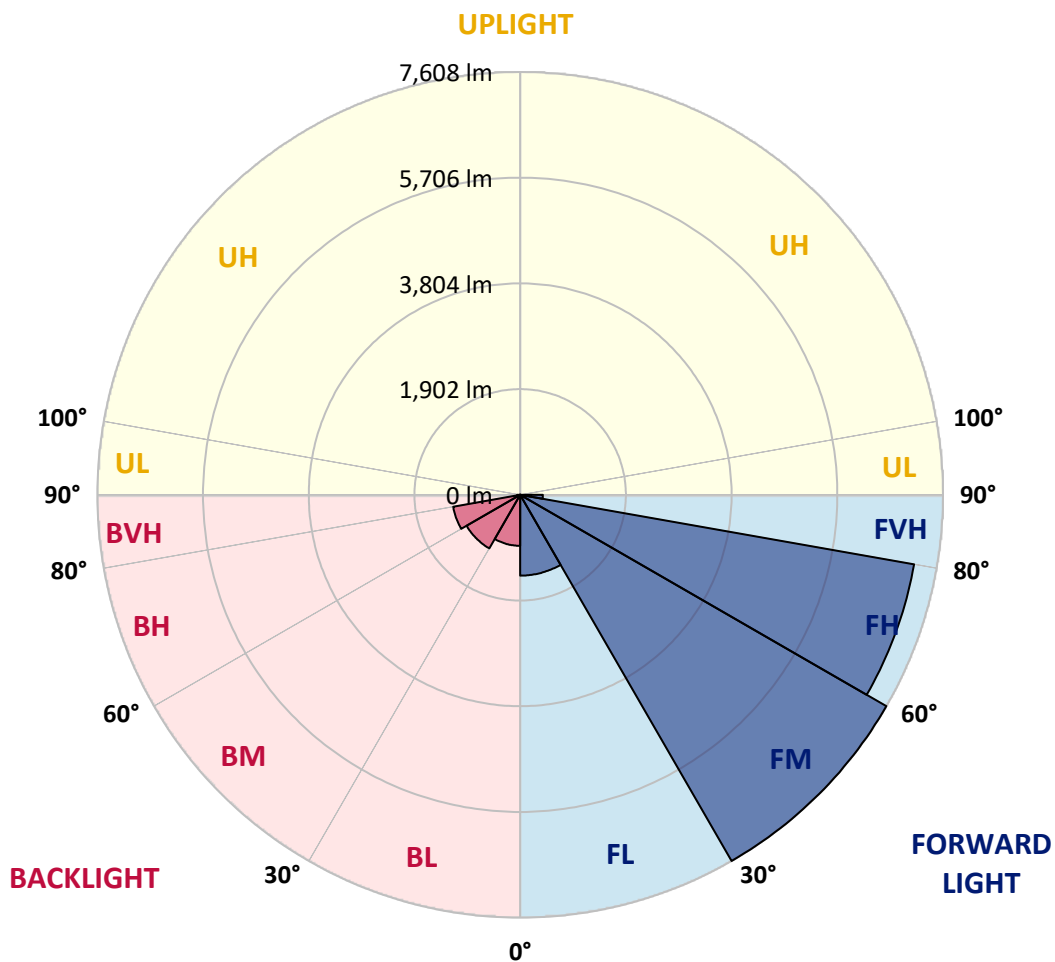
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1453.9	7.3			
FM	(30°-60°)	7607.7	38.1			
FH	(60°-80°)	7197.4	36.0			G3/7500
FVH	(80°-90°)	408.3	2.0			G3/500
BL	(0°-30°)	917.4	4.6	B2/1000		
BM	(30°-60°)	1112.3	5.6	B2/2500		
BH	(60°-80°)	1224.3	6.1	B3/2500		G3/2500
BVH	(80°-90°)	56.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4309.1	4309.1	4309.1	4309.1	4309.1	4309.1	4309.1	4309.1	4309.1	4309.1	4309.1
2.5°	4131.7	4138.7	4160.2	4174.0	4236.1	4262.7	4281.5	4300.2	4303.1	4311.9	4303.1
5°	3698.3	3713.0	3753.4	3798.7	3918.9	4013.4	4113.0	4216.4	4235.1	4302.1	4320.8
7.5°	3362.3	3358.3	3391.9	3446.0	3569.2	3700.2	3874.6	4080.4	4120.9	4271.6	4344.5
10°	3117.0	3114.1	3149.6	3205.6	3322.9	3447.0	3644.1	3925.8	3983.0	4223.4	4367.2
12.5°	2935.8	2936.7	2972.2	3034.3	3153.5	3278.6	3478.5	3776.1	3849.0	4167.2	4390.8
15°	2815.6	2823.4	2852.0	2918.0	3034.3	3159.4	3355.4	3663.8	3745.5	4122.8	4417.4
17.5°	2775.2	2788.0	2797.8	2846.1	2945.6	3070.7	3262.8	3581.0	3667.7	4092.3	4441.0
20°	2812.6	2827.3	2808.6	2825.4	2888.4	2998.8	3189.9	3516.0	3604.7	4057.8	4444.0
22.5°	2973.2	2987.0	2931.8	2883.5	2879.6	2946.6	3129.8	3464.7	3556.4	4032.2	4445.0
25°	3256.0	3264.7	3172.2	3059.9	2950.5	2927.9	3087.5	3429.3	3526.8	4009.6	4426.3
27.5°	3602.7	3609.6	3503.2	3337.7	3118.0	2972.2	3072.6	3408.6	3510.1	3989.8	4394.7
30°	4024.3	4056.8	3914.0	3705.1	3384.9	3103.2	3102.2	3397.7	3491.3	3956.4	4332.7
32.5°	4455.9	4469.6	4371.1	4159.3	3744.5	3333.7	3185.0	3405.6	3486.4	3916.0	4253.8
35°	4893.2	4911.0	4846.9	4676.5	4236.1	3671.7	3346.6	3451.9	3517.0	3902.1	4198.7
37.5°	5459.7	5483.3	5394.6	5197.6	4834.2	4129.8	3615.5	3568.2	3610.6	3941.5	4181.9
40°	6355.2	6344.3	6085.2	5791.6	5488.2	4715.9	3999.7	3765.3	3789.8	4068.7	4233.2
42.5°	7397.5	7370.9	6924.6	6463.5	6207.4	5425.2	4508.0	4107.0	4102.1	4318.9	4413.4
45°	8228.9	8207.2	7805.3	7236.9	7032.0	6233.0	5165.1	4616.4	4580.0	4715.9	4746.4
47.5°	8679.1	8680.1	8448.7	7984.6	7979.7	7259.6	6009.4	5353.3	5290.2	5354.2	5321.8
50°	8521.5	8542.3	8517.6	8369.8	8844.6	8605.3	7111.8	6380.8	6253.7	6316.7	6191.6
52.5°	7759.0	7785.6	7931.4	8158.0	9208.2	10231.8	8731.4	7657.5	7509.8	7487.1	7348.3
55°	6407.4	6439.9	6737.5	7353.2	8905.7	11324.3	11286.8	9285.0	9049.5	8835.7	8776.7
57.5°	4416.4	4470.6	4949.3	5863.6	7927.5	11654.3	14329.9	11605.1	11126.2	10379.5	10393.3
60°	2489.5	2552.5	3117.0	3947.5	5953.3	11295.7	16645.0	15119.0	14108.3	12187.2	12289.7
62.5°	1583.1	1651.1	2079.7	2742.6	3572.1	9364.8	17593.7	20004.4	18720.7	14415.6	14516.2
65°	1281.7	1311.2	1513.1	2263.9	2593.9	5642.0	16873.6	24028.7	23550.0	17244.0	16775.1
67.5°	1251.2	1261.0	1365.4	1900.3	2487.5	3171.1	13459.1	24781.4	25312.4	19885.2	17715.9
70°	1236.3	1270.8	1538.8	1813.7	2382.0	2674.7	8088.1	22718.5	23556.8	20575.8	16463.8
72.5°	600.0	598.0	774.4	1640.3	2683.5	2774.1	4155.3	18381.9	19223.2	17826.2	13529.0
75°	483.8	442.3	422.6	601.0	2580.1	2864.8	2648.1	12648.3	13257.1	11951.9	8316.6
77.5°	459.1	409.8	375.3	376.3	1090.6	3038.2	2243.2	7000.5	7177.7	5398.6	2278.6
80°	380.2	334.9	310.4	349.7	528.0	2893.4	2425.4	3168.3	2907.1	1326.1	758.5
82.5°	264.0	240.4	233.4	293.6	422.6	2062.0	2820.5	1702.3	1427.5	664.0	467.9
85°	168.5	143.8	159.6	213.8	329.1	951.7	2905.2	1327.0	1055.1	421.7	264.0
87.5°	77.8	63.0	78.8	118.3	214.7	328.1	2764.3	1490.5	1086.6	222.6	166.5
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°	4309.1	4309.1	4309.1	4309.1	4309.1	4309.1	4309.1	4309.1	4309.1	4309.1	4309.1
2.5°	4311.0	4292.3	4277.5	4250.0	4219.4	4189.8	4163.2	4129.8	4119.9	4111.0	4124.8
5°	4324.8	4306.1	4251.9	4167.2	4073.6	3985.9	3898.3	3823.4	3777.0	3751.5	3766.2
7.5°	4345.5	4318.9	4206.6	4050.9	3882.5	3728.8	3570.2	3443.0	3349.6	3305.2	3317.9
10°	4364.2	4313.0	4129.8	3896.2	3650.0	3421.5	3171.1	2964.3	2810.7	2729.8	2749.6
12.5°	4372.1	4290.4	4022.3	3703.2	3365.3	3030.3	2661.8	2352.6	2131.8	2051.1	2034.3
15°	4380.0	4264.7	3904.1	3483.5	3021.5	2547.6	2031.4	1661.0	1477.8	1437.3	1428.4
17.5°	4381.9	4220.4	3770.2	3245.1	2618.5	1973.3	1389.1	1153.6	1154.6	1219.6	1227.5
20°	4361.2	4154.4	3607.6	2948.6	2135.8	1364.4	953.6	913.2	1062.0	1224.6	1244.2
22.5°	4314.0	4066.6	3423.4	2602.8	1583.1	898.5	737.9	782.3	974.4	1173.3	1195.9
25°	4253.8	3960.3	3205.6	2201.8	1048.2	642.3	618.7	672.9	802.9	935.9	948.7
27.5°	4172.1	3834.2	2961.3	1742.7	680.8	529.1	544.8	581.2	634.4	693.6	699.5
30°	4066.6	3683.4	2700.3	1270.8	514.2	475.9	498.5	518.2	540.8	574.4	577.3
32.5°	3945.5	3538.7	2432.4	877.8	456.1	448.3	466.0	475.9	493.6	514.2	516.2
35°	3844.0	3400.7	2154.5	620.6	431.5	427.6	439.4	443.3	460.0	482.7	484.7
37.5°	3785.9	3288.4	1867.8	500.4	414.7	408.9	415.7	415.7	439.4	472.9	477.8
40°	3789.8	3226.4	1581.2	452.1	401.0	393.1	394.0	394.0	424.6	461.0	464.0
42.5°	3897.2	3242.1	1327.0	433.4	390.2	381.3	376.3	379.3	404.9	428.5	430.6
45°	4149.4	3353.4	1088.6	421.7	379.3	376.3	365.5	364.5	374.4	385.2	385.2
47.5°	4563.2	3573.2	927.0	413.8	370.4	369.4	356.6	343.8	342.8	346.8	346.8
50°	5236.1	3951.5	818.7	404.9	364.5	356.6	341.9	322.1	315.3	318.2	318.2
52.5°	6244.8	4626.3	777.2	393.1	351.7	338.9	322.1	302.5	296.6	297.5	297.5
55°	7567.9	5662.6	771.4	379.3	337.9	317.2	303.4	288.7	281.7	283.8	283.8
57.5°	9184.6	7096.0	876.8	357.6	319.2	295.5	287.7	277.8	272.9	275.9	274.9
60°	11149.9	8971.7	1300.4	334.9	300.4	275.9	275.9	267.9	264.0	267.0	266.0
62.5°	13413.7	11126.2	1828.4	318.2	280.8	260.0	264.0	260.0	256.1	258.1	257.2
65°	15421.5	12530.1	1712.2	305.4	261.1	245.3	252.2	250.2	247.2	249.3	248.3
67.5°	15479.6	12010.0	961.5	291.6	242.3	230.6	240.4	239.4	237.4	239.4	238.4
70°	13814.7	10141.1	541.9	266.0	222.6	212.8	226.6	225.6	223.6	227.6	226.6
72.5°	11068.1	7359.0	396.0	234.5	203.0	194.1	209.8	208.9	208.9	214.7	211.9
75°	6369.0	3786.9	316.2	201.0	182.3	175.3	189.1	190.2	192.1	200.0	194.1
77.5°	1815.6	1180.2	258.1	170.4	156.6	153.6	167.5	169.4	170.4	179.3	171.4
80°	674.8	543.8	212.8	142.8	128.1	129.1	141.9	144.8	145.8	154.7	144.8
82.5°	430.6	358.5	172.4	110.4	100.5	99.5	115.3	119.2	119.2	120.2	114.3
85°	251.2	214.7	130.0	79.8	70.9	68.0	85.7	92.6	89.6	87.7	83.8
87.5°	168.5	147.8	79.8	44.3	38.5	36.4	50.2	55.1	53.2	50.2	47.3
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)