

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: P269153

Luminaire Tested: **GLEON-AF-03-LED-E1-SL3-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269153  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)  
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-SL3-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15790.1 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B2 - U0 - G3

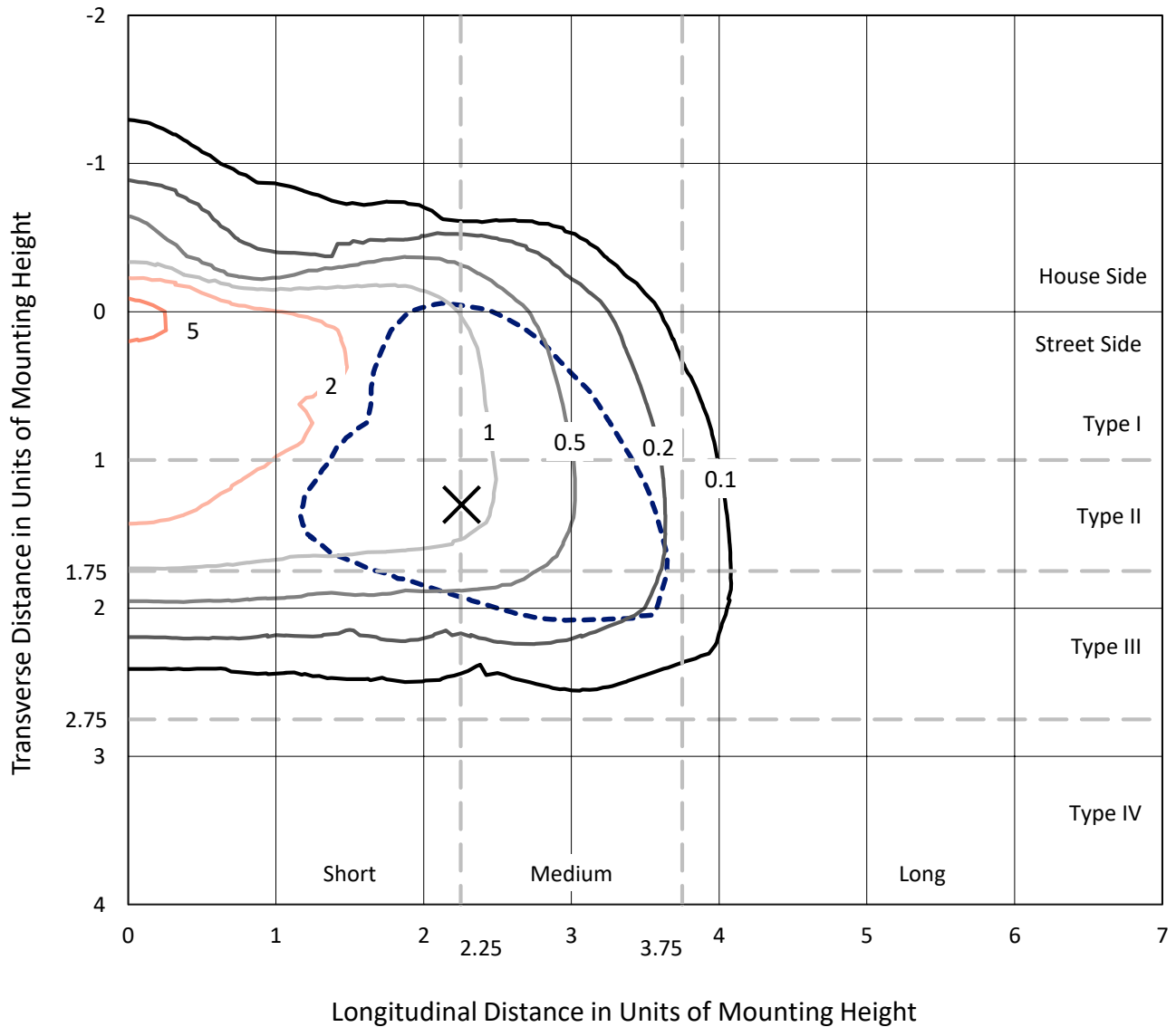
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

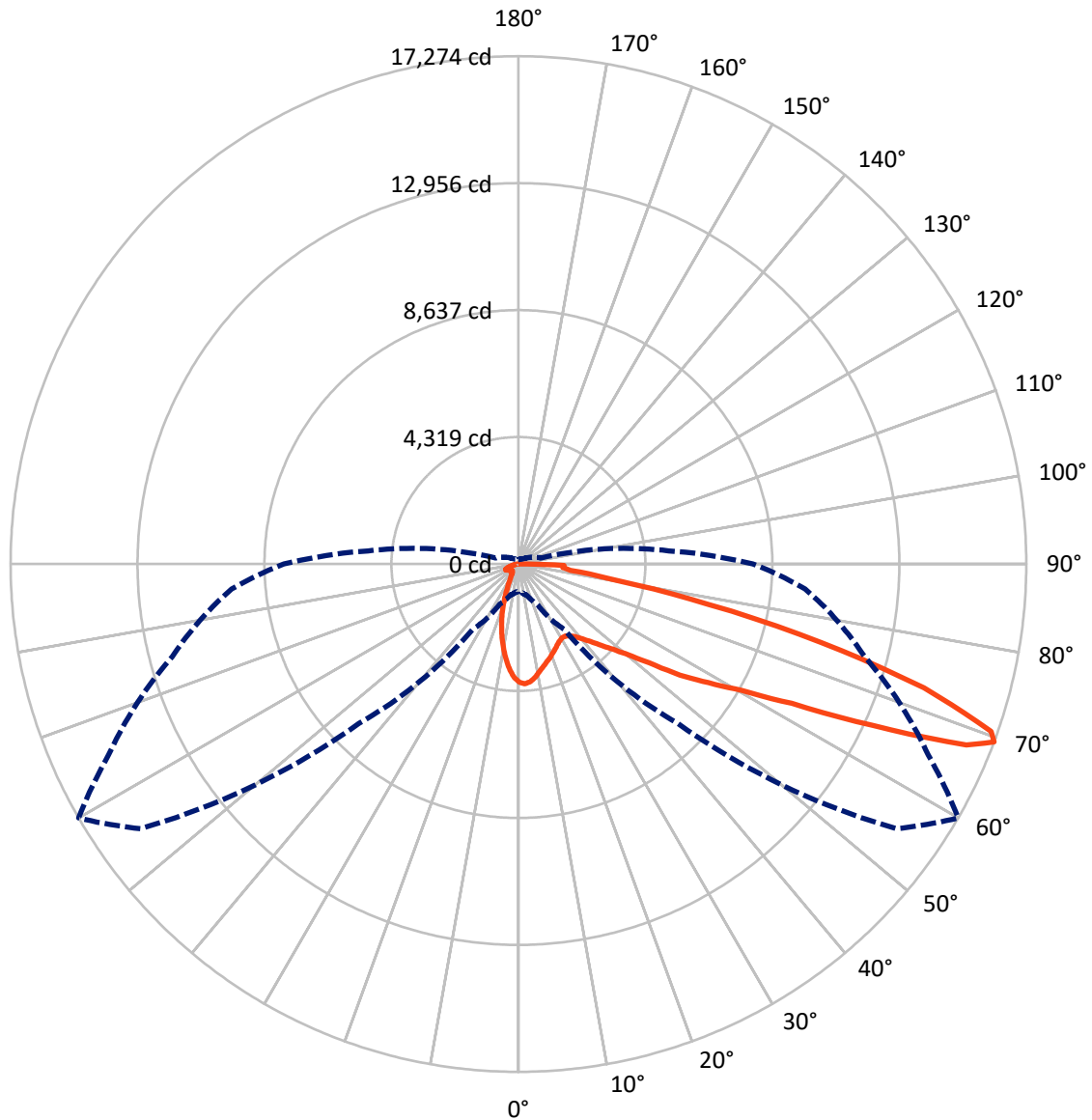
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2246.4	0.0	2246.4
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	13543.6	0.0	13543.6
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	15790.1	0.0	15790.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	340.2	2.2
10°-20°	724.8	4.6
20°-30°	923.6	5.8
30°-40°	1269.7	8.0
40°-50°	2060.1	13.0
50°-60°	3304.0	20.9
60°-70°	4397.3	27.8
70°-80°	2374.2	15.0
80°-90°	396.1	2.5
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°	15790.1	100.0
0°-180°	15790.1	100.0



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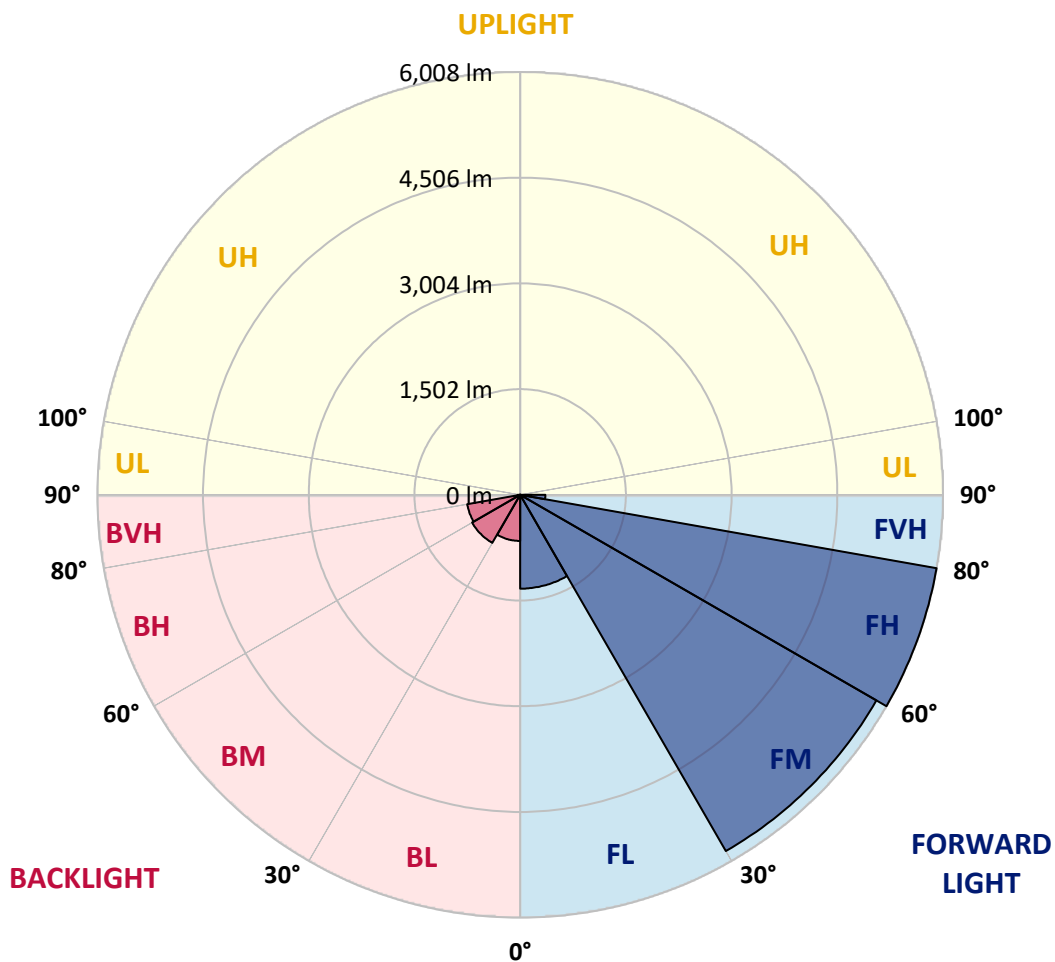
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1333.2	8.4			
FM	(30°-60°)	5844.6	37.0			
FH	(60°-80°)	6007.8	38.0			G3/7500
FVH	(80°-90°)	358.0	2.3			G3/500
BL	(0°-30°)	655.4	4.2	B2/1000		
BM	(30°-60°)	789.2	5.0	B1/1000		
BH	(60°-80°)	763.7	4.8	B2/1000		G2/1000
BVH	(80°-90°)	38.1	0.2			G1/100
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°	60°	65°	75°	85°
0°	4023.6	4023.6	4023.6	4023.6	4023.6	4023.6	4023.6	4023.6	4023.6	4023.6	4023.6
2.5°	4106.0	4115.0	4111.3	4108.9	4115.9	4105.2	4083.1	4076.1	4065.5	4040.3	3997.5
5°	3951.9	3979.3	3977.8	3998.4	4032.8	4041.8	4032.0	4033.5	4013.6	3982.4	3911.4
7.5°	3685.7	3697.1	3703.3	3748.2	3810.7	3861.1	3903.9	3917.5	3908.3	3881.7	3790.2
10°	3411.0	3420.1	3434.7	3487.3	3566.7	3636.1	3716.9	3763.4	3783.3	3778.7	3676.6
12.5°	3175.4	3184.5	3203.5	3263.1	3357.7	3443.2	3560.5	3618.6	3665.9	3694.0	3584.1
15°	2964.0	2983.9	3002.2	3070.9	3176.9	3289.1	3421.7	3494.9	3568.2	3631.5	3502.6
17.5°	2799.3	2819.2	2829.8	2892.5	3005.3	3142.6	3298.1	3384.4	3475.9	3579.7	3421.7
20°	2704.0	2713.2	2708.6	2743.7	2845.1	2990.7	3175.4	3275.3	3385.9	3530.8	3340.8
22.5°	2677.3	2678.0	2661.3	2657.5	2723.0	2845.8	3044.1	3165.4	3301.2	3498.8	3271.4
25°	2742.2	2739.8	2694.0	2656.6	2663.6	2735.2	2917.5	3058.6	3230.2	3491.9	3218.1
27.5°	2886.3	2893.1	2825.3	2755.1	2685.7	2683.3	2821.4	2970.2	3172.4	3523.2	3195.2
30°	3088.5	3099.8	3027.4	2938.1	2807.7	2700.1	2784.0	2917.5	3136.4	3588.0	3191.4
32.5°	3309.6	3321.8	3266.9	3173.1	3002.2	2803.9	2810.0	2922.1	3134.9	3678.7	3217.3
35°	3545.3	3559.1	3530.8	3451.5	3261.6	2995.4	2909.3	2996.0	3184.5	3817.5	3286.7
37.5°	3808.5	3829.8	3837.4	3761.9	3559.1	3247.8	3071.7	3136.4	3296.6	4010.7	3414.1
40°	4187.5	4217.4	4214.9	4106.7	3900.0	3588.8	3322.7	3339.4	3471.3	4268.3	3617.7
42.5°	4913.6	4919.7	4729.8	4494.2	4275.3	3947.3	3618.6	3604.8	3712.3	4594.9	3917.5
45°	5837.4	5812.3	5389.7	4934.3	4667.4	4359.1	4003.7	3936.6	4018.2	4993.0	4292.8
47.5°	6604.0	6545.9	6012.0	5383.5	5082.3	4806.9	4456.0	4338.5	4383.5	5444.5	4777.9
50°	6870.1	6826.7	6384.3	5757.2	5475.1	5353.0	5012.8	4846.5	4858.8	5983.2	5346.2
52.5°	6812.9	6806.8	6511.6	6003.6	5842.8	5926.7	5801.6	5576.5	5457.6	6581.2	5959.4
55°	6677.9	6690.9	6584.1	6290.6	6263.1	6480.5	6832.0	6665.8	6295.9	7184.5	6593.3
57.5°	6208.8	6242.4	6477.4	6651.2	6939.5	7262.9	7662.0	7614.7	7198.2	7836.5	7346.9
60°	5002.2	5079.9	5709.9	6581.2	7636.0	8647.4	8825.8	8716.1	8128.8	8645.8	8342.3
62.5°	3504.8	3585.8	4334.7	5697.8	7521.6	10211.0	10906.7	10433.0	9465.1	9838.1	9630.5
65°	1876.4	1915.2	2487.3	3953.4	6349.9	10533.6	13947.9	13227.1	11580.9	11308.0	10732.8
67.5°	1035.0	1056.4	1275.4	1996.2	4067.0	9275.9	15885.2	16429.8	14225.4	12286.5	10532.2
69°	935.9	955.7	1099.2	1511.8	2721.5	7669.5	15696.1	17274.1	15384.8	12189.6	9790.7
70°	915.4	933.6	1062.5	1393.6	2202.9	6321.7	15062.2	17058.4	15661.0	11842.5	9143.9
72.5°	823.7	843.6	968.7	1251.7	1882.5	3151.8	11931.1	14422.9	14218.6	10268.3	6935.8
75°	768.1	786.3	998.5	1225.7	1802.4	1994.5	7865.6	10629.9	10452.0	7182.8	3739.9
77.5°	328.8	327.3	462.9	1037.4	1829.0	1931.3	4226.4	6640.6	6058.6	3070.0	1074.0
80°	219.6	215.9	219.6	305.2	1677.3	1942.0	2214.3	3370.6	2546.1	782.7	529.3
82.5°	189.2	186.0	193.0	186.0	589.6	2216.6	1882.5	1792.5	1210.5	444.8	262.3
85°	127.4	122.0	166.2	167.1	278.5	1969.4	2120.4	1514.1	979.4	263.9	129.6
87.5°	61.1	59.5	96.8	118.2	163.2	800.1	2379.0	1551.5	987.7	135.0	61.8
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°	4023.6	4023.6	4023.6	4023.6	4023.6	4023.6	4023.6	4023.6	4023.6	4023.6	4023.6
2.5°	3984.6	3953.4	3922.9	3886.2	3848.1	3805.4	3784.0	3762.7	3757.3	3751.2	3729.9
5°	3874.7	3830.6	3754.2	3670.4	3581.9	3495.8	3430.1	3388.9	3357.7	3341.7	3313.4
7.5°	3732.9	3668.0	3534.7	3389.8	3240.9	3105.3	2987.8	2913.7	2843.6	2810.7	2773.3
10°	3597.9	3501.1	3293.5	3080.0	2866.4	2661.3	2468.4	2331.7	2210.5	2142.5	2094.6
12.5°	3482.0	3349.3	3061.8	2772.6	2479.7	2187.6	1898.5	1671.1	1481.2	1381.4	1330.2
15°	3369.2	3208.9	2841.2	2474.4	2098.4	1700.9	1321.0	1063.2	906.2	843.6	822.3
17.5°	3266.9	3061.8	2620.0	2173.9	1704.8	1224.2	887.9	746.0	685.8	665.1	658.3
20°	3156.3	2912.9	2390.5	1859.6	1294.4	855.8	693.3	630.8	606.4	600.2	597.3
22.5°	3049.4	2766.5	2170.8	1523.3	929.7	660.6	595.8	569.7	565.9	571.3	571.3
25°	2958.7	2635.4	1933.6	1171.6	682.6	556.1	533.1	527.0	541.6	561.4	565.3
27.5°	2890.8	2527.8	1681.1	865.0	543.8	483.6	482.7	492.7	528.7	566.7	574.3
30°	2844.4	2425.6	1411.1	624.0	456.1	425.5	437.8	459.2	511.9	565.9	580.5
32.5°	2820.7	2350.1	1129.7	482.7	390.6	373.8	394.4	420.2	472.1	522.5	541.6
35°	2839.1	2294.5	864.2	402.7	344.8	331.8	353.2	378.4	408.9	430.2	444.8
37.5°	2907.6	2272.3	652.2	360.8	313.5	301.3	318.1	332.6	344.8	350.9	357.7
40°	3055.7	2295.9	522.5	339.4	295.9	280.7	287.5	292.8	300.6	306.6	309.6
42.5°	3273.8	2366.9	468.3	331.0	286.7	264.7	263.2	265.4	275.4	286.7	289.1
45°	3578.8	2491.9	464.6	336.3	282.2	251.7	244.9	247.9	263.2	280.7	283.8
47.5°	3968.6	2682.6	495.1	352.3	286.0	244.9	233.4	237.2	256.2	279.9	283.8
50°	4440.9	2948.9	546.1	376.0	302.8	246.3	229.5	231.9	251.7	277.7	281.4
52.5°	4998.3	3326.5	601.9	398.8	320.3	256.2	232.7	227.4	245.5	268.6	273.1
55°	5618.4	3810.7	659.0	419.5	329.5	268.6	238.7	221.3	234.2	253.2	257.1
57.5°	6379.8	4488.1	758.2	439.4	335.5	276.9	244.9	215.1	219.6	233.4	236.4
60°	7410.2	5446.2	932.9	472.1	349.4	279.9	244.1	209.8	205.3	212.8	214.3
62.5°	8645.1	6486.5	1078.5	513.3	372.2	282.2	239.5	205.9	193.0	193.0	194.6
65°	9378.1	6764.9	997.7	547.6	391.3	279.9	234.2	202.1	183.9	175.3	176.2
67.5°	8756.5	5949.6	855.0	554.6	390.6	269.2	225.7	195.3	174.7	161.8	160.9
69°	7977.7	5133.4	791.0	536.2	372.2	255.5	215.1	187.7	167.9	154.1	153.3
70°	7349.9	4635.3	749.0	516.3	352.3	245.5	206.7	180.7	162.5	149.5	148.0
72.5°	5343.8	3037.3	640.0	443.9	290.6	205.9	178.6	158.6	144.9	137.4	135.7
75°	2670.4	1448.4	519.4	360.0	222.7	164.7	146.5	132.7	125.9	124.3	123.5
77.5°	877.1	663.6	371.4	268.6	165.5	128.8	118.2	108.3	106.8	111.4	109.9
80°	482.1	385.9	235.6	177.8	112.8	94.6	93.1	87.8	90.0	97.6	96.1
82.5°	245.5	200.6	145.6	106.8	76.3	67.9	74.0	71.0	74.0	80.8	80.0
85°	121.4	109.9	92.3	64.9	50.3	43.5	52.6	54.9	56.5	61.8	61.8
87.5°	70.2	64.9	48.8	30.5	25.2	22.8	30.5	29.7	35.0	38.2	37.4
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)