

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: P191152

Luminaire Tested: **GLEON-AF-04-LED-E1-SL3-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191152
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-04-LED-E1-SL3-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 615mA 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: 16184.1 lumens
Efficiency: N/A
Efficacy: 125.5 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

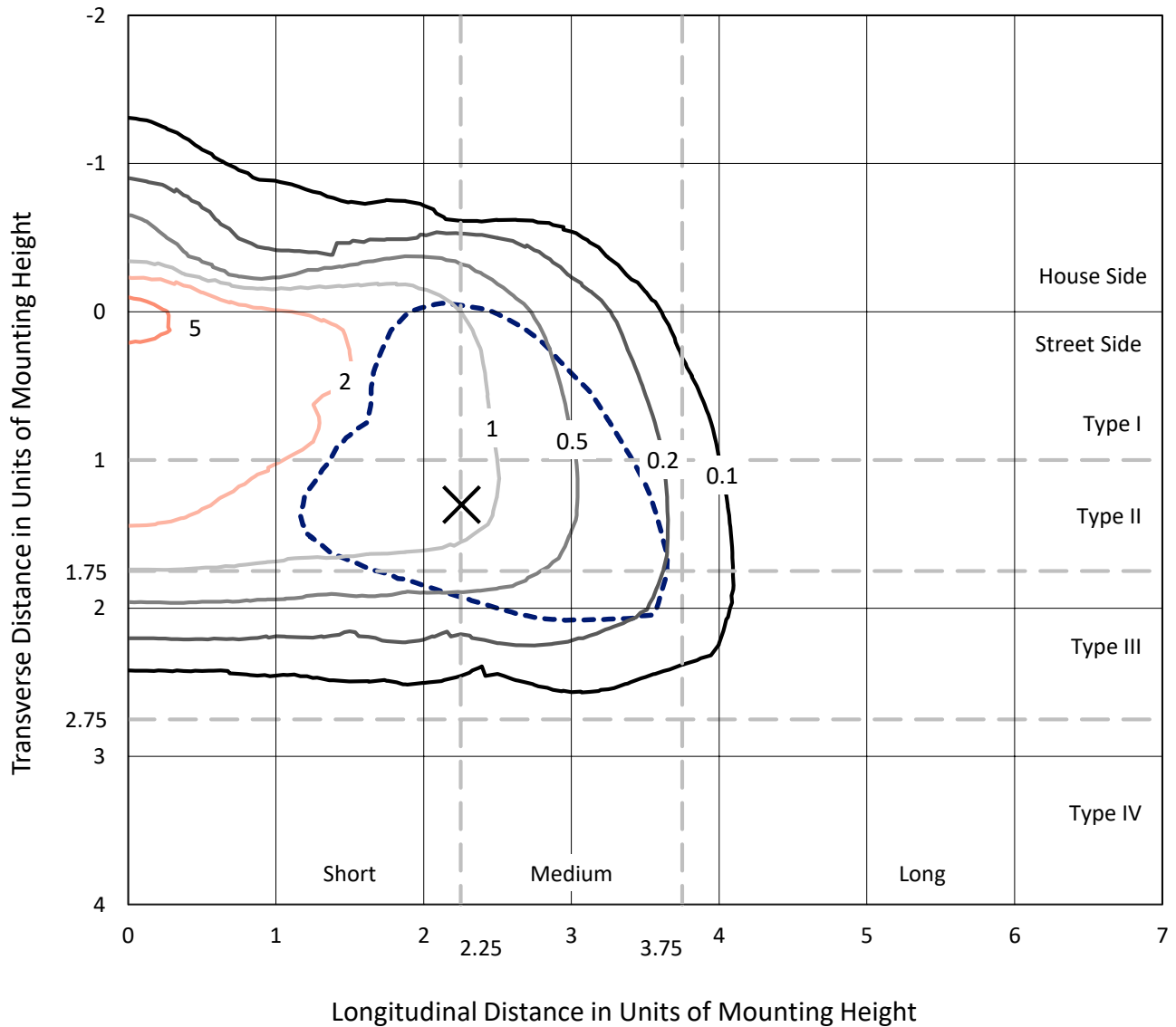
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

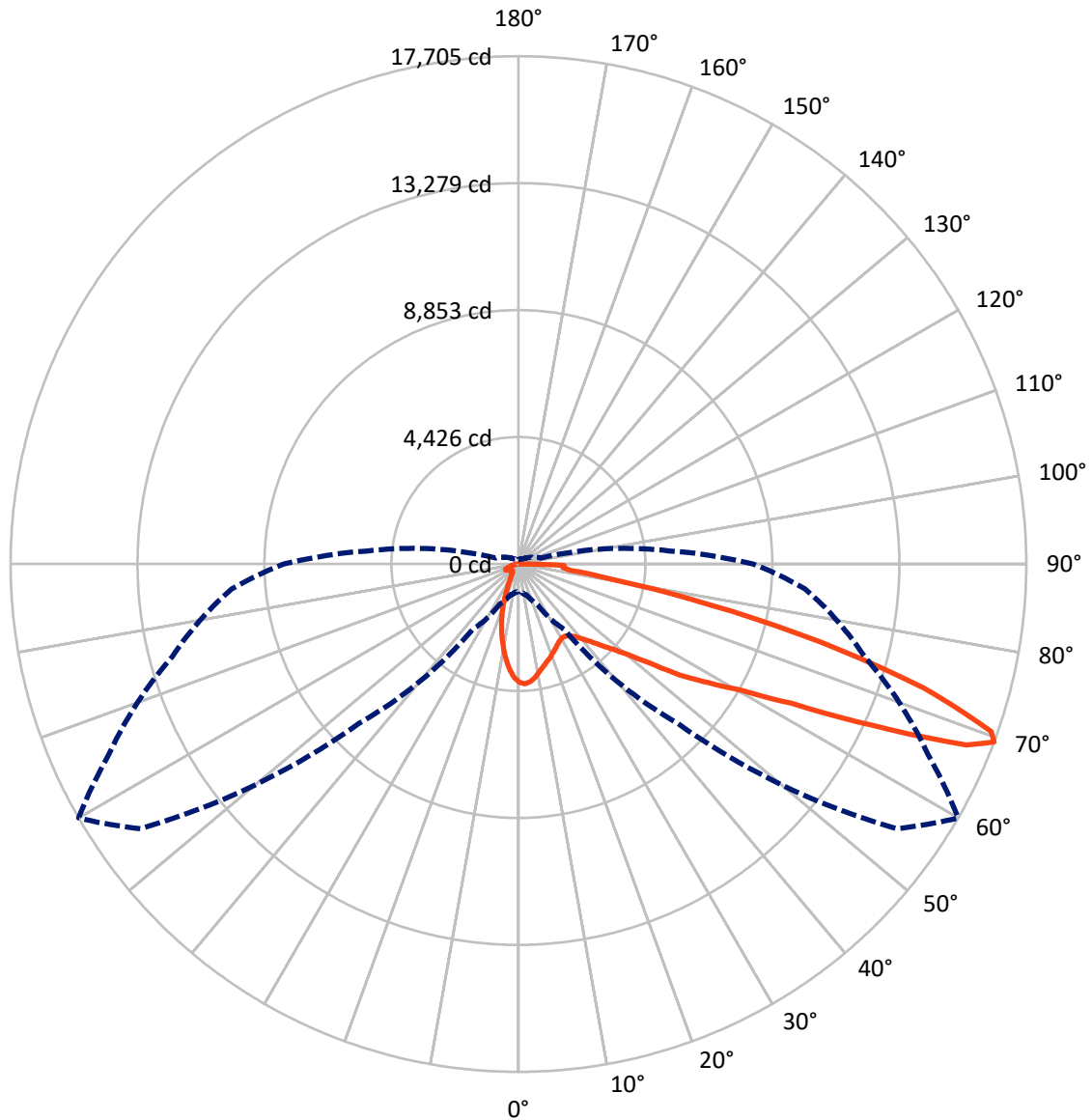
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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
House Side	Lumens	2302.5	0.0	2302.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	13881.6	0.0	13881.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	16184.1	0.0	16184.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.7	2.2
10°-20°	742.9	4.6
20°-30°	946.6	5.8
30°-40°	1301.3	8.0
40°-50°	2111.6	13.0
50°-60°	3386.4	20.9
60°-70°	4507.0	27.8
70°-80°	2433.5	15.0
80°-90°	406.0	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°	16184.1	100.0
0°-180°	16184.1	100.0



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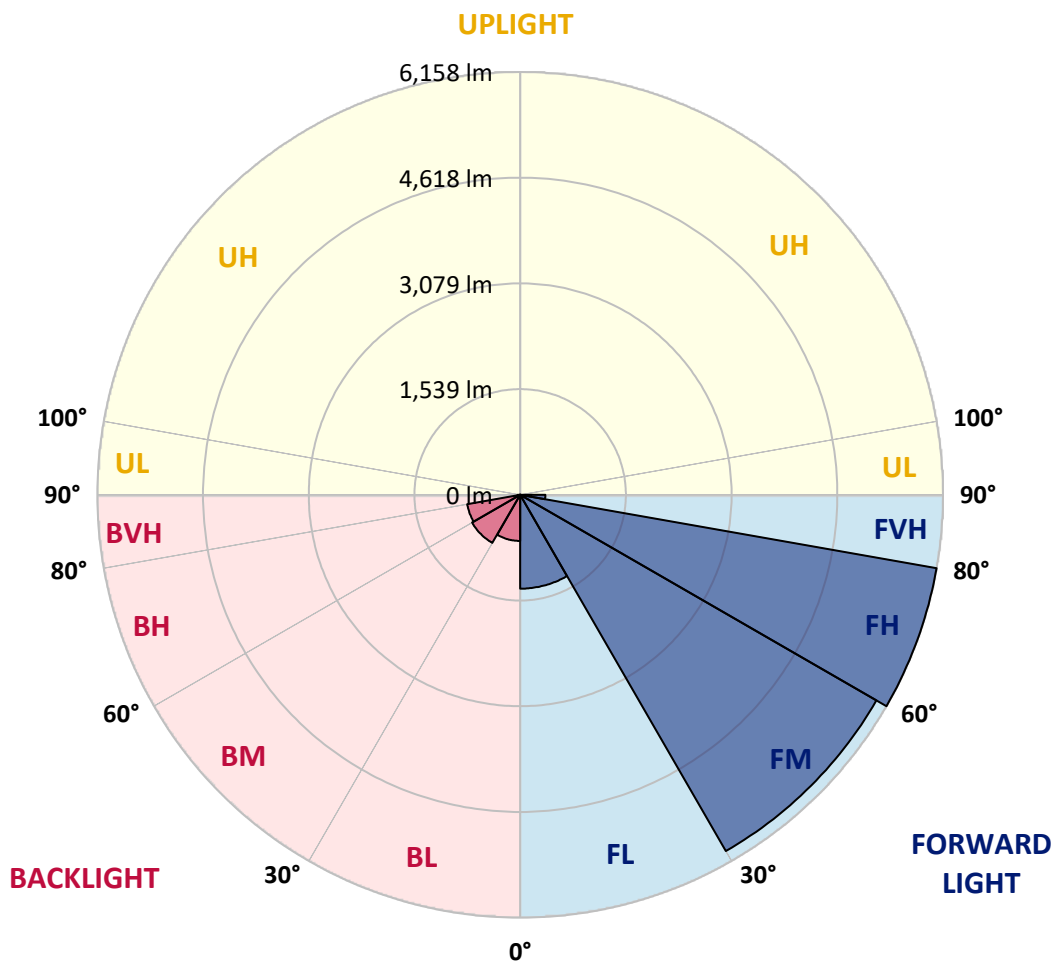
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1366.5	8.4			
FM	(30°-60°)	5990.4	37.0			
FH	(60°-80°)	6157.7	38.0			G3/7500
FVH	(80°-90°)	366.9	2.3			G3/500
BL	(0°-30°)	671.7	4.2	B2/1000		
BM	(30°-60°)	808.9	5.0	B1/1000		
BH	(60°-80°)	782.8	4.8	B2/1000		G2/1000
BVH	(80°-90°)	39.1	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°	4123.9	4123.9	4123.9	4123.9	4123.9	4123.9	4123.9	4123.9	4123.9	4123.9	4123.9
2.5°	4208.4	4217.7	4213.8	4211.5	4218.5	4207.6	4184.9	4177.9	4167.0	4141.1	4097.3
5°	4050.5	4078.6	4077.1	4098.1	4133.3	4142.7	4132.5	4134.2	4113.8	4081.8	4009.0
7.5°	3777.7	3789.3	3795.6	3841.7	3905.8	3957.4	4001.2	4015.3	4005.9	3978.6	3884.8
10°	3496.1	3505.6	3520.4	3574.4	3655.6	3726.8	3809.7	3857.3	3877.7	3873.0	3768.2
12.5°	3254.6	3264.0	3283.6	3344.5	3441.4	3529.0	3649.4	3708.8	3757.3	3786.2	3673.6
15°	3038.1	3058.4	3077.1	3147.5	3256.2	3371.1	3507.1	3582.2	3657.3	3722.1	3589.9
17.5°	2869.2	2889.5	2900.5	2964.5	3080.3	3221.0	3380.4	3468.8	3562.6	3668.9	3507.1
20°	2771.5	2780.8	2776.2	2812.1	2916.1	3065.4	3254.6	3357.0	3470.4	3618.9	3424.2
22.5°	2744.1	2744.9	2727.7	2723.8	2791.0	2916.8	3120.1	3244.4	3383.6	3586.1	3353.1
25°	2810.6	2808.2	2761.3	2723.0	2730.1	2803.5	2990.4	3135.0	3310.9	3579.0	3298.4
27.5°	2958.3	2965.3	2895.8	2823.9	2752.7	2750.3	2891.9	3044.3	3251.4	3611.1	3275.0
30°	3165.5	3177.2	3102.9	3011.5	2877.8	2767.6	2853.5	2990.4	3214.7	3677.5	3271.0
32.5°	3392.2	3404.7	3348.4	3252.3	3077.1	2873.9	2880.1	2995.1	3213.2	3770.6	3297.6
35°	3633.7	3647.8	3618.9	3537.6	3342.9	3070.1	2981.8	3070.9	3264.0	3912.9	3368.8
37.5°	3903.5	3925.4	3933.2	3855.8	3647.8	3328.9	3148.2	3214.7	3378.9	4110.6	3499.3
40°	4292.0	4322.6	4320.2	4209.1	3997.3	3678.3	3405.5	3422.7	3557.9	4375.0	3708.0
42.5°	5036.3	5042.5	4847.9	4606.3	4381.9	4045.8	3708.8	3694.8	3805.0	4709.6	4015.3
45°	5983.0	5957.3	5524.1	5057.4	4783.8	4467.9	4103.7	4034.8	4118.5	5117.6	4399.9
47.5°	6768.8	6709.3	6162.1	5517.9	5209.1	4926.8	4567.3	4446.9	4493.0	5580.4	4897.2
50°	7041.6	6997.1	6543.6	5901.0	5611.7	5486.6	5138.0	4967.6	4980.0	6132.4	5479.5
52.5°	6983.0	6976.7	6674.1	6153.5	5988.6	6074.5	5946.3	5715.6	5593.7	6745.3	6108.1
55°	6844.6	6857.9	6748.4	6447.5	6419.3	6642.1	7002.5	6832.1	6452.9	7363.7	6757.8
57.5°	6363.8	6398.1	6639.0	6817.3	7112.8	7444.2	7853.1	7804.6	7377.7	8032.1	7530.2
60°	5127.0	5206.7	5852.5	6745.3	7826.5	8863.2	9046.2	8933.5	8331.5	8861.6	8550.4
62.5°	3592.3	3675.3	4442.9	5840.0	7709.3	10465.8	11178.8	10693.3	9701.3	10083.5	9870.9
65°	1923.2	1963.0	2549.4	4052.0	6508.4	10796.5	14295.8	13557.1	11869.9	11590.0	11000.6
67.5°	1060.9	1082.8	1307.1	2045.9	4168.5	9507.4	16281.6	16839.8	14580.4	12593.1	10795.0
69°	959.2	979.6	1126.6	1549.5	2789.5	7861.0	16087.7	17705.2	15768.8	12493.8	10035.0
70°	938.1	956.9	1089.0	1428.3	2257.9	6479.5	15438.1	17484.0	16051.7	12138.1	9372.2
72.5°	844.3	864.7	992.9	1282.9	1929.5	3230.4	12228.8	14782.9	14573.4	10524.5	7108.8
75°	787.3	806.0	1023.4	1256.4	1847.3	2044.4	8061.9	10895.0	10712.9	7362.2	3833.1
77.5°	337.0	335.4	474.5	1063.3	1874.8	1979.5	4331.9	6806.3	6209.8	3146.7	1100.8
80°	225.2	221.3	225.2	312.7	1719.2	1990.5	2269.5	3454.7	2609.6	802.1	542.6
82.5°	193.8	190.8	197.8	190.8	604.4	2271.9	1929.5	1837.2	1240.7	455.8	268.9
85°	130.5	125.1	170.4	171.2	285.4	2018.6	2173.4	1551.8	1003.8	270.5	132.9
87.5°	62.5	61.0	99.3	121.2	167.3	820.1	2438.4	1590.2	1012.4	138.4	63.3
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°	4123.9	4123.9	4123.9	4123.9	4123.9	4123.9	4123.9	4123.9	4123.9	4123.9	4123.9
2.5°	4084.1	4052.0	4020.7	3983.3	3944.2	3900.4	3878.5	3856.6	3851.1	3844.9	3823.0
5°	3971.5	3926.2	3847.9	3762.0	3671.3	3583.0	3515.7	3473.5	3441.4	3425.0	3396.1
7.5°	3826.1	3759.7	3622.8	3474.2	3321.8	3182.7	3062.3	2986.4	2914.5	2880.9	2842.6
10°	3687.7	3588.4	3375.7	3156.9	2938.0	2727.7	2529.9	2389.9	2265.6	2196.1	2146.8
12.5°	3568.9	3432.8	3138.1	2841.9	2541.6	2242.2	1945.9	1712.9	1518.3	1415.9	1363.5
15°	3453.2	3289.0	2912.1	2536.1	2150.8	1743.4	1354.1	1089.9	928.7	864.7	842.8
17.5°	3348.4	3138.1	2685.5	2228.1	1747.3	1254.8	910.0	764.6	702.9	681.7	674.6
20°	3235.1	2985.7	2450.2	1906.0	1326.7	877.2	710.6	646.5	621.5	615.3	612.1
22.5°	3125.6	2835.5	2225.0	1561.2	953.0	677.0	610.6	584.0	580.1	585.5	585.5
25°	3032.5	2701.1	1981.9	1200.8	699.7	569.9	546.5	540.2	555.1	575.4	579.3
27.5°	2963.0	2590.8	1723.1	886.6	557.4	495.6	494.9	505.0	541.8	580.8	588.7
30°	2915.3	2486.1	1446.4	639.5	467.5	436.3	448.8	470.7	524.6	580.1	594.9
32.5°	2891.1	2408.7	1157.9	494.9	400.3	383.1	404.2	430.8	484.0	535.5	555.1
35°	2909.8	2351.7	885.8	412.8	353.3	340.0	361.9	387.8	419.0	440.9	455.8
37.5°	2980.2	2329.0	668.4	369.8	321.3	308.8	326.0	340.8	353.3	359.7	366.6
40°	3131.9	2353.2	535.5	347.9	303.3	287.7	294.7	300.2	308.0	314.3	317.4
42.5°	3355.5	2425.9	480.1	339.3	294.0	271.3	269.8	272.1	282.2	294.0	296.3
45°	3668.2	2554.1	476.1	344.7	289.3	258.0	250.9	254.1	269.8	287.7	290.8
47.5°	4067.7	2749.6	507.4	361.2	293.2	250.9	239.3	243.2	262.7	286.9	290.8
50°	4551.6	3022.4	559.8	385.4	310.4	252.6	235.3	237.6	258.0	284.6	288.5
52.5°	5123.0	3409.4	616.8	408.9	328.4	262.7	238.4	232.9	251.7	275.2	279.9
55°	5758.7	3905.8	675.5	429.9	337.8	275.2	244.7	226.7	240.0	259.5	263.5
57.5°	6538.9	4600.1	777.1	450.3	344.0	283.8	250.9	220.4	225.2	239.3	242.3
60°	7595.1	5582.0	956.2	484.0	358.0	286.9	250.2	215.0	210.3	218.1	219.7
62.5°	8860.8	6648.4	1105.5	526.1	381.6	289.3	245.5	211.0	197.8	197.8	199.4
65°	9612.2	6933.8	1022.5	561.3	401.1	286.9	240.0	207.1	188.4	179.8	180.6
67.5°	8975.0	6098.0	876.4	568.4	400.3	276.0	231.4	200.1	179.0	165.7	165.0
69°	8176.8	5261.4	810.7	549.6	381.6	261.9	220.4	192.3	172.0	157.9	157.1
70°	7533.3	4751.0	767.7	529.3	361.2	251.7	211.9	185.3	166.5	153.2	151.7
72.5°	5477.3	3113.1	655.9	455.0	297.9	211.0	182.9	162.6	148.5	140.8	139.1
75°	2737.0	1484.6	532.4	369.0	228.3	168.9	150.1	136.1	129.0	127.5	126.6
77.5°	899.1	680.2	380.7	275.2	169.6	132.2	121.2	111.0	109.5	114.2	112.6
80°	494.1	395.6	241.6	182.2	115.7	97.0	95.3	89.9	92.3	100.0	98.5
82.5°	251.7	205.6	149.4	109.5	78.2	69.6	75.8	72.7	75.8	82.9	82.0
85°	124.3	112.6	94.6	66.5	51.6	44.6	53.9	56.3	57.9	63.3	63.3
87.5°	71.9	66.5	50.0	31.3	25.8	23.4	31.3	30.5	36.0	39.1	38.3
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)