

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: P192034

Luminaire Tested: **GLEON-AF-06-LED-E1-SL4-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192034
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-SL4-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 615mA 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: 22289 lumens
Efficiency: N/A
Efficacy: 115.5 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 - G4

Input Watts (W): 193
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

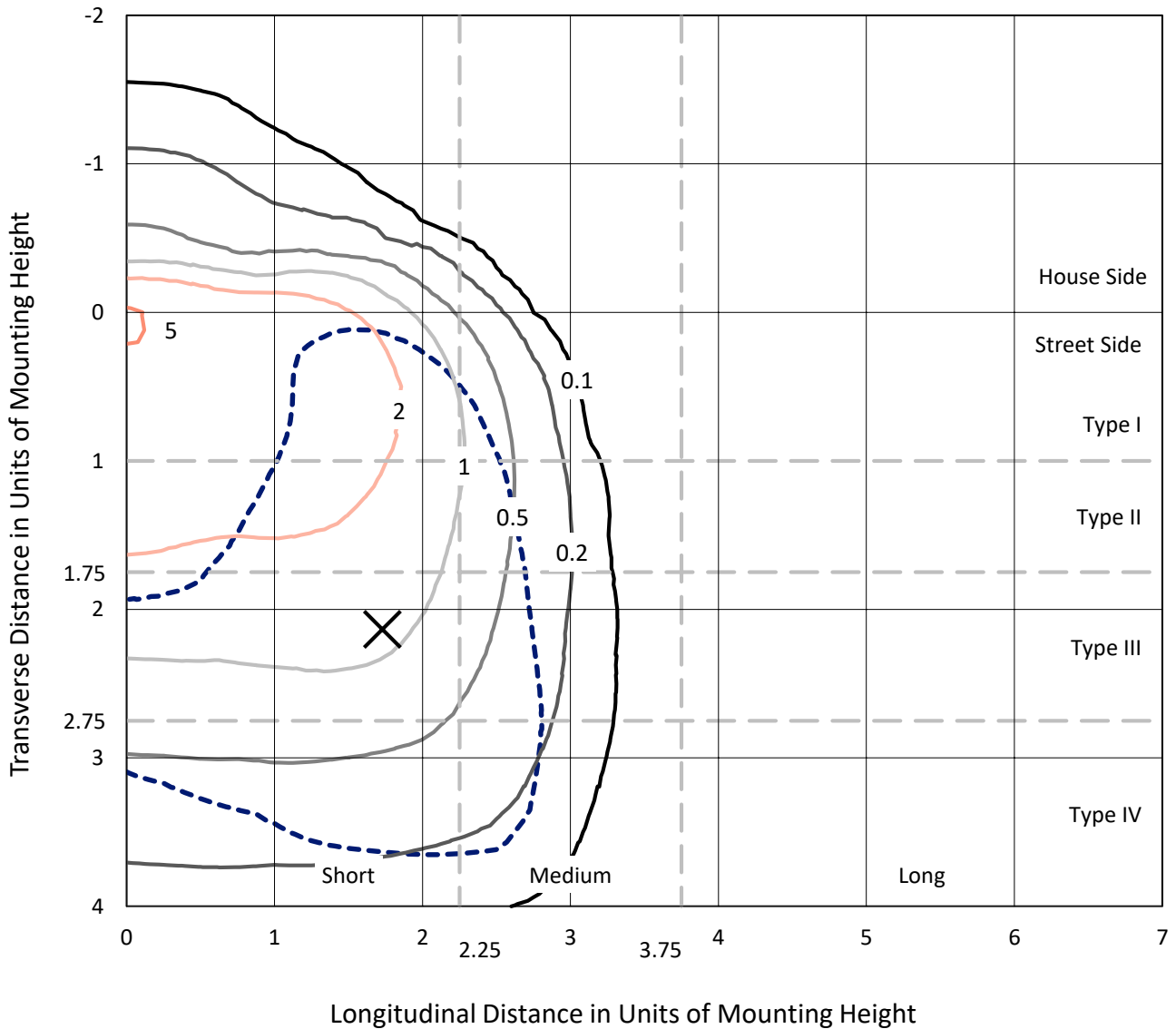


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Iso-Footcandle Lines of Horizontal Illumination

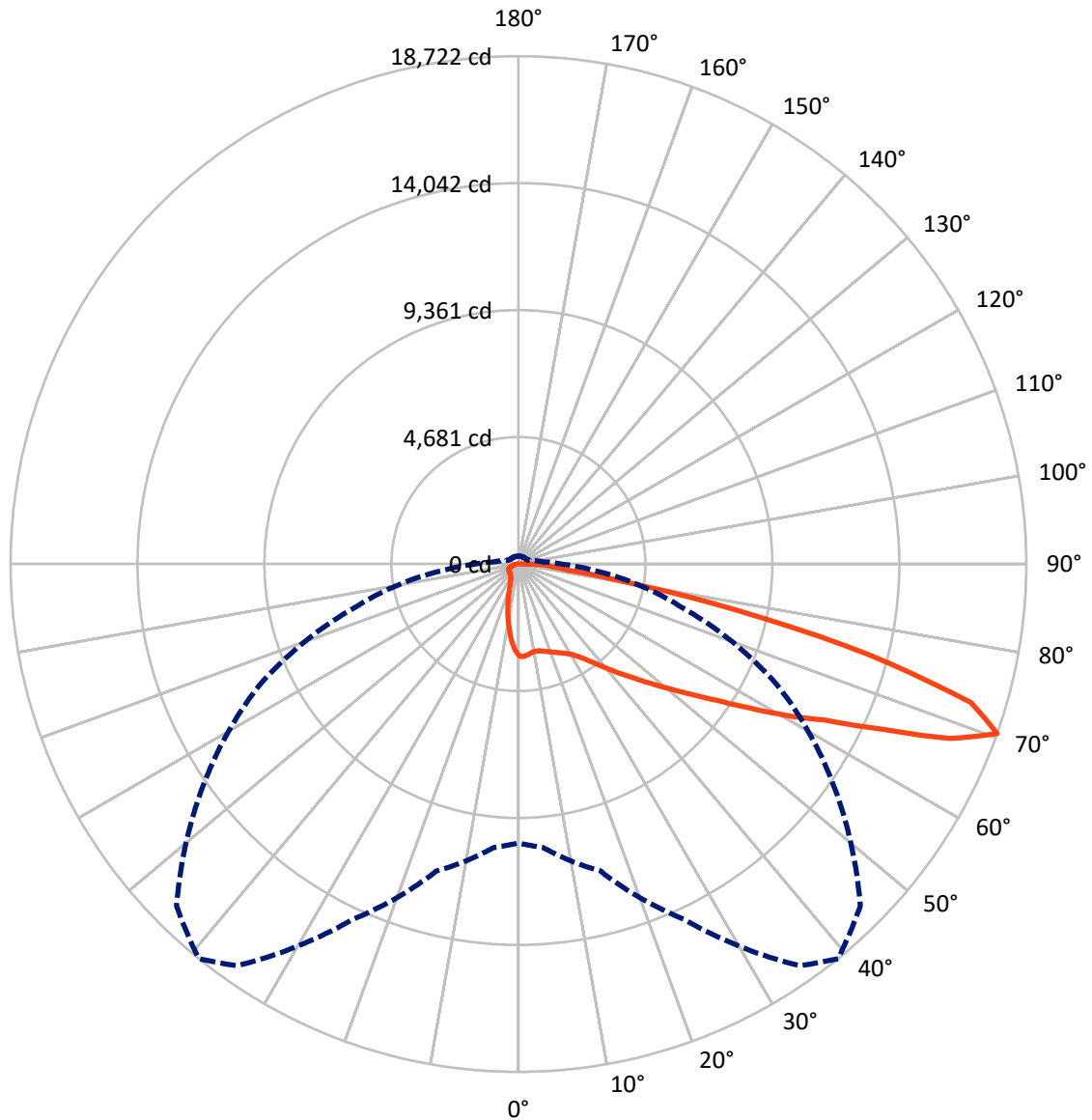
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	2535.0	0.0	2535.0
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	19754.0	0.0	19754.0
	% Fixture	88.6	0.0	88.6
Total	Lumens	22289.0	0.0	22289.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.4	1.3
10°-20°	725.9	3.3
20°-30°	1130.2	5.1
30°-40°	1760.7	7.9
40°-50°	2955.9	13.3
50°-60°	4695.6	21.1
60°-70°	6263.5	28.1
70°-80°	3782.3	17.0
80°-90°	684.6	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°	22289.0	100.0
0°-180°	22289.0	100.0



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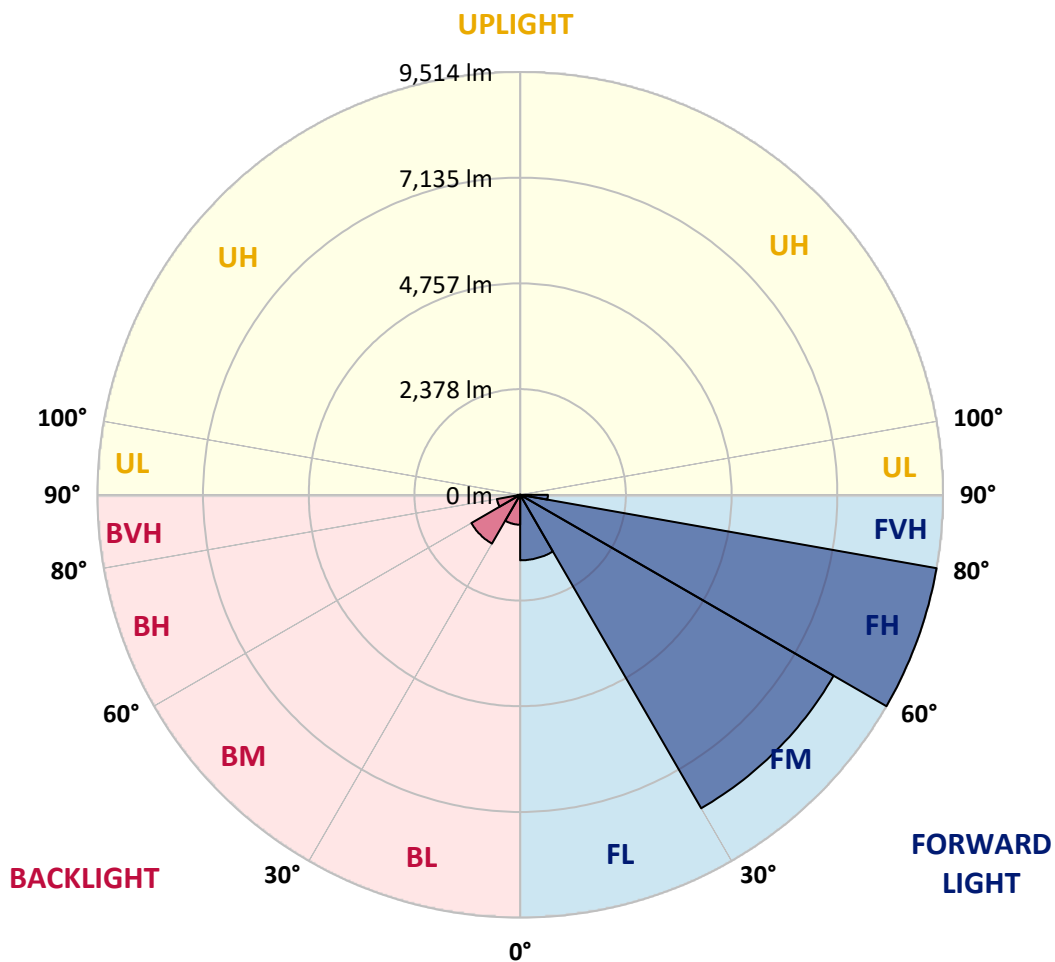
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1474.0	6.6			
FM	(30°-60°)	8143.5	36.5			
FH	(60°-80°)	9513.6	42.7			G4/12000
FVH	(80°-90°)	622.9	2.8			G4/750
BL	(0°-30°)	672.5	3.0	B2/1000		
BM	(30°-60°)	1268.6	5.7	B2/2500		
BH	(60°-80°)	532.2	2.4	B2/1000		G2/1000
BVH	(80°-90°)	61.7	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°	3383.8	3383.8	3383.8	3383.8	3383.8	3383.8	3383.8	3383.8	3383.8	3383.8	3383.8
2.5°	3449.5	3448.4	3439.3	3432.5	3426.9	3424.6	3429.1	3412.1	3397.4	3379.3	3360.0
5°	3423.5	3422.3	3407.6	3394.0	3380.4	3375.9	3374.7	3344.2	3326.0	3298.8	3262.6
7.5°	3395.1	3389.5	3370.2	3347.6	3323.8	3312.4	3301.1	3261.4	3241.0	3213.8	3171.9
10°	3365.7	3358.9	3340.8	3318.1	3295.4	3278.4	3259.2	3220.6	3199.1	3178.7	3130.0
12.5°	3335.1	3329.4	3324.9	3314.7	3298.8	3284.1	3269.4	3236.5	3213.8	3190.0	3133.4
15°	3330.6	3328.3	3338.5	3345.3	3336.2	3327.2	3311.3	3283.0	3259.2	3235.4	3161.7
17.5°	3366.8	3365.7	3391.7	3409.9	3405.3	3389.5	3368.0	3336.2	3317.0	3296.6	3204.8
20°	3446.1	3451.8	3483.5	3507.3	3484.7	3462.0	3426.9	3382.7	3372.5	3363.4	3249.0
22.5°	3595.7	3601.4	3624.1	3633.1	3574.2	3541.3	3492.6	3435.9	3429.1	3435.9	3302.2
25°	3829.2	3823.5	3820.1	3786.1	3678.5	3627.5	3565.1	3506.2	3509.6	3540.2	3377.0
27.5°	4138.5	4107.9	4060.4	3958.4	3787.2	3730.6	3654.7	3600.3	3621.8	3680.7	3489.2
30°	4459.2	4425.3	4315.3	4148.7	3930.0	3867.7	3782.7	3721.5	3778.2	3871.1	3638.8
32.5°	4756.2	4751.6	4590.7	4376.5	4127.2	4072.8	3987.8	3918.7	4010.5	4152.1	3863.2
35°	5080.3	5090.5	4897.8	4640.6	4393.5	4336.9	4275.7	4223.5	4345.9	4540.8	4188.4
37.5°	5427.0	5447.4	5219.6	4929.5	4697.2	4673.4	4637.2	4614.5	4803.7	5073.5	4642.8
40°	5890.5	5870.1	5553.9	5255.9	5070.1	5068.9	5057.6	5084.8	5399.8	5769.3	5226.4
42.5°	6386.9	6326.8	5908.6	5606.1	5479.2	5517.7	5540.3	5651.4	6117.2	6614.6	5938.1
45°	6921.8	6786.9	6276.9	5976.6	5933.6	6015.2	6092.2	6333.6	6961.4	7576.8	6717.8
47.5°	7349.0	7218.7	6657.7	6365.3	6459.4	6582.9	6731.4	7113.3	7906.5	8570.6	7487.2
50°	7685.5	7600.6	7041.9	6818.6	7038.5	7228.9	7471.4	7996.0	8890.2	9538.4	8200.0
52.5°	8011.9	7948.5	7429.4	7283.2	7718.4	7981.3	8311.1	8943.4	9898.7	10490.3	8799.5
55°	8306.6	8261.2	7846.5	7862.3	8518.5	8860.7	9275.5	10022.3	10998.0	11339.1	9307.2
57.5°	8638.6	8580.8	8322.4	8588.7	9546.3	9990.5	10529.9	11234.8	12029.2	12093.8	9693.6
60°	8972.9	8923.0	8850.5	9427.3	10851.8	11318.7	11829.8	12410.0	13075.2	12679.7	9671.0
62.5°	9263.0	9268.7	9396.7	10307.8	12130.1	12670.6	13293.9	13867.3	14021.4	12781.7	8955.9
65°	9754.8	9844.3	10226.2	11554.4	13929.6	14652.6	15417.6	15325.8	14283.2	11828.6	7422.6
67.5°	10339.6	10497.1	11271.1	13215.7	16204.0	17163.9	17459.6	15655.5	13235.0	9615.4	5291.0
70°	10280.6	10497.1	11722.1	14454.3	18078.4	18722.0	17824.5	14168.7	10509.5	6281.5	2810.4
72.5°	9129.3	9438.6	10803.1	13886.6	17488.0	17431.3	15474.2	10562.8	6244.1	2522.6	1098.1
75°	6958.0	7270.8	8444.8	10970.8	13822.0	13346.0	10979.8	5835.0	2369.6	1001.8	692.4
77.5°	4002.6	4245.1	5151.6	6728.0	8768.9	8280.5	6111.5	2595.1	1153.6	698.1	540.5
80°	2234.7	2369.6	2920.3	3413.3	4297.2	3939.1	2734.5	1612.6	861.3	506.6	417.0
82.5°	1766.7	1886.8	2361.6	2153.1	1962.7	1810.9	1570.7	1435.8	687.9	319.6	249.3
85°	1543.5	1657.9	1999.0	1695.3	1340.6	1229.6	1276.0	1413.1	534.9	192.6	213.0
87.5°	1430.1	1583.1	1781.4	1306.6	1043.7	924.7	1177.4	1549.1	172.3	120.1	86.1
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°	3383.8	3383.8	3383.8	3383.8	3383.8	3383.8	3383.8	3383.8	3383.8	3383.8	3383.8
2.5°	3343.0	3324.9	3295.4	3269.4	3228.6	3207.0	3183.2	3166.2	3152.6	3141.3	3159.4
5°	3239.9	3205.9	3143.6	3076.7	2997.4	2935.1	2882.9	2834.2	2800.2	2777.5	2793.4
7.5°	3142.4	3086.9	2989.5	2868.2	2732.2	2616.6	2521.4	2437.6	2379.8	2342.4	2357.1
10°	3086.9	3017.8	2867.1	2676.7	2476.1	2295.9	2146.3	2017.1	1927.6	1876.6	1884.6
12.5°	3073.3	2983.8	2775.3	2513.5	2239.3	1988.8	1778.0	1599.0	1473.2	1407.5	1409.7
15°	3083.5	2969.1	2689.1	2357.1	2010.3	1694.2	1431.3	1213.7	1067.5	992.7	991.6
17.5°	3100.5	2957.7	2598.5	2188.3	1778.0	1410.9	1117.4	904.3	775.1	715.1	710.5
20°	3118.6	2939.6	2496.5	2005.8	1536.7	1148.0	874.9	708.3	626.7	593.8	591.5
22.5°	3144.7	2923.7	2391.1	1813.2	1299.8	934.9	719.6	607.4	564.3	547.3	545.1
25°	3186.6	2915.8	2278.9	1612.6	1086.8	781.9	626.7	557.5	532.6	521.3	520.2
27.5°	3256.9	2927.1	2173.5	1417.7	913.4	678.8	574.5	532.6	514.5	504.3	503.2
30°	3347.6	2962.3	2062.5	1233.0	778.5	608.5	542.8	515.6	500.9	490.7	490.7
32.5°	3498.3	3021.2	1945.8	1073.2	682.2	559.8	519.0	500.9	488.4	480.5	479.4
35°	3720.4	3132.2	1837.0	940.6	613.1	524.7	498.6	485.0	476.0	471.4	471.4
37.5°	4043.4	3307.9	1740.6	845.4	571.1	500.9	479.4	469.2	463.5	463.5	463.5
40°	4477.4	3550.4	1662.4	781.9	547.3	483.9	464.6	456.7	453.3	454.4	454.4
42.5°	5013.4	3865.4	1610.3	737.7	536.0	473.7	454.4	447.6	444.2	443.1	444.2
45°	5624.2	4223.5	1604.6	704.9	524.7	466.9	447.6	440.8	434.0	429.5	429.5
47.5°	6218.0	4587.3	1651.1	693.5	512.2	459.0	442.0	435.2	425.0	414.8	414.8
50°	6742.7	4896.7	1713.4	698.1	507.7	447.6	432.9	429.5	413.6	402.3	401.2
52.5°	7159.7	5134.7	1764.4	711.7	512.2	439.7	421.6	422.7	405.7	393.2	392.1
55°	7494.0	5291.0	1750.8	725.3	522.4	435.2	411.4	413.6	400.0	387.6	387.6
57.5°	7640.2	5233.2	1600.1	713.9	530.4	436.3	403.4	412.5	401.2	389.8	389.8
60°	7326.3	4719.9	1317.9	664.1	520.2	432.9	400.0	417.0	415.9	404.6	403.4
62.5°	6376.7	3800.8	1022.2	590.4	485.0	415.9	391.0	415.9	428.4	425.0	423.8
65°	4914.8	2707.3	780.8	511.1	437.4	387.6	367.2	389.8	406.8	411.4	410.2
67.5°	3190.0	1659.0	601.7	436.3	384.2	354.7	336.6	346.8	350.2	350.2	347.9
70°	1568.4	893.0	479.4	367.2	329.8	319.6	309.4	303.7	298.0	293.5	293.5
72.5°	774.0	583.6	394.4	310.5	284.4	279.9	277.6	270.8	266.3	260.6	258.4
75°	572.3	474.8	335.4	261.8	244.8	240.2	244.8	239.1	238.0	233.4	231.2
77.5°	470.3	404.6	289.0	224.4	209.6	201.7	208.5	209.6	210.8	204.0	201.7
80°	381.9	342.2	241.4	185.8	172.3	166.6	171.1	180.2	182.4	172.3	167.7
82.5°	275.4	279.9	194.9	145.1	133.7	129.2	138.3	149.6	151.9	137.1	133.7
85°	231.2	233.4	149.6	103.1	91.8	85.0	99.7	111.1	119.0	104.3	100.9
87.5°	96.3	137.1	86.1	57.8	51.0	44.2	53.3	58.9	71.4	65.7	64.6
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)