

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: P453474

Luminaire Tested: **GALN-SA4C-730-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA 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: 25283 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

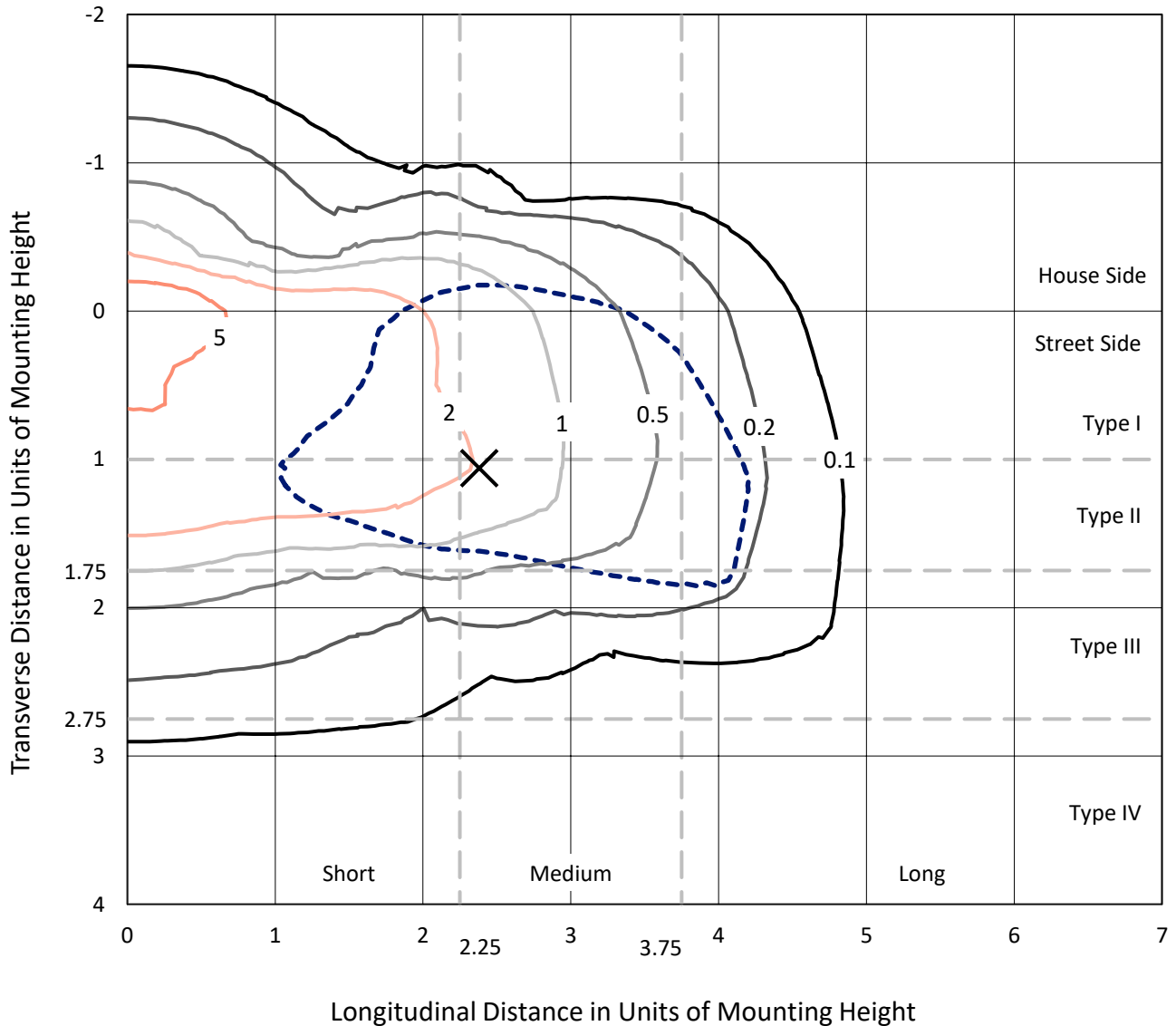
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453474
 CATALOG NUMBER: GALN-SA4C-730-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

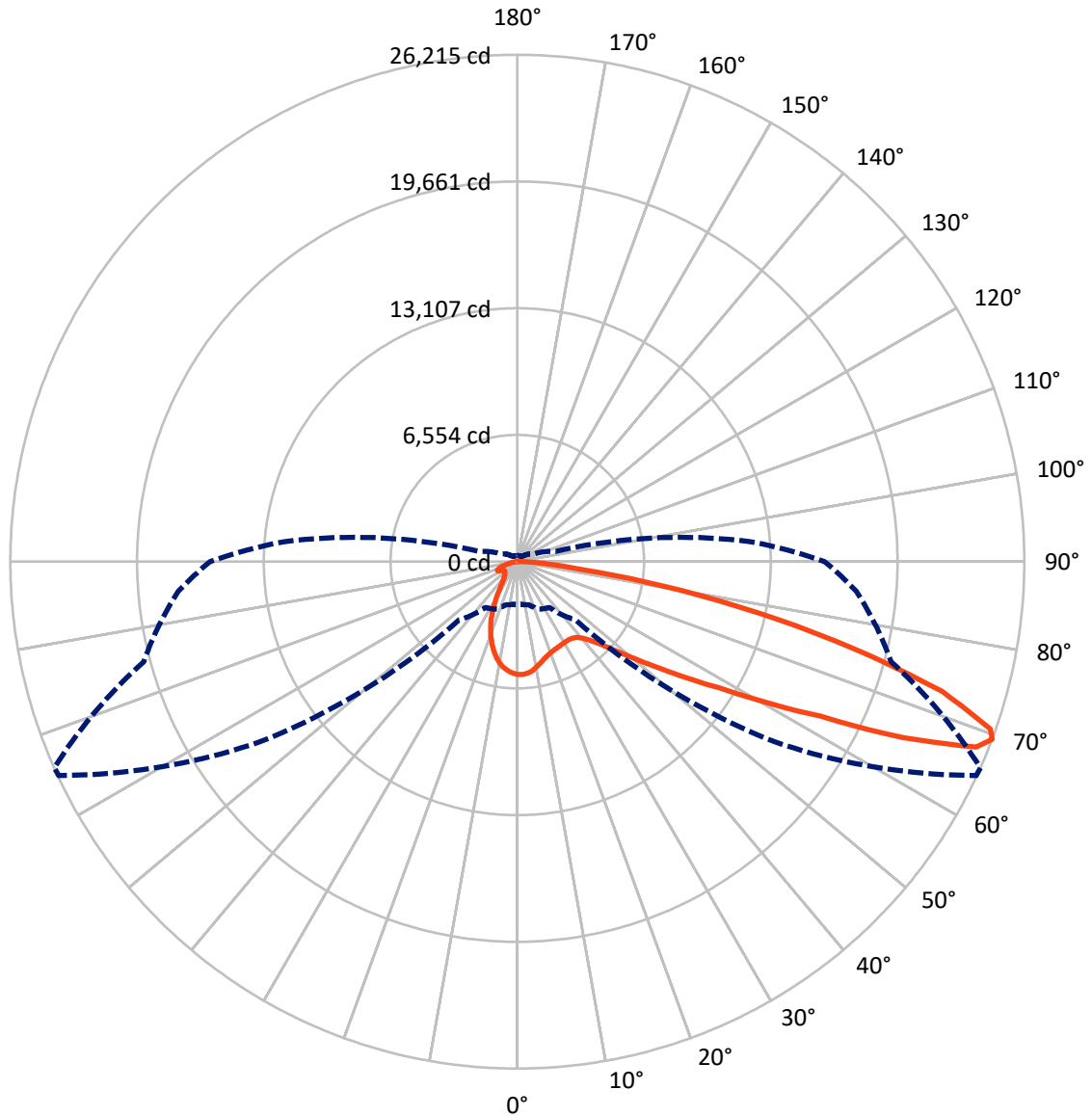
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Medium - N/A

REPORT NUMBER: P453474
CATALOG NUMBER: GALN-SA4C-730-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P453474

CATALOG NUMBER: GALN-SA4C-730-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4754.8	0.0	4754.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	20528.2	0.0	20528.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	25283.0	0.0	25283.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.0	2.0
10°-20°	1202.6	4.8
20°-30°	1637.2	6.5
30°-40°	2200.0	8.7
40°-50°	3285.0	13.0
50°-60°	5225.3	20.7
60°-70°	6426.8	25.4
70°-80°	4181.6	16.5
80°-90°	617.5	2.4
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°	25283.0	100.0
0°-180°	25283.0	100.0

Coefficient of Utilization



REPORT NUMBER: P453474

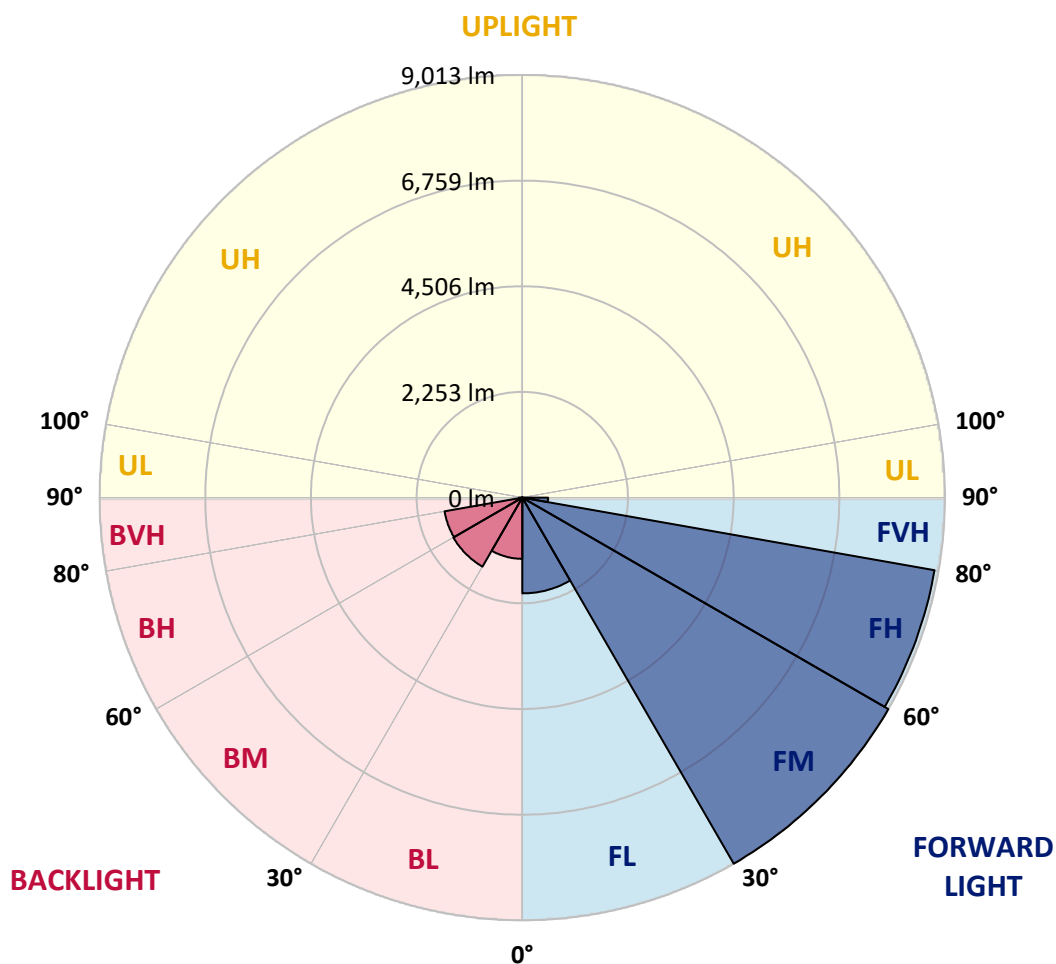
CATALOG NUMBER: GALN-SA4C-730-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2041.6	8.1			
FM	(30°-60°)	9012.6	35.6			
FH	(60°-80°)	8925.0	35.3			G4/12000
FVH	(80°-90°)	549.0	2.2			G4/750
BL	(0°-30°)	1305.2	5.2	B3/2500		
BM	(30°-60°)	1697.7	6.7	B2/2500		
BH	(60°-80°)	1683.4	6.7	B3/2500		G3/2500
BVH	(80°-90°)	68.5	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-G4

Type III Medium





REPORT NUMBER: P453474
 CATALOG NUMBER: GALN-SA4C-730-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5838.5	5838.5	5838.5	5838.5	5838.5	5838.5	5838.5	5838.5	5838.5	5838.5	5838.5
2.5°	5634.1	5656.5	5681.7	5709.7	5762.9	5792.3	5813.3	5837.1	5839.9	5852.5	5842.7
5°	5218.3	5244.9	5282.7	5335.9	5415.7	5540.3	5669.1	5774.1	5786.7	5845.5	5862.3
7.5°	4871.1	4886.5	4917.3	5002.7	5116.1	5254.7	5442.3	5655.1	5685.9	5825.9	5875.0
10°	4588.2	4603.6	4640.0	4728.2	4840.3	5013.9	5219.7	5499.7	5524.9	5765.7	5877.8
12.5°	4376.8	4390.8	4430.0	4516.8	4645.6	4808.1	5034.9	5331.7	5368.1	5685.9	5851.1
15°	4215.8	4242.4	4274.6	4346.0	4481.8	4638.6	4858.5	5177.7	5207.1	5601.9	5832.9
17.5°	4147.2	4159.8	4182.2	4248.0	4347.4	4501.4	4722.6	5057.3	5092.3	5543.1	5828.7
20°	4150.0	4162.6	4166.8	4203.2	4274.6	4407.6	4626.0	4962.1	5004.1	5491.3	5835.7
22.5°	4245.2	4246.6	4231.2	4218.6	4246.6	4357.2	4557.4	4890.7	4939.7	5468.9	5841.3
25°	4392.2	4417.4	4395.0	4336.2	4284.4	4337.6	4530.8	4851.5	4897.7	5436.7	5834.3
27.5°	4630.2	4634.4	4616.2	4536.4	4402.0	4362.8	4519.6	4822.1	4861.3	5412.9	5799.3
30°	4949.5	4936.9	4920.1	4831.9	4620.4	4459.4	4543.4	4795.4	4836.1	5377.9	5757.3
32.5°	5272.9	5312.1	5296.7	5193.1	4918.7	4647.0	4620.4	4792.6	4826.3	5351.3	5711.1
35°	5615.9	5634.1	5706.9	5653.7	5372.3	4950.9	4764.6	4836.1	4862.7	5352.7	5678.9
37.5°	5884.8	5933.8	6104.6	6150.8	5886.2	5352.7	4998.5	4959.3	4970.5	5421.3	5691.5
40°	6209.6	6293.6	6513.4	6702.4	6528.8	5875.0	5396.1	5187.5	5201.5	5586.5	5774.1
42.5°	6621.2	6680.0	6975.5	7231.7	7203.7	6565.2	5877.8	5561.3	5568.3	5915.6	6005.2
45°	7102.9	7186.9	7518.7	7903.7	7969.5	7346.5	6573.6	6127.0	6122.8	6426.6	6436.4
47.5°	7718.9	7770.7	8099.8	8519.8	8785.8	8328.0	7417.9	6939.1	6894.2	7171.5	7091.7
50°	8286.0	8367.2	8616.4	9075.7	9737.9	9477.5	8528.2	7991.9	7886.9	8146.0	8011.6
52.5°	8524.0	8609.4	8819.4	9389.3	10554.2	10964.4	9938.1	9247.9	9072.9	9271.7	9222.7
55°	8111.0	8221.6	8417.6	9110.7	10912.6	12679.6	11839.5	10699.8	10572.4	10487.0	10501.0
57.5°	7000.7	7105.7	7370.3	8134.8	10484.2	13924.3	14554.4	12566.2	12293.2	11899.7	11966.9
60°	5328.9	5394.7	5531.9	6379.0	9214.3	14247.7	17637.5	14925.4	14751.8	13306.8	13354.5
62.5°	3784.6	3858.8	3954.0	4376.8	6745.8	13336.2	20051.3	18219.9	17599.6	14764.4	14718.2
65°	3073.3	3022.9	3137.7	3335.1	3958.2	10335.8	20594.5	22792.7	21938.7	16684.0	16042.7
67.5°	2527.2	2474.0	2587.4	2938.9	3010.3	5999.6	18637.1	25761.0	25590.2	18771.6	17388.2
69°	2237.4	2209.4	2308.8	2709.3	2889.9	4260.6	16235.9	26174.1	26214.7	20002.3	17595.4
70°	2016.2	2027.4	2124.0	2593.0	2835.3	3512.9	13876.7	25604.2	25948.6	20616.9	17371.4
72.5°	1484.1	1507.9	1642.4	2147.8	2783.5	2980.9	8258.0	22364.3	22973.4	20653.3	15891.5
75°	1037.5	1026.3	1145.3	1617.2	2629.4	2954.3	4850.1	17295.8	17986.1	17851.7	13353.1
77.5°	679.1	697.3	792.5	1142.5	2212.2	2931.9	3161.5	12270.8	12718.8	11938.9	7898.1
80°	478.8	477.4	530.6	779.9	1641.0	2817.1	2588.8	7734.3	7620.9	4691.8	2342.4
82.5°	274.4	294.0	355.6	548.9	1097.7	2479.6	2381.6	3699.1	3377.1	1337.1	791.1
85°	152.6	159.6	211.4	331.8	641.3	1867.8	2079.2	1683.0	1587.7	558.7	340.2
87.5°	49.0	53.2	88.2	168.0	291.2	882.1	1177.5	777.1	716.9	201.6	137.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P453474
 CATALOG NUMBER: GALN-SA4C-730-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5838.5	5838.5	5838.5	5838.5	5838.5	5838.5	5838.5	5838.5	5838.5	5838.5	5838.5
2.5°	5846.9	5863.7	5818.9	5775.5	5736.3	5681.7	5632.7	5592.1	5564.1	5559.9	5545.9
5°	5866.5	5867.9	5782.5	5667.7	5555.7	5432.5	5305.1	5214.1	5128.7	5081.1	5057.3
7.5°	5880.6	5867.9	5713.9	5527.7	5312.1	5088.1	4864.1	4684.8	4546.2	4491.6	4512.6
10°	5875.0	5835.7	5610.3	5312.1	4998.5	4663.8	4341.8	4089.8	3858.8	3739.8	3742.6
12.5°	5844.1	5779.7	5456.3	5069.9	4609.2	4161.2	3668.3	3328.1	3060.7	2902.5	2853.5
15°	5817.5	5705.5	5275.7	4740.8	4168.2	3528.3	2927.7	2507.6	2283.6	2159.0	2157.6
17.5°	5789.5	5634.1	5078.3	4392.2	3661.3	2838.1	2208.0	1887.4	1782.4	1795.0	1774.0
20°	5760.1	5550.1	4872.5	4004.4	3043.9	2117.0	1653.6	1523.3	1552.7	1610.2	1618.6
22.5°	5726.5	5460.5	4651.2	3577.3	2394.2	1593.3	1341.3	1321.7	1397.3	1486.9	1499.5
25°	5674.7	5348.5	4372.6	3130.7	1846.8	1283.9	1174.7	1188.7	1262.9	1338.5	1346.9
27.5°	5601.9	5209.9	4091.2	2573.4	1387.5	1101.9	1073.9	1092.1	1128.5	1174.7	1185.9
30°	5503.9	5053.1	3767.8	2091.8	1111.7	1010.9	999.7	1009.5	1030.5	1050.1	1055.7
32.5°	5405.9	4901.9	3441.5	1601.8	991.3	950.7	939.5	939.5	939.5	942.3	943.7
35°	5314.9	4759.0	3091.5	1247.5	928.3	903.1	887.7	870.9	868.1	858.3	858.3
37.5°	5264.5	4628.8	2719.1	1044.5	882.1	863.9	842.9	814.9	799.5	800.9	798.1
40°	5274.3	4543.4	2380.2	929.7	844.3	824.7	792.5	760.3	750.5	750.5	747.7
42.5°	5384.9	4515.4	2055.4	869.5	807.9	785.5	744.9	715.5	709.9	708.5	711.3
45°	5639.7	4584.0	1764.2	830.3	777.1	743.5	702.9	676.3	670.7	670.7	669.3
47.5°	6136.8	4806.7	1555.5	805.1	754.7	711.3	669.3	642.7	632.9	630.1	630.1
50°	6909.6	5289.7	1400.1	782.7	726.7	681.9	638.5	607.7	592.3	590.9	589.5
52.5°	7983.5	6043.0	1339.9	765.9	695.9	651.1	603.5	574.1	554.5	550.3	547.5
55°	9239.5	7094.5	1422.5	753.3	663.7	616.1	567.1	536.3	518.0	509.6	508.2
57.5°	10694.2	8357.4	1736.2	736.5	634.3	578.3	530.6	499.8	480.2	470.4	467.6
60°	12000.5	9655.3	2283.6	726.7	609.1	537.7	488.6	460.6	442.4	432.6	431.2
62.5°	13435.7	10893.0	2937.5	753.3	597.9	498.4	449.4	424.2	408.8	399.0	399.0
65°	14968.8	12132.1	3370.1	842.9	614.7	467.6	407.4	386.4	372.4	365.4	364.0
67.5°	16002.1	12560.6	2776.5	935.3	656.7	434.0	366.8	350.0	341.6	334.6	334.6
69°	15890.1	12018.7	2048.4	959.1	669.3	417.2	344.4	331.8	320.6	317.8	315.0
70°	15535.9	11401.3	1716.6	943.7	659.5	401.8	330.4	315.0	305.2	302.4	301.0
72.5°	13837.5	9887.7	1278.3	820.5	561.5	348.6	292.6	278.6	270.2	266.0	266.0
75°	11496.5	8081.6	998.3	652.5	439.6	294.0	250.6	239.4	232.4	229.6	228.2
77.5°	6443.4	4512.6	716.9	511.0	333.2	238.0	210.0	200.2	193.2	190.4	190.4
80°	1795.0	1289.5	421.4	337.4	226.8	180.6	166.6	159.6	149.8	142.8	147.0
82.5°	676.3	558.7	240.8	203.0	144.2	120.4	116.2	110.6	106.4	96.6	96.6
85°	329.0	271.6	154.0	107.8	79.8	63.0	60.2	57.4	54.6	47.6	49.0
87.5°	113.4	120.4	67.2	39.2	23.8	15.4	12.6	7.0	7.0	7.0	7.0
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)