

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: P455316

Luminaire Tested: **GALN-SA6C-727-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6C-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34575 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

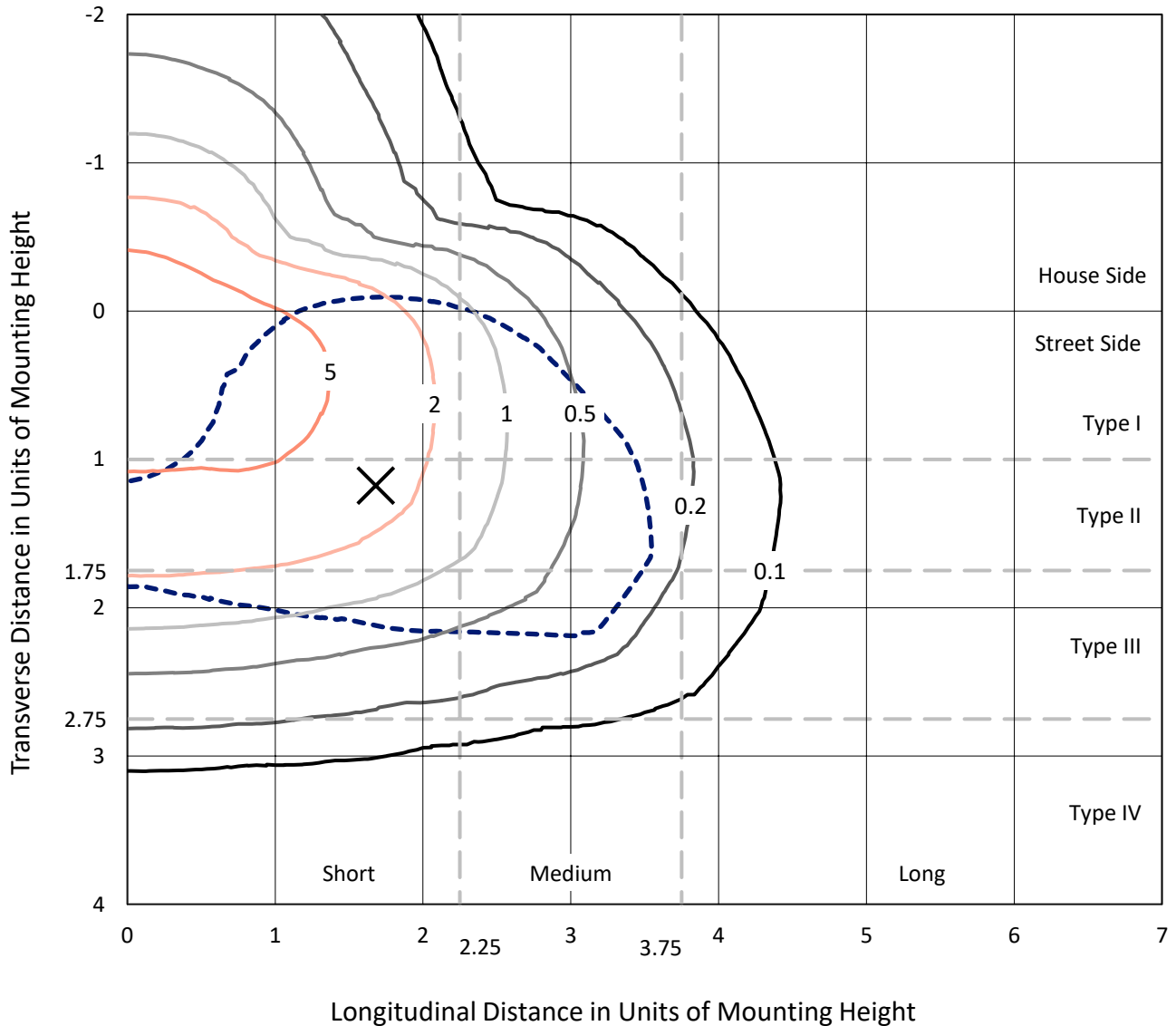
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455316
 CATALOG NUMBER: GALN-SA6C-727-U-T3

Iso-Footcandle Lines of Horizontal Illumination

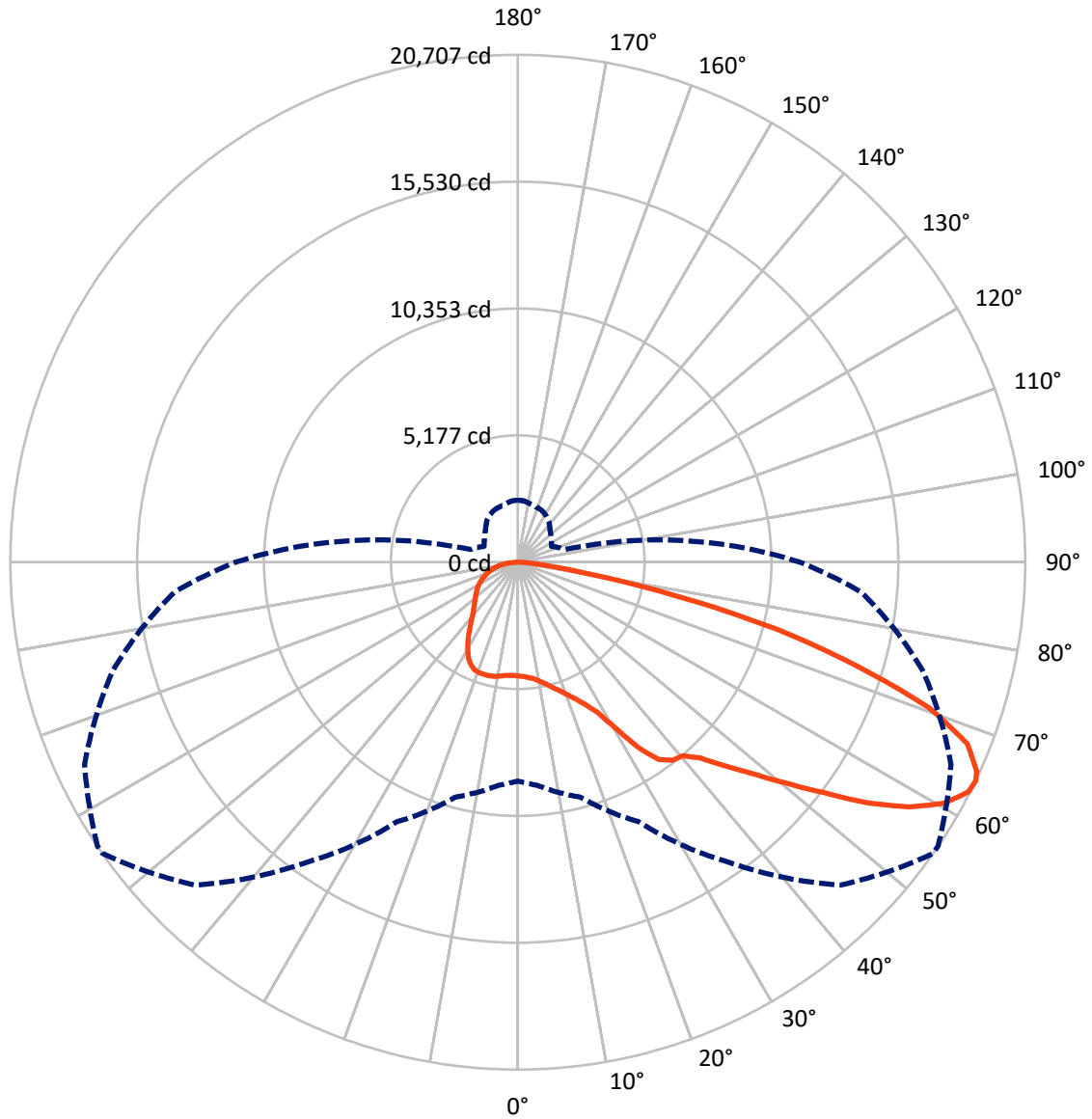
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Short - N/A

REPORT NUMBER: P455316
CATALOG NUMBER: GALN-SA6C-727-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P455316

CATALOG NUMBER: GALN-SA6C-727-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8399.0	0.0	8399.0
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	26176.0	0.0	26176.0
	% Fixture	75.7	0.0	75.7
Total	Lumens	34575.0	0.0	34575.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.2	1.3
10°-20°	1423.8	4.1
20°-30°	2534.8	7.3
30°-40°	3900.0	11.3
40°-50°	5528.6	16.0
50°-60°	8002.5	23.1
60°-70°	8281.7	24.0
70°-80°	3878.3	11.2
80°-90°	574.1	1.7
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°	34575.0	100.0
0°-180°	34575.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455316

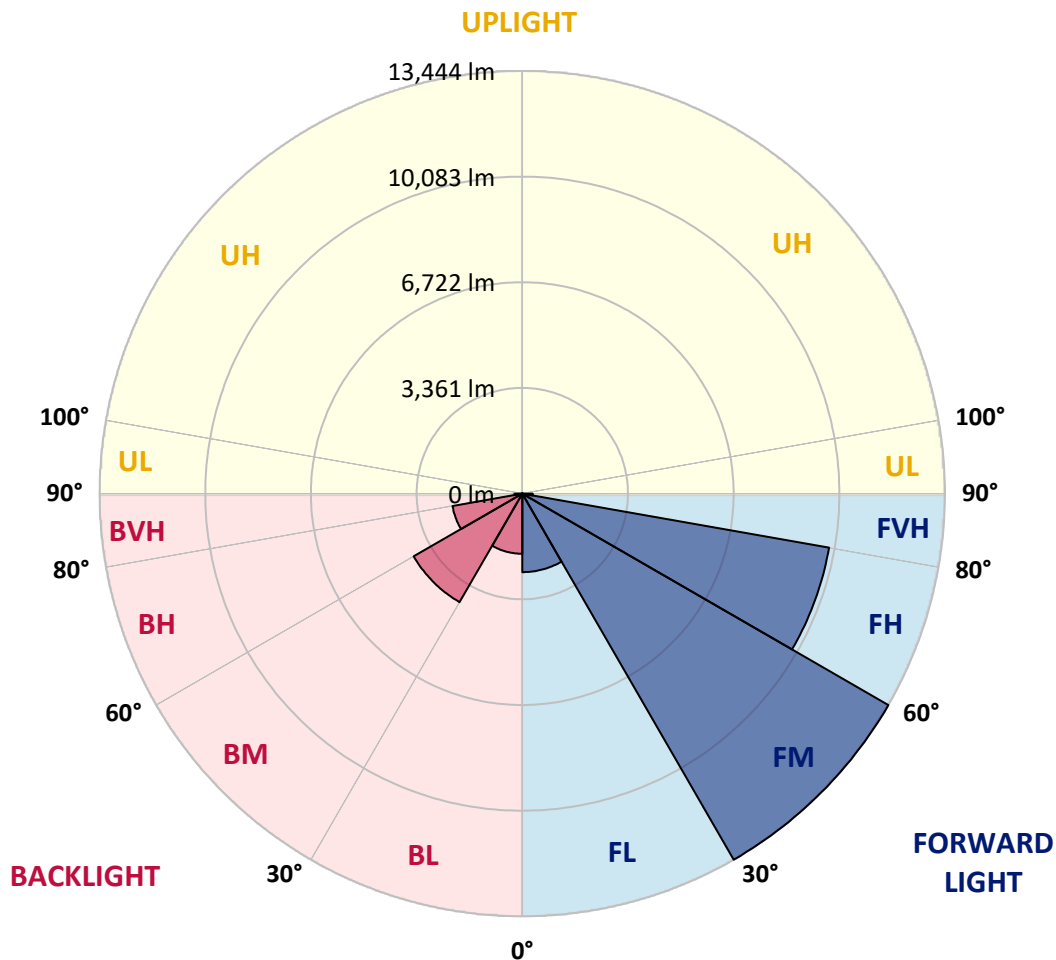
CATALOG NUMBER: GALN-SA6C-727-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2496.9	7.2			
FM	(30°-60°)	13443.7	38.9			
FH	(60°-80°)	9906.7	28.7			G4/12000
FVH	(80°-90°)	328.7	1.0			G3/500
BL	(0°-30°)	1913.0	5.5	B3/2500		
BM	(30°-60°)	3987.3	11.5	B3/5000		
BH	(60°-80°)	2253.3	6.5	B3/2500		G3/2500
BVH	(80°-90°)	245.4	0.7			G3/500
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 Short





REPORT NUMBER: P455316

CATALOG NUMBER: GALN-SA6C-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4638.9	4638.9	4638.9	4638.9	4638.9	4638.9	4638.9	4638.9	4638.9	4638.9	4638.9
2.5°	4691.0	4689.0	4694.8	4689.0	4692.9	4679.4	4673.6	4677.5	4671.7	4662.0	4644.7
5°	4748.8	4746.8	4748.8	4741.1	4744.9	4737.2	4723.7	4727.6	4717.9	4696.7	4671.7
7.5°	4847.1	4839.4	4839.4	4837.4	4829.7	4818.2	4808.5	4804.7	4795.0	4768.0	4729.5
10°	4974.3	4974.3	4976.2	4960.8	4970.4	4949.2	4939.6	4937.6	4904.9	4870.2	4816.2
12.5°	5141.9	5151.6	5145.8	5138.1	5134.2	5126.5	5093.8	5101.5	5064.8	5005.1	4939.6
15°	5350.1	5365.5	5355.9	5352.0	5342.4	5313.5	5300.0	5294.2	5246.0	5159.3	5072.6
17.5°	5625.7	5606.4	5598.7	5589.1	5548.6	5527.4	5504.3	5500.4	5458.0	5355.9	5221.0
20°	5866.6	5893.6	5878.2	5868.5	5828.0	5787.6	5770.2	5764.4	5727.8	5616.0	5400.2
22.5°	6153.7	6159.5	6165.3	6142.2	6122.9	6092.1	6061.2	6051.6	6038.1	5922.5	5658.4
25°	6460.2	6483.3	6464.0	6440.9	6417.8	6415.9	6444.8	6440.9	6435.1	6323.3	6001.5
27.5°	6959.3	6980.5	6986.3	6961.3	6872.6	6880.3	6945.9	6967.1	7055.7	6870.7	6442.8
30°	7240.7	7261.9	7310.1	7404.5	7545.2	7668.6	7826.6	7874.8	7959.6	7610.8	6967.1
32.5°	7414.2	7421.9	7508.6	7684.0	8106.1	8566.7	8996.5	9013.8	9067.8	8578.2	7446.9
35°	7687.9	7693.6	7763.0	7955.7	8451.0	9218.1	9883.0	9904.2	9859.9	8878.9	7670.5
37.5°	8025.1	8040.5	8084.9	8244.8	8836.5	9763.5	10251.1	10235.7	9842.5	9117.9	8065.6
40°	8516.6	8516.6	8464.5	8680.4	9243.2	10075.7	10380.2	10353.3	10249.2	9809.8	8666.9
42.5°	8950.2	8942.5	9065.8	9212.3	9751.9	10557.5	10921.8	10966.1	11137.7	10679.0	9351.1
45°	9514.9	9549.6	9619.0	9884.9	10617.3	11380.5	11850.7	11893.1	12136.0	11702.3	10150.9
47.5°	10085.4	10096.9	10314.7	10669.3	11688.8	12496.4	12881.8	12951.2	13172.8	12899.2	11012.4
50°	10490.1	10599.9	10948.8	11507.7	12793.2	13857.0	14157.7	14240.5	14631.8	14202.0	12016.5
52.5°	10917.9	11025.9	11451.8	12303.6	14061.3	15248.5	15618.5	15674.4	16081.1	15520.2	13043.7
55°	11284.1	11384.3	11868.1	13009.0	15071.2	16668.9	17339.6	17274.1	17468.7	16535.9	13835.8
57.5°	11343.9	11424.8	12033.8	13460.0	15830.5	17886.9	18848.6	18887.2	18661.7	17295.3	14489.2
60°	10881.3	11047.1	11746.7	13411.8	16171.7	18734.9	19974.2	20001.1	19361.3	17684.6	14749.3
62.5°	10062.2	10044.9	10891.0	12637.1	15693.7	18927.6	20637.1	20608.2	19635.0	17497.6	14496.9
64°	8930.9	9139.1	9929.3	11685.0	14922.8	18630.8	20706.5	20691.1	19503.9	17108.3	14067.1
65°	8241.0	8229.4	9010.0	10906.4	14155.7	18183.7	20583.2	20562.0	19230.2	16759.5	13733.7
67.5°	5949.5	5976.4	6747.3	8416.4	11507.7	16435.7	19779.5	19700.5	18151.0	15603.1	12465.5
70°	3604.0	3619.4	4224.6	5583.3	8260.2	13286.5	17829.1	17833.0	16499.3	13876.3	10609.6
72.5°	1898.4	1938.8	2181.7	3170.3	5016.7	9322.2	14464.1	14807.2	14165.4	11843.0	8381.7
75°	1056.1	1061.9	1233.4	1563.0	2559.4	5217.1	10871.7	10970.0	11214.7	9532.2	6198.1
77.5°	805.6	817.2	871.1	1009.9	1393.4	2418.7	6579.7	7073.1	7903.7	6720.4	3536.5
80°	653.3	664.9	711.2	794.0	927.0	1146.7	3056.6	3322.6	4230.3	2983.4	1379.9
82.5°	508.8	501.1	560.8	614.8	674.5	678.4	1254.6	1387.6	1723.0	1283.6	597.5
85°	377.7	377.7	425.9	414.4	435.6	397.0	553.1	610.9	690.0	545.4	277.5
87.5°	150.3	165.7	279.5	250.5	194.7	156.1	204.3	215.9	239.0	213.9	115.6
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: P455316

CATALOG NUMBER: GALN-SA6C-727-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4638.9	4638.9	4638.9	4638.9	4638.9	4638.9	4638.9	4638.9	4638.9	4638.9	4638.9
2.5°	4646.6	4652.4	4638.9	4629.3	4625.4	4619.6	4613.9	4615.8	4623.5	4631.2	4629.3
5°	4669.8	4671.7	4648.6	4637.0	4629.3	4621.6	4621.6	4627.4	4642.8	4654.3	4654.3
7.5°	4727.6	4727.6	4694.8	4673.6	4662.0	4648.6	4644.7	4646.6	4658.2	4673.6	4675.5
10°	4818.2	4810.4	4768.0	4735.3	4714.1	4681.3	4652.4	4637.0	4642.8	4652.4	4652.4
12.5°	4928.0	4906.8	4852.8	4808.5	4756.5	4694.8	4635.1	4604.2	4602.3	4611.9	4608.1
15°	5045.6	5022.4	4947.3	4866.3	4775.8	4685.2	4613.9	4569.5	4534.8	4525.2	4546.4
17.5°	5182.4	5134.2	5030.2	4918.4	4783.5	4665.9	4554.1	4463.5	4401.9	4384.5	4390.3
20°	5348.2	5284.6	5143.9	4968.5	4777.7	4596.5	4423.1	4301.7	4201.4	4170.6	4174.5
22.5°	5577.5	5467.6	5261.4	4993.5	4729.5	4465.5	4224.6	4066.5	3945.1	3896.9	3925.8
25°	5837.7	5718.2	5373.2	4987.8	4604.2	4255.4	3989.4	3783.2	3673.4	3602.1	3617.5
27.5°	6196.1	5984.2	5492.7	4935.7	4425.0	3999.1	3690.7	3496.1	3395.8	3359.2	3376.6
30°	6654.8	6329.1	5621.8	4795.0	4141.7	3675.3	3390.1	3262.9	3203.1	3156.9	3172.3
32.5°	6986.3	6572.0	5650.7	4558.0	3835.3	3380.4	3185.8	3091.3	3025.8	2981.5	2991.1
35°	7223.4	6778.2	5637.2	4267.0	3515.3	3137.6	3023.9	2946.8	2840.8	2744.4	2727.1
37.5°	7541.4	7036.4	5539.0	3949.0	3199.3	2973.8	2892.8	2750.2	2598.0	2468.8	2463.0
40°	8029.0	7339.0	5328.9	3575.1	2929.4	2852.3	2754.1	2569.0	2405.2	2301.2	2293.4
42.5°	8532.0	7618.5	5043.6	3181.9	2707.8	2725.1	2605.7	2422.6	2322.4	2254.9	2247.2
45°	9146.8	7921.0	4735.3	2840.8	2544.0	2605.7	2476.5	2370.5	2310.8	2266.5	2254.9
47.5°	9811.7	8231.3	4388.4	2534.4	2405.2	2495.8	2422.6	2374.4	2341.6	2310.8	2297.3
50°	10528.6	8578.2	4062.7	2287.7	2280.0	2382.1	2416.8	2399.4	2380.2	2370.5	2359.0
52.5°	11315.0	8932.9	3789.0	2114.2	2170.1	2301.2	2418.7	2432.2	2432.2	2426.4	2418.7
55°	11846.9	9179.6	3511.5	1973.5	2058.3	2235.6	2414.9	2466.9	2486.2	2478.5	2470.8
57.5°	12240.0	9314.5	3162.6	1852.1	1963.9	2172.0	2393.7	2470.8	2490.0	2499.7	2495.8
60°	12321.0	9189.2	2705.9	1724.9	1861.7	2079.5	2316.6	2412.9	2438.0	2497.7	2503.5
62.5°	11956.7	8803.7	2251.0	1599.6	1736.5	1938.8	2212.5	2347.4	2397.5	2490.0	2499.7
64°	11509.6	8372.0	1998.6	1520.6	1655.5	1859.8	2160.5	2330.1	2395.6	2518.9	2526.6
65°	11182.0	8057.9	1840.5	1470.5	1603.5	1807.8	2131.6	2335.8	2412.9	2563.3	2574.8
67.5°	9975.5	6976.7	1522.5	1352.9	1480.1	1719.1	2137.3	2384.0	2409.1	2580.6	2578.7
70°	8254.5	5554.4	1275.8	1245.0	1360.6	1647.8	2114.2	2306.9	2308.9	2422.6	2395.6
72.5°	6180.7	4105.1	1106.2	1133.2	1227.7	1478.2	1996.6	2202.9	2170.1	2185.5	2158.5
75°	4245.8	2715.5	952.1	1013.7	1088.9	1306.7	1830.9	2000.5	1948.5	1929.2	1909.9
77.5°	2266.5	1501.3	792.1	896.2	946.3	1129.4	1597.7	1761.5	1707.6	1632.4	1607.3
80°	917.4	707.3	637.9	742.0	770.9	909.7	1329.8	1432.0	1391.5	1260.4	1218.0
82.5°	460.6	424.0	501.1	584.0	585.9	649.5	988.7	1085.0	994.5	834.5	797.9
85°	240.9	248.6	345.0	410.5	362.3	350.8	593.6	657.2	603.2	524.2	472.2
87.5°	86.7	100.2	181.2	179.2	127.2	67.5	131.1	63.6	34.7	21.2	27.0
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)