

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: P456474

Luminaire Tested: **GALN-SA7D-727-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7D-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45924 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

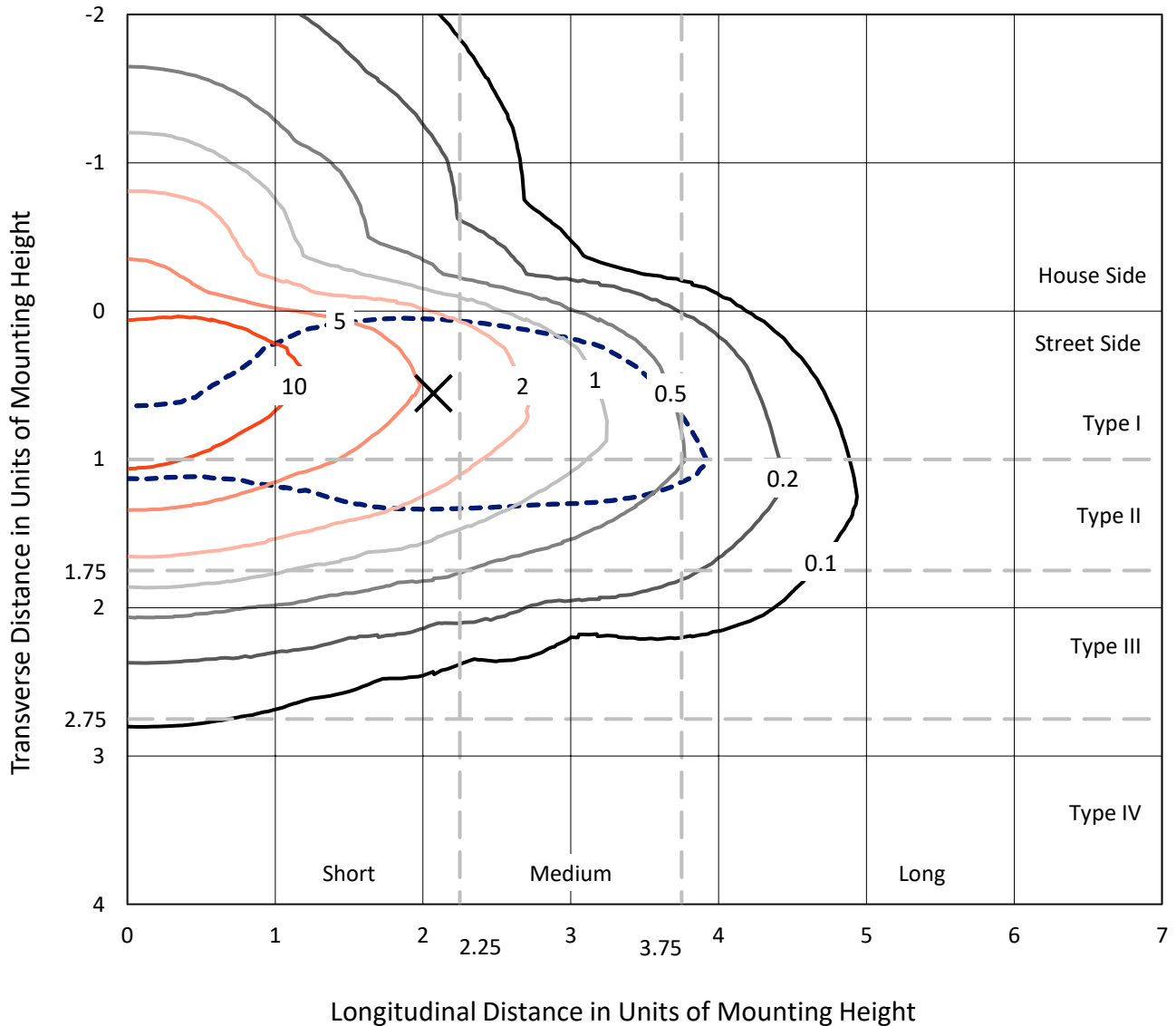
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456474
 CATALOG NUMBER: GALN-SA7D-727-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

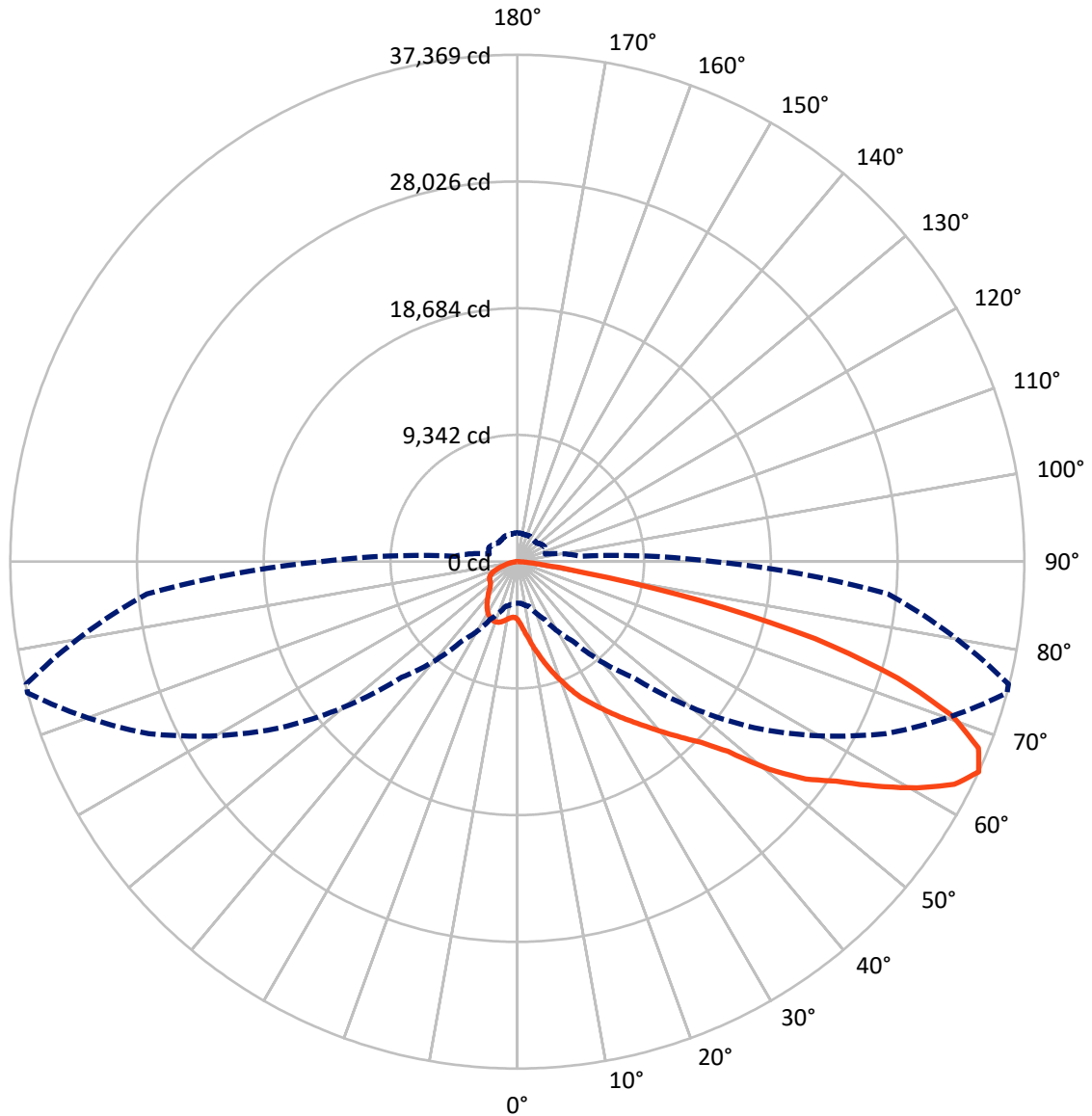
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 fc
 Type II - Short - N/A

REPORT NUMBER: P456474
CATALOG NUMBER: GALN-SA7D-727-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P456474

CATALOG NUMBER: GALN-SA7D-727-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7720.4	0.0	7720.4
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	38203.6	0.0	38203.6
	% Fixture	83.2	0.0	83.2
Total	Lumens	45924.0	0.0	45924.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.4	1.1
10°-20°	2030.6	4.4
20°-30°	3922.4	8.5
30°-40°	6371.1	13.9
40°-50°	8764.0	19.1
50°-60°	10347.4	22.5
60°-70°	9066.0	19.7
70°-80°	4328.2	9.4
80°-90°	575.9	1.3
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°	45924.0	100.0
0°-180°	45924.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456474

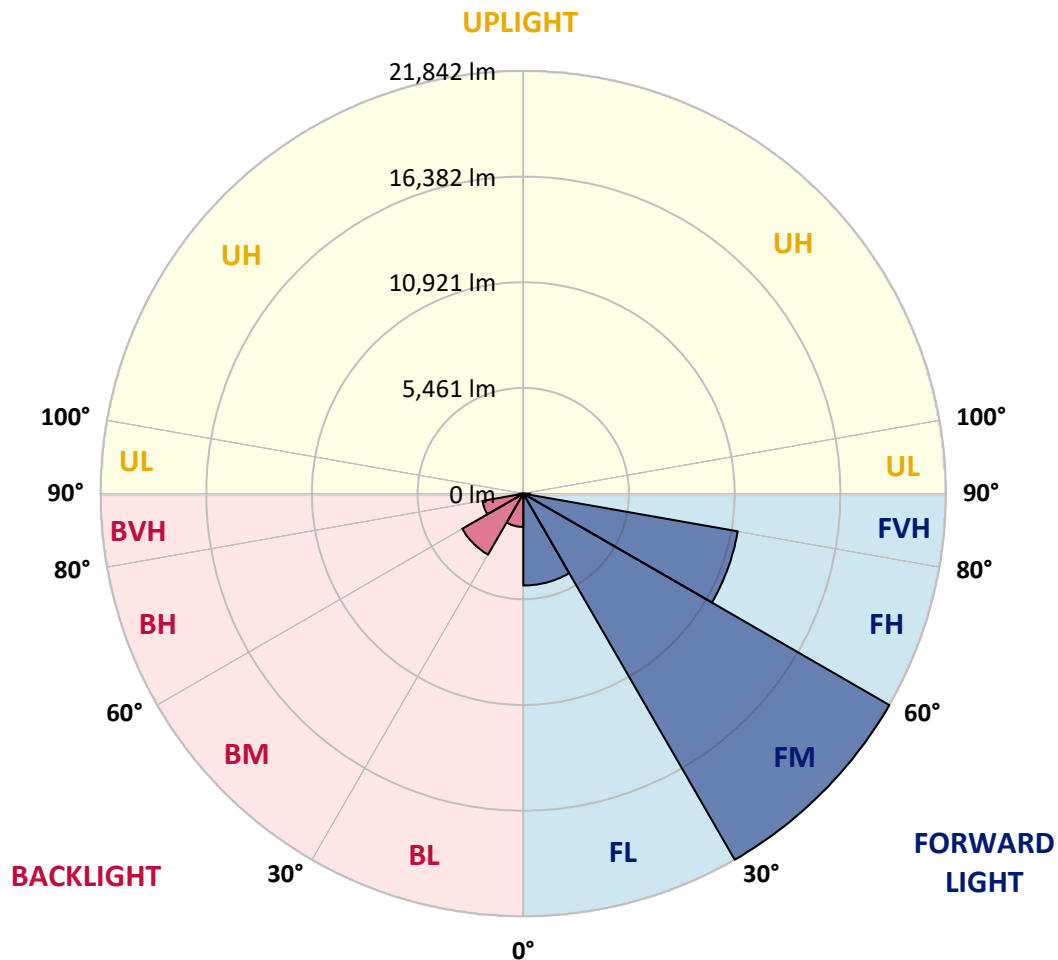
CATALOG NUMBER: GALN-SA7D-727-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4747.8	10.3			
FM	(30°-60°)	21842.4	47.6			
FH	(60°-80°)	11253.4	24.5			G4/12000
FVH	(80°-90°)	359.9	0.8			G3/500
BL	(0°-30°)	1723.6	3.8	B3/2500		
BM	(30°-60°)	3640.1	7.9	B3/5000		
BH	(60°-80°)	2140.7	4.7	B3/2500		G3/2500
BVH	(80°-90°)	216.0	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





REPORT NUMBER: P456474

CATALOG NUMBER: GALN-SA7D-727-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4266.9	4266.9	4266.9	4266.9	4266.9	4266.9	4266.9	4266.9	4266.9	4266.9	4266.9
2.5°	5669.3	5631.9	5592.1	5482.5	5365.4	5233.4	5044.1	4862.2	4620.6	4613.2	4433.8
5°	7241.1	7216.2	7039.3	6937.2	6665.7	6304.5	5998.1	5522.3	5081.4	5029.1	4680.4
7.5°	8685.8	8588.6	8521.4	8337.1	8068.0	7604.7	7011.9	6369.2	5631.9	5562.2	4984.3
10°	9774.3	9764.3	9729.5	9570.1	9368.3	8907.5	8249.9	7328.2	6329.4	6192.4	5353.0
12.5°	10588.8	10596.3	10591.3	10588.8	10444.4	10053.3	9340.9	8369.4	7034.3	6937.2	5778.9
15°	11124.4	11199.1	11229.0	11353.5	11366.0	11104.5	10491.7	9375.8	7828.9	7684.4	6237.2
17.5°	11478.1	11515.5	11654.9	11866.7	12038.5	11991.2	11445.7	10307.4	8640.9	8399.3	6713.0
20°	11816.9	11881.6	11988.7	12277.7	12581.6	12721.0	12337.5	11261.4	9445.5	9291.1	7238.6
22.5°	12521.8	12613.9	12651.3	12798.3	13057.3	13303.9	13129.6	12175.5	10327.3	10118.1	7796.5
25°	13714.9	13812.1	13707.4	13672.6	13757.3	13879.3	13842.0	13037.4	11159.3	10860.3	8324.6
27.5°	15269.2	15281.7	15077.4	14883.2	14673.9	14611.6	14497.1	13802.1	11881.6	11632.5	8855.2
30°	16938.2	16878.4	16539.6	16188.4	15834.7	15486.0	15157.2	14539.4	12686.2	12399.7	9375.8
32.5°	18487.5	18455.1	18079.0	17533.5	16935.7	16606.9	15941.8	15284.2	13548.0	13271.5	9911.3
35°	19648.3	19695.6	19282.1	18686.8	18034.1	17742.7	16903.3	16066.3	14439.8	14138.4	10494.2
37.5°	20472.7	20447.8	20081.7	19566.1	18993.1	18739.1	18026.7	16920.7	15398.8	15109.8	11131.9
40°	20766.7	20751.7	20480.2	20104.1	19740.4	19650.7	19202.4	17842.3	16497.3	16158.5	11899.1
42.5°	20579.9	20612.2	20432.9	20330.8	20263.5	20328.3	20370.6	19050.4	17695.4	17384.0	12731.0
45°	20006.9	19989.5	19964.6	20131.5	20510.1	20936.1	21526.4	20191.3	18998.1	18749.0	13846.9
47.5°	18983.2	19107.7	19170.0	19630.8	20457.8	21466.6	22856.5	21720.7	20888.7	20672.0	15548.2
50°	17550.9	17650.6	18019.2	18838.7	20071.7	21665.9	24156.8	24221.6	24042.2	23636.2	17396.5
52.5°	15314.1	15468.5	16228.2	17730.3	19279.6	21583.7	24943.9	26366.2	26602.9	26299.0	19217.3
55°	12810.7	13027.4	13829.5	15799.8	18188.6	21135.3	25486.9	27609.2	28553.2	28271.8	20970.9
57.5°	10359.7	10588.8	11413.3	13321.4	16285.5	20143.9	25843.1	28994.1	31208.5	30842.4	23153.0
60°	7764.1	8003.3	8710.7	10676.0	13575.4	18206.0	25601.5	30194.7	33861.4	33704.4	25337.5
62.5°	5009.2	5273.2	5888.5	7515.1	10434.4	15558.2	24308.7	30857.3	36158.0	35968.7	26931.7
65°	3051.4	3081.2	3420.0	4665.5	7141.4	12046.0	21352.0	29978.0	37368.6	37311.3	27417.4
67.5°	1972.8	2020.1	2174.6	2794.8	4281.9	8366.9	17072.7	27076.1	36661.1	36641.2	26413.6
70°	1666.4	1681.4	1751.1	1885.6	2488.4	5074.0	11988.7	22450.5	33973.4	33973.4	23999.9
72.5°	1489.6	1509.5	1534.4	1576.7	1776.0	2874.5	7153.9	17476.2	29332.9	29527.2	20427.9
75°	1352.6	1347.6	1362.5	1370.0	1514.5	1878.1	3699.0	12925.3	22692.1	22303.6	14793.5
77.5°	1158.3	1165.7	1158.3	1190.7	1337.6	1429.8	1878.1	8673.3	13752.3	13249.1	7425.4
80°	951.5	964.0	976.4	996.4	1143.3	1086.0	1128.4	3953.1	5086.4	4979.3	2294.1
82.5°	714.9	732.3	752.3	799.6	899.2	717.4	712.4	1688.8	1835.8	1681.4	844.4
85°	288.9	341.3	515.6	562.9	565.4	393.6	438.4	704.9	749.8	732.3	331.3
87.5°	67.3	79.7	166.9	251.6	231.7	147.0	161.9	229.2	261.5	241.6	112.1
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: P456474
 CATALOG NUMBER: GALN-SA7D-727-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4266.9	4266.9	4266.9	4266.9	4266.9	4266.9	4266.9	4266.9	4266.9	4266.9	4266.9
2.5°	4351.6	4264.4	4115.0	4000.4	3918.2	3846.0	3801.1	3773.7	3763.8	3761.3	3763.8
5°	4498.6	4344.1	4107.5	3958.0	3875.8	3828.5	3801.1	3798.6	3801.1	3803.6	3796.1
7.5°	4700.3	4478.6	4169.8	4030.3	3968.0	3933.1	3920.7	3915.7	3918.2	3915.7	3915.7
10°	4969.4	4665.5	4291.8	4147.4	4095.0	4055.2	4035.3	4022.8	4012.8	4002.9	3997.9
12.5°	5265.8	4872.2	4423.8	4284.4	4209.6	4147.4	4102.5	4070.1	4047.7	4025.3	4020.3
15°	5597.1	5091.4	4570.8	4376.5	4269.4	4177.2	4100.0	4047.7	4007.9	3975.5	3973.0
17.5°	5913.4	5298.2	4670.4	4418.9	4261.9	4132.4	4030.3	3958.0	3908.2	3865.9	3860.9
20°	6252.2	5494.9	4715.3	4391.5	4187.2	4030.3	3895.8	3808.6	3751.3	3704.0	3696.5
22.5°	6593.4	5661.8	4710.3	4304.3	4057.7	3873.4	3731.4	3639.2	3572.0	3524.6	3507.2
25°	6919.7	5796.3	4648.0	4164.8	3878.3	3686.5	3542.1	3457.4	3397.6	3340.3	3340.3
27.5°	7213.7	5876.0	4531.0	3995.4	3694.0	3492.2	3377.7	3300.4	3245.6	3208.3	3185.9
30°	7502.6	5913.4	4371.5	3781.2	3499.7	3327.8	3235.7	3190.8	3141.0	3098.7	3093.7
32.5°	7761.7	5905.9	4172.3	3572.0	3315.4	3193.3	3156.0	3121.1	3068.8	3009.0	2994.1
35°	8013.2	5856.1	3935.6	3342.8	3161.0	3113.6	3123.6	3073.8	2979.1	2904.4	2891.9
37.5°	8287.2	5766.4	3676.6	3156.0	3031.4	3076.3	3101.2	2991.6	2837.1	2720.1	2692.7
40°	8603.6	5664.3	3407.6	2969.2	2929.3	3041.4	3041.4	2839.6	2627.9	2555.7	2535.7
42.5°	8974.7	5579.6	3183.4	2812.2	2844.6	2956.7	2944.2	2637.9	2550.7	2513.3	2503.4
45°	9562.6	5549.7	2951.7	2675.2	2774.9	2857.1	2754.9	2568.1	2518.3	2488.4	2478.5
47.5°	10491.7	5584.6	2747.5	2573.1	2695.2	2757.4	2543.2	2520.8	2485.9	2443.6	2438.6
50°	11353.5	5552.2	2603.0	2515.8	2625.4	2637.9	2456.0	2463.5	2443.6	2396.3	2386.3
52.5°	12058.5	5450.1	2510.8	2485.9	2565.6	2428.6	2373.8	2401.2	2393.8	2334.0	2324.0
55°	12833.1	5387.8	2466.0	2485.9	2525.8	2246.8	2296.6	2336.5	2326.5	2284.2	2281.7
57.5°	13772.2	5400.3	2433.6	2493.4	2485.9	2154.6	2219.4	2266.7	2264.2	2251.8	2251.8
60°	14733.7	5405.3	2383.8	2490.9	2438.6	2082.4	2139.7	2206.9	2211.9	2219.4	2219.4
62.5°	15052.5	5188.6	2286.7	2446.1	2334.0	2012.7	2065.0	2157.1	2152.1	2172.1	2174.6
65°	14457.2	4588.2	2142.2	2343.9	2199.5	1962.8	2007.7	2092.4	2065.0	2117.3	2127.2
67.5°	13159.4	3796.1	1918.0	2159.6	2050.0	1910.5	1970.3	2002.7	1952.9	2055.0	2057.5
70°	11373.5	2964.2	1634.0	1898.1	1880.6	1855.7	1940.4	1890.6	1820.9	1945.4	1920.5
72.5°	9510.3	2264.2	1305.2	1551.8	1654.0	1773.5	1888.1	1746.1	1649.0	1686.3	1641.5
75°	7143.9	1673.9	1048.7	1215.6	1377.5	1656.5	1840.8	1571.8	1422.3	1387.4	1377.5
77.5°	3641.7	1093.5	784.6	909.2	1033.7	1497.0	1776.0	1367.5	1178.2	1123.4	1098.5
80°	1300.3	680.0	553.0	627.7	697.5	1287.8	1551.8	1130.9	914.2	904.2	914.2
82.5°	602.8	438.4	371.1	411.0	413.5	859.4	1183.2	844.4	695.0	1056.1	891.7
85°	259.1	219.2	209.2	204.3	189.3	383.6	665.1	453.3	707.4	316.3	291.4
87.5°	77.2	87.2	77.2	57.3	42.3	42.3	67.3	24.9	17.4	12.5	12.5
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)