

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: P454841

Luminaire Tested: **GALN-SA6A-727-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454841
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 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: 22199 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

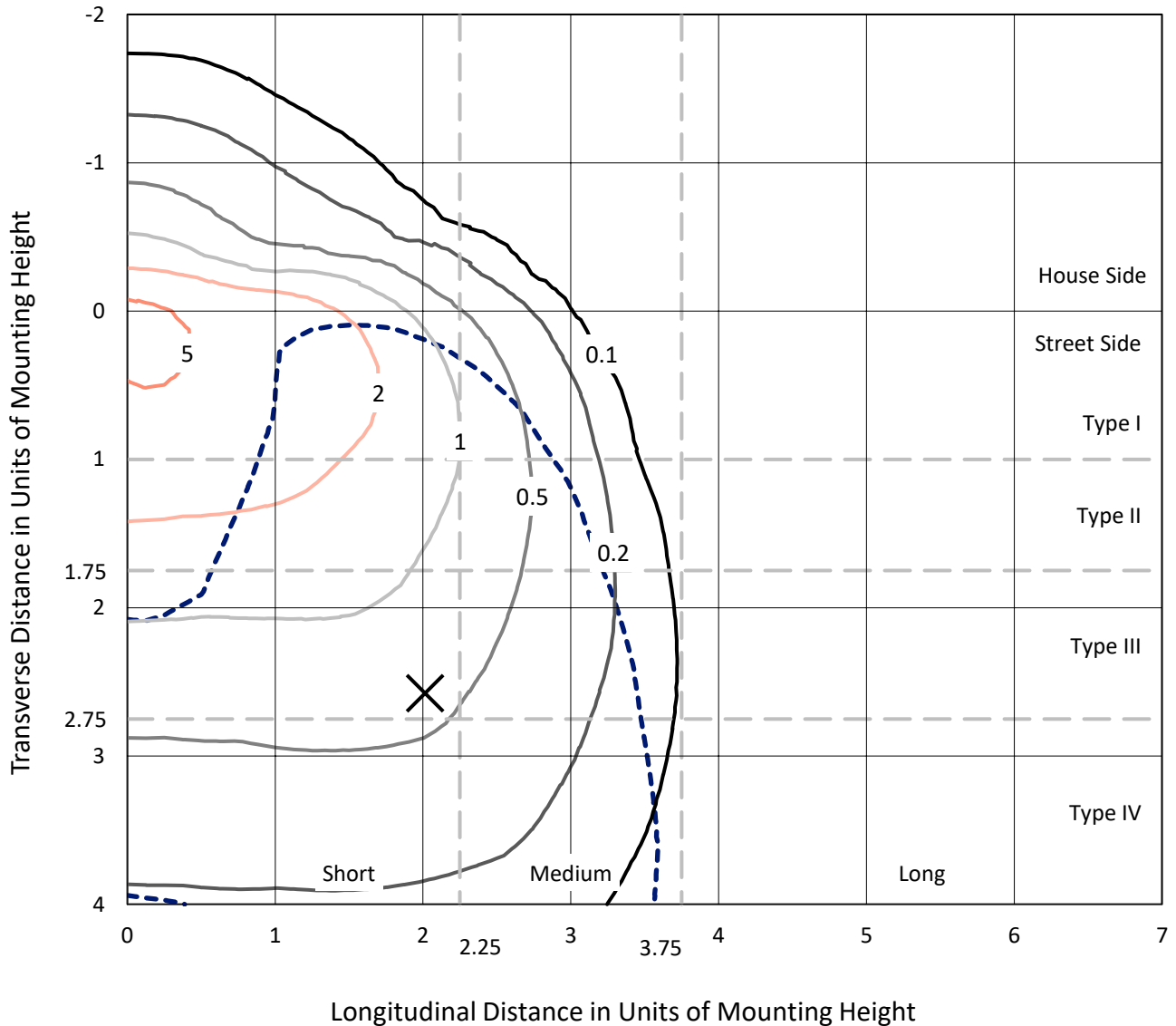
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454841
 CATALOG NUMBER: GALN-SA6A-727-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

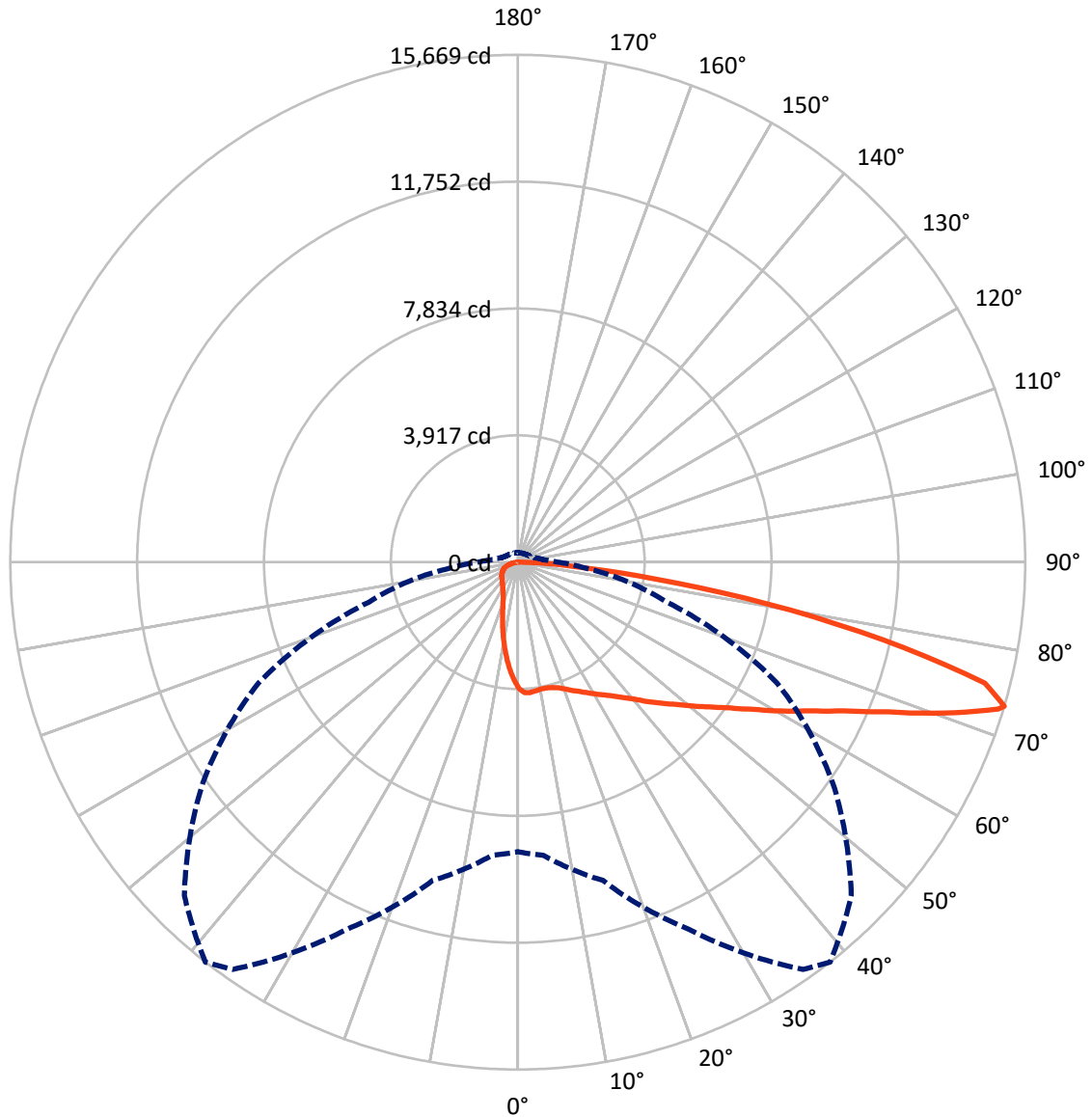
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P454841
CATALOG NUMBER: GALN-SA6A-727-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P454841

CATALOG NUMBER: GALN-SA6A-727-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2984.2	0.0	2984.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	19214.8	0.0	19214.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	22199.0	0.0	22199.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.4	1.5
10°-20°	873.0	3.9
20°-30°	1359.4	6.1
30°-40°	1993.9	9.0
40°-50°	2957.7	13.3
50°-60°	4190.5	18.9
60°-70°	5315.7	23.9
70°-80°	4425.0	19.9
80°-90°	743.5	3.3
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°	22199.0	100.0
0°-180°	22199.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454841

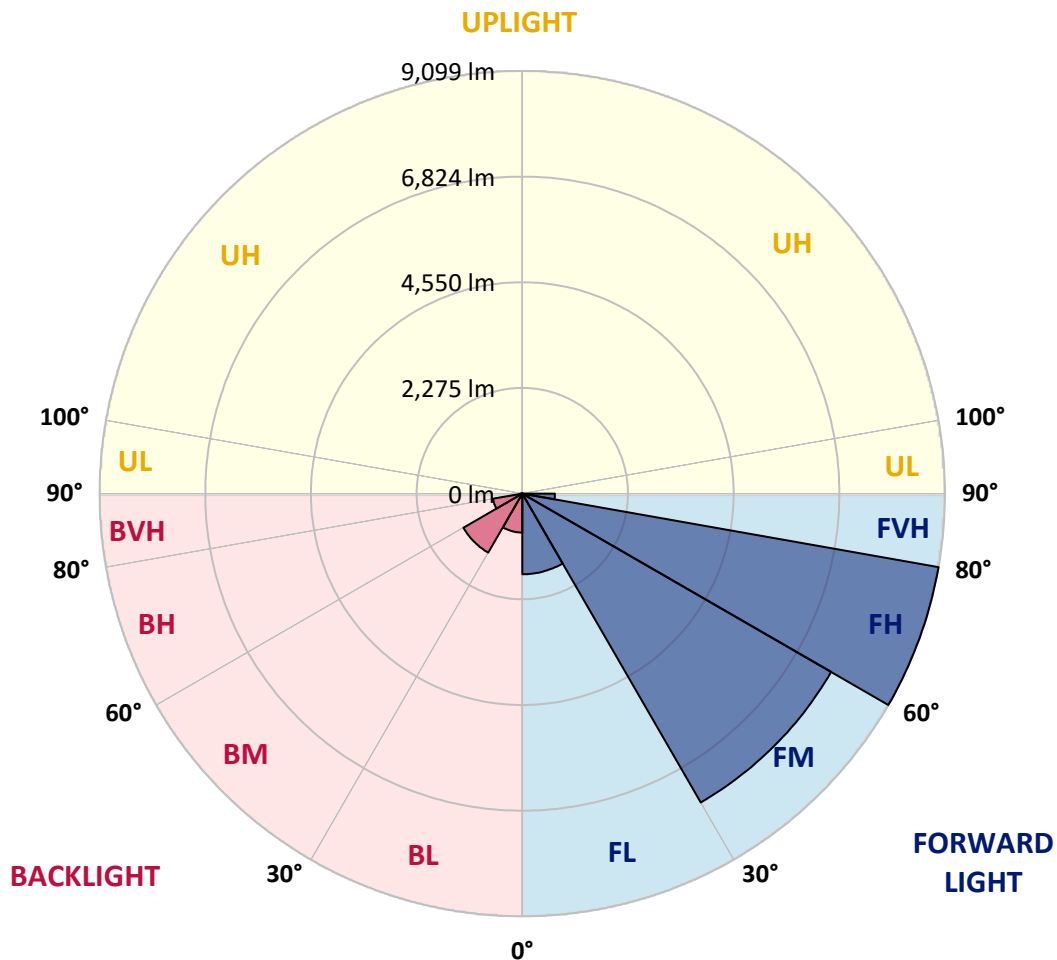
CATALOG NUMBER: GALN-SA6A-727-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1735.4	7.8			
FM	(30°-60°)	7677.0	34.6			
FH	(60°-80°)	9099.3	41.0			G4/12000
FVH	(80°-90°)	703.1	3.2			G4/750
BL	(0°-30°)	837.4	3.8	B2/1000		
BM	(30°-60°)	1465.1	6.6	B2/2500		
BH	(60°-80°)	641.4	2.9	B2/1000		G2/1000
BVH	(80°-90°)	40.3	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-G4

Type IV Short





REPORT NUMBER: P454841

CATALOG NUMBER: GALN-SA6A-727-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3900.0	3900.0	3900.0	3900.0	3900.0	3900.0	3900.0	3900.0	3900.0	3900.0	3900.0
2.5°	4056.7	4076.7	4066.7	4052.9	4044.2	4035.4	4022.8	3986.5	3957.7	3926.3	3877.4
5°	4086.8	4099.3	4090.5	4073.0	4052.9	4044.2	4020.3	3972.7	3926.3	3873.7	3801.0
7.5°	4069.2	4074.2	4064.2	4042.9	4025.3	4009.1	3981.5	3928.8	3872.4	3808.5	3713.2
10°	4006.5	4025.3	4025.3	4007.8	3990.2	3981.5	3953.9	3903.7	3852.4	3779.6	3666.8
12.5°	3955.1	3975.2	3991.5	3986.5	3985.2	3985.2	3963.9	3926.3	3866.1	3797.2	3663.1
15°	3920.0	3943.9	3979.0	3999.0	4011.6	4015.3	4006.5	3974.0	3912.5	3832.3	3678.1
17.5°	3912.5	3941.4	4005.3	4049.2	4081.8	4080.5	4078.0	4032.9	3965.2	3882.4	3696.9
20°	3946.4	3984.0	4073.0	4141.9	4189.6	4180.8	4167.0	4108.1	4029.1	3936.3	3714.5
22.5°	4047.9	4086.8	4184.6	4259.8	4306.2	4306.2	4264.8	4187.1	4103.1	3999.0	3738.3
25°	4193.3	4236.0	4340.0	4416.5	4437.8	4421.5	4380.1	4286.1	4189.6	4089.3	3788.4
27.5°	4371.3	4422.7	4519.3	4583.2	4576.9	4564.4	4521.8	4401.4	4304.9	4213.4	3873.7
30°	4593.2	4630.8	4731.1	4746.2	4723.6	4721.1	4660.9	4540.6	4450.3	4380.1	3995.3
32.5°	4802.6	4836.4	4916.7	4922.9	4882.8	4887.8	4831.4	4721.1	4669.7	4644.6	4199.6
35°	5024.5	5042.0	5111.0	5103.5	5077.1	5073.4	5050.8	4945.5	4961.8	5006.9	4489.2
37.5°	5210.0	5245.1	5284.0	5290.2	5289.0	5301.5	5316.6	5266.4	5360.4	5502.1	4869.0
40°	5380.5	5410.6	5468.3	5488.3	5537.2	5562.3	5613.7	5614.9	5831.8	6065.0	5336.6
42.5°	5495.8	5547.2	5655.0	5691.4	5810.5	5885.7	5962.2	6043.7	6358.3	6657.9	5888.2
45°	5596.1	5663.8	5843.1	5955.9	6117.6	6209.1	6370.9	6541.3	6993.9	7386.3	6448.6
47.5°	5747.8	5808.0	6013.6	6212.9	6457.4	6562.7	6804.6	7059.1	7650.8	8080.8	6985.1
50°	5958.4	5994.8	6204.1	6528.8	6841.0	6976.4	7296.0	7663.3	8352.8	8766.5	7456.5
52.5°	6227.9	6243.0	6409.7	6842.2	7253.4	7421.4	7845.1	8273.8	8967.1	9362.0	7830.1
55°	6546.4	6521.3	6651.7	7174.4	7724.8	7944.1	8399.2	8891.9	9657.8	9843.4	8102.1
57.5°	6861.0	6822.2	6926.2	7578.1	8306.4	8570.9	9101.2	9528.7	10274.6	10293.4	8292.6
60°	7194.5	7165.6	7289.8	8052.0	9019.7	9333.1	9823.3	10189.4	10871.3	10606.8	8322.7
62.5°	7536.7	7490.3	7667.1	8584.7	9823.3	10107.9	10583.0	10891.4	11456.8	10723.4	8033.1
65°	7868.9	7847.6	8120.9	9217.8	10738.4	11061.9	11523.2	11732.6	11925.6	10547.9	7314.8
67.5°	8222.4	8265.1	8701.3	10062.7	11931.9	12338.1	12835.7	12638.9	12059.8	9716.7	6160.3
70°	8761.5	8789.1	9463.5	11169.7	13470.1	13960.2	14200.9	12961.1	11412.9	8138.5	4630.8
72.5°	8993.4	9115.0	10144.2	12331.8	15217.6	15517.2	14659.7	12242.8	9507.4	5528.4	2433.3
73°	8942.0	9087.4	10175.6	12508.5	15354.2	15668.9	14562.0	11873.0	8838.0	4761.2	2086.0
75°	8301.4	8480.7	9768.1	12360.6	15088.5	14900.4	12989.9	10119.2	5972.2	2165.0	950.2
77.5°	6550.1	6601.5	7739.8	9981.3	11881.7	11533.2	9721.8	6324.5	2439.5	804.8	539.1
80°	3285.7	3475.0	4362.6	5717.7	7945.4	7831.3	6136.4	2991.1	1016.7	472.6	357.3
82.5°	1580.8	1714.9	2124.9	2788.0	4390.2	4286.1	3038.8	1634.7	645.6	275.8	210.6
85°	1017.9	1118.2	1352.6	1330.1	1805.2	1723.7	1365.2	1237.3	382.4	144.2	146.7
87.5°	671.9	735.9	882.5	705.8	656.9	594.2	603.0	697.0	75.2	55.2	20.1
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: P454841

CATALOG NUMBER: GALN-SA6A-727-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3900.0	3900.0	3900.0	3900.0	3900.0	3900.0	3900.0	3900.0	3900.0	3900.0	3900.0
2.5°	3857.4	3841.1	3787.2	3734.5	3684.4	3636.7	3605.4	3564.0	3536.4	3544.0	3555.2
5°	3760.8	3724.5	3629.2	3536.4	3448.7	3344.6	3260.6	3193.0	3141.6	3122.7	3119.0
7.5°	3659.3	3597.9	3461.2	3302.0	3152.8	3023.7	2874.5	2800.6	2714.1	2684.0	2674.0
10°	3597.9	3515.1	3323.3	3101.4	2877.0	2662.7	2501.0	2369.3	2250.2	2227.7	2216.4
12.5°	3580.3	3471.3	3213.0	2927.2	2628.8	2365.6	2126.1	1953.1	1837.8	1811.5	1772.6
15°	3570.3	3434.9	3110.2	2751.7	2373.1	2052.2	1800.2	1598.4	1493.1	1422.9	1424.1
17.5°	3561.5	3393.5	2994.9	2559.9	2152.5	1782.6	1504.3	1322.6	1226.0	1188.4	1184.7
20°	3549.0	3344.6	2862.0	2358.0	1900.5	1536.9	1285.0	1149.6	1084.4	1053.0	1051.8
22.5°	3544.0	3297.0	2731.6	2152.5	1677.3	1347.6	1139.5	1044.3	1002.9	981.6	981.6
25°	3556.5	3263.2	2595.0	1956.9	1479.3	1185.9	1039.2	974.1	950.2	939.0	935.2
27.5°	3595.4	3248.1	2459.6	1761.3	1297.5	1075.6	971.5	926.4	908.9	900.1	901.3
30°	3669.3	3246.9	2326.7	1568.3	1162.1	991.6	917.6	886.3	872.5	867.5	866.2
32.5°	3788.4	3274.4	2196.3	1409.1	1048.0	921.4	867.5	844.9	838.7	834.9	833.7
35°	3990.2	3352.2	2067.2	1263.6	960.3	858.7	819.9	808.6	799.8	803.6	804.8
37.5°	4262.3	3486.3	1944.4	1149.6	893.8	812.3	779.7	769.7	764.7	768.5	772.2
40°	4627.1	3679.4	1841.6	1058.0	846.2	773.5	744.6	735.9	730.9	737.1	738.4
42.5°	5029.5	3902.5	1756.3	986.6	807.3	740.9	713.3	703.3	699.5	703.3	704.5
45°	5443.2	4162.0	1712.4	935.2	774.7	717.1	688.2	677.0	668.2	665.7	669.4
47.5°	5850.6	4387.6	1711.2	903.9	748.4	695.8	664.4	651.9	640.6	634.3	633.1
50°	6182.8	4566.9	1741.3	890.1	725.8	671.9	640.6	628.1	613.0	600.5	603.0
52.5°	6433.5	4683.5	1755.1	883.8	713.3	646.9	615.5	604.2	586.7	570.4	570.4
55°	6595.3	4711.1	1721.2	877.5	703.3	620.5	586.7	576.7	559.1	542.8	542.8
57.5°	6650.4	4625.8	1599.6	862.5	693.2	598.0	557.9	549.1	535.3	519.0	516.5
60°	6522.5	4337.5	1386.5	817.4	673.2	574.2	526.5	522.8	517.7	504.0	502.7
62.5°	6029.9	3725.7	1154.6	758.4	639.3	549.1	497.7	504.0	507.7	500.2	498.9
65°	5210.0	3025.0	986.6	677.0	594.2	514.0	466.3	482.6	492.7	492.7	490.2
67.5°	4225.9	2322.9	831.1	606.7	537.8	466.3	431.2	443.8	451.3	448.8	455.1
70°	3003.7	1573.3	677.0	526.5	466.3	412.4	386.1	386.1	381.1	378.6	378.6
72.5°	1456.7	898.8	549.1	440.0	397.4	352.3	331.0	322.2	312.1	310.9	304.6
73°	1217.3	806.1	524.0	423.7	381.1	343.5	319.7	305.9	299.6	294.6	293.3
75°	740.9	611.8	437.5	357.3	324.7	295.9	274.5	262.0	255.7	252.0	250.7
77.5°	487.7	456.3	339.7	273.3	248.2	230.7	221.9	209.4	205.6	200.6	200.6
80°	363.5	348.5	243.2	193.1	178.0	163.0	160.5	158.0	147.9	141.7	139.2
82.5°	234.4	248.2	165.5	129.1	112.8	100.3	101.5	105.3	95.3	86.5	84.0
85°	166.7	179.3	100.3	58.9	47.6	41.4	46.4	41.4	42.6	33.8	27.6
87.5°	27.6	47.6	17.6	7.5	3.8	2.5	0.0	0.0	0.0	0.0	0.0
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)