

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: P454673

Luminaire Tested: **GALN-SA5D-740-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454673  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5D-740-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28961 lumens  
Efficiency: N/A  
Efficacy: 93.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

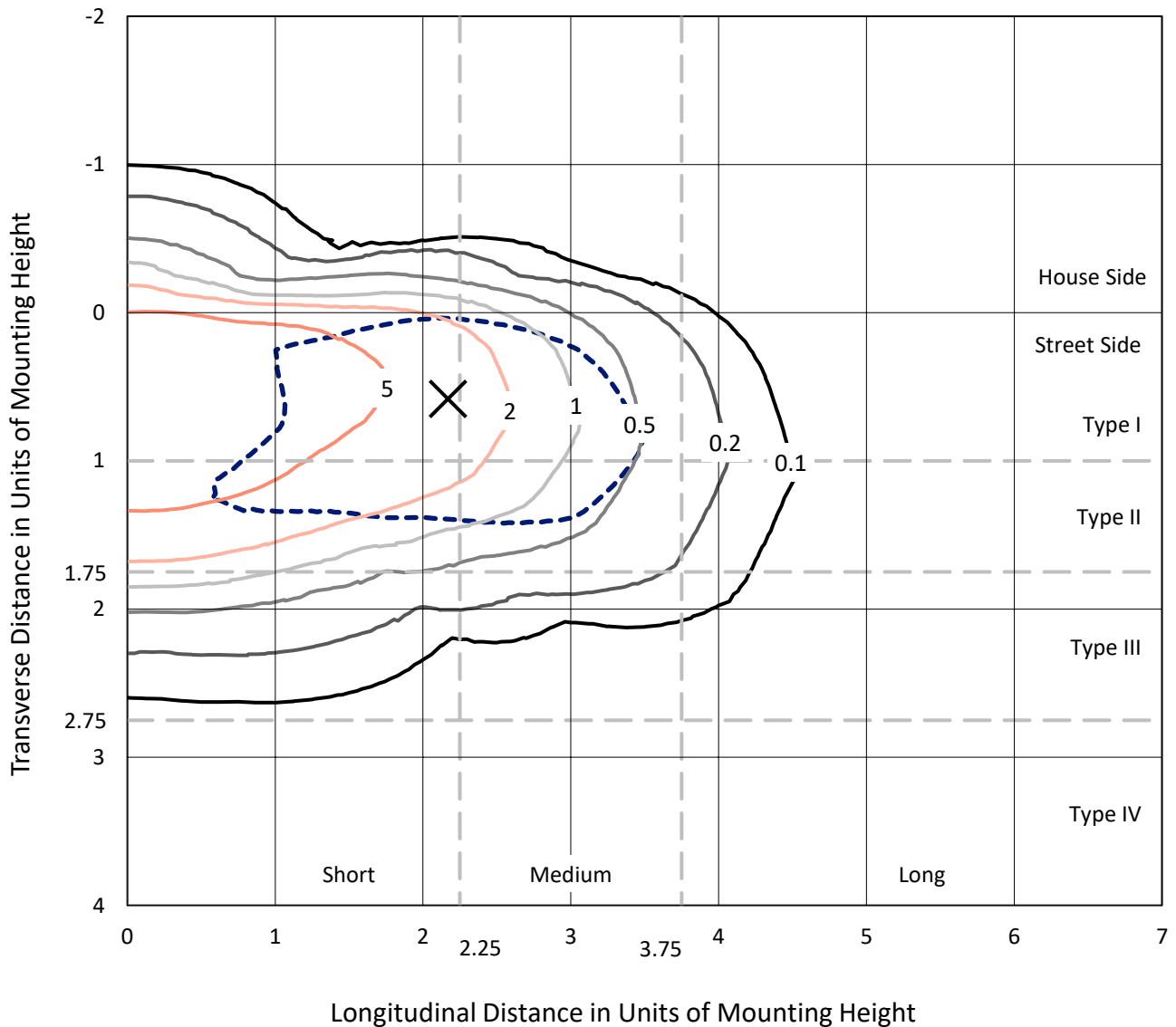
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

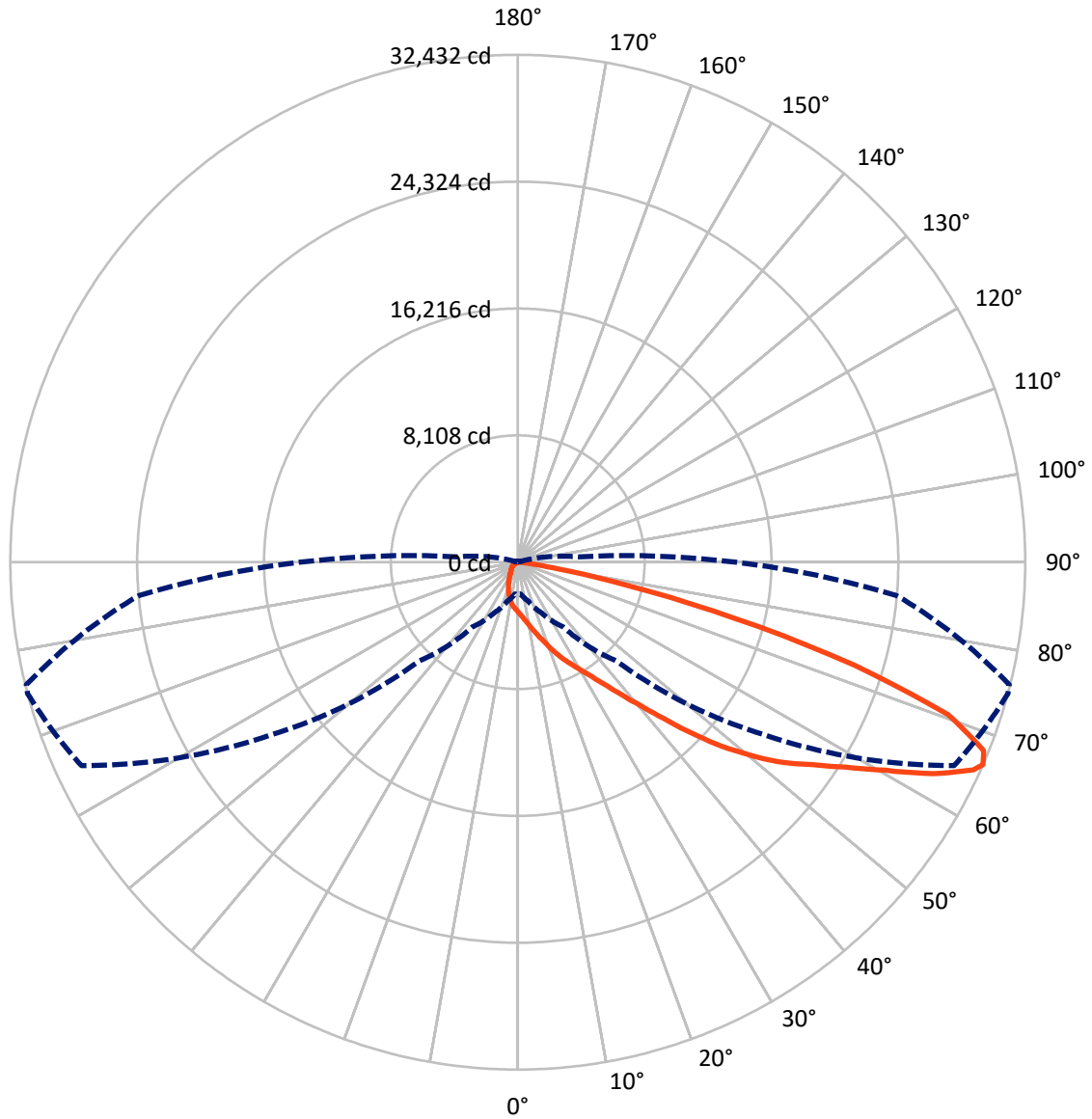
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc  
 Type II - Short - N/A

REPORT NUMBER: P454673  
CATALOG NUMBER: GALN-SA5D-740-U-T2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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CATALOG NUMBER: GALN-SA5D-740-U-T2-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1787.9	0.0	1787.9
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	27173.1	0.0	27173.1
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	28961.0	0.0	28961.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	305.5	1.1
10°-20°	899.0	3.1
20°-30°	1552.4	5.4
30°-40°	2800.3	9.7
40°-50°	5058.8	17.5
50°-60°	7886.7	27.2
60°-70°	7492.0	25.9
70°-80°	2807.8	9.7
80°-90°	158.4	0.5
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°	28961.0	100.0
0°-180°	28961.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P454673

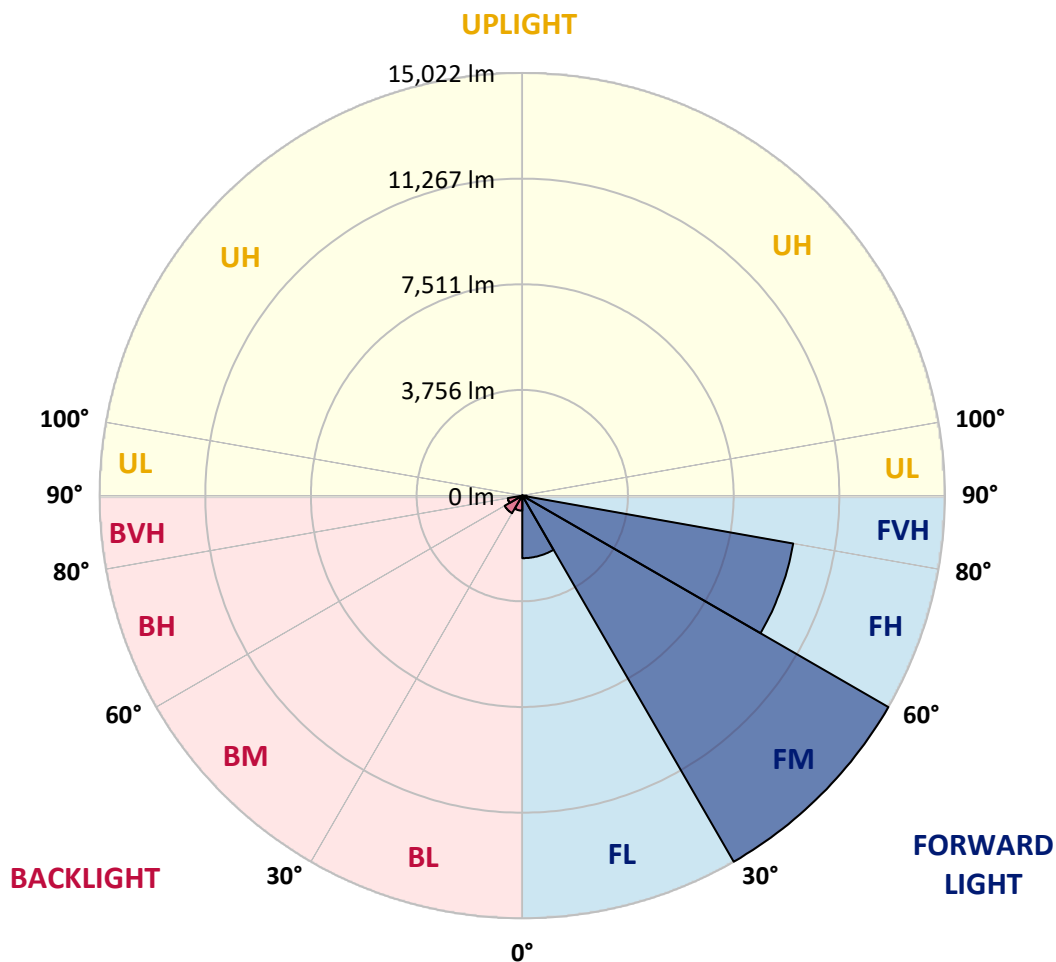
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2223.0	7.7			
FM	(30°-60°)	15022.1	51.9			
FH	(60°-80°)	9777.8	33.8			G4/12000
FVH	(80°-90°)	150.2	0.5			G2/225
BL	(0°-30°)	534.0	1.8	B2/1000		
BM	(30°-60°)	723.7	2.5	B1/1000		
BH	(60°-80°)	522.1	1.8	B2/1000		G2/1000
BVH	(80°-90°)	8.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3167.2	3167.2	3167.2	3167.2	3167.2	3167.2	3167.2	3167.2	3167.2	3167.2	3167.2
2.5°	3783.9	3736.8	3751.8	3730.4	3681.1	3608.3	3544.1	3452.0	3359.9	3344.9	3242.1
5°	4282.9	4270.0	4252.9	4190.8	4156.5	4045.2	3912.4	3753.9	3563.3	3529.1	3342.8
7.5°	4623.3	4616.9	4625.5	4593.4	4563.4	4462.7	4321.4	4105.1	3809.6	3790.3	3479.8
10°	4734.7	4751.8	4783.9	4835.3	4882.5	4850.3	4743.3	4473.4	4128.7	4073.0	3636.1
12.5°	4670.5	4689.7	4766.8	4903.9	5055.9	5143.7	5100.9	4903.9	4467.0	4422.0	3811.7
15°	4505.6	4529.1	4638.3	4850.3	5122.3	5370.7	5477.8	5336.4	4861.0	4788.2	4023.7
17.5°	4261.4	4295.7	4452.0	4732.6	5105.2	5533.4	5835.4	5788.3	5280.8	5212.2	4255.0
20°	4077.3	4103.0	4235.7	4557.0	5032.4	5623.4	6175.9	6308.6	5799.0	5681.2	4527.0
22.5°	4199.3	4207.9	4252.9	4445.6	4901.7	5646.9	6475.7	6850.4	6349.3	6244.4	4809.6
25°	4796.8	4711.1	4666.2	4623.3	4873.9	5625.5	6747.6	7415.8	6897.5	6786.2	5090.2
27.5°	5739.0	5700.5	5473.5	5169.4	5111.6	5653.4	6927.5	7951.1	7413.6	7293.7	5364.3
30°	6764.8	6698.4	6559.2	6113.8	5666.2	5850.4	7058.1	8471.5	8023.9	7865.5	5614.8
32.5°	7707.0	7749.8	7542.1	7083.8	6565.6	6270.1	7227.3	9039.0	8724.2	8527.2	5906.1
35°	8805.6	8891.2	8572.1	8133.1	7527.1	7028.2	7557.1	9679.3	9612.9	9364.5	6355.8
37.5°	9921.2	9972.6	9777.8	9161.0	8615.0	7991.8	8178.1	10469.4	10707.1	10495.1	6893.3
40°	10859.2	10929.8	10786.4	10238.2	9655.7	9107.5	9079.7	11330.3	12009.1	11790.7	7694.1
42.5°	11576.6	11630.1	11634.4	11246.8	10722.1	10473.7	10229.6	12428.8	13640.9	13388.2	8623.5
45°	12482.4	12559.5	12514.5	12251.1	11859.2	11814.3	11687.9	13756.5	15593.9	15274.8	9829.2
47.5°	13882.9	13934.3	13822.9	13512.4	13114.1	13184.8	13109.8	15244.8	17585.4	17311.3	11077.6
50°	14855.1	14940.7	15099.2	15223.4	14934.3	14673.1	14450.4	16634.6	19476.3	19230.0	12353.9
52.5°	14844.4	14985.7	15486.8	16112.1	16743.8	16664.6	16024.3	18170.0	21281.5	20977.4	13553.1
55°	13844.3	14118.4	14855.1	15964.3	17713.9	18585.5	18294.2	19947.4	22840.5	22634.9	14942.9
57.5°	11780.0	11947.0	12970.6	14521.0	17172.1	19489.1	20923.9	22356.5	24709.9	24613.6	17101.4
60°	7923.3	7998.2	9315.2	11231.8	14619.5	18587.6	22851.2	25271.0	27012.0	26964.9	19621.9
62.5°	4539.8	4571.9	5527.0	7143.8	10403.1	15752.3	23013.9	28866.4	29772.3	29798.0	22538.5
65°	2443.4	2460.5	3231.4	4192.9	6330.1	11227.5	20694.8	30836.6	32003.6	32052.9	24345.9
66°	2109.3	2027.9	2571.9	3574.0	5036.6	8936.2	19227.9	30765.9	32431.9	32378.4	24281.6
67.5°	1603.9	1676.7	2053.6	2747.5	3732.5	6353.6	15874.4	29397.5	32106.4	31939.4	23294.5
70°	1147.8	1177.8	1462.6	1959.4	2541.9	3486.2	10143.9	24416.6	29181.2	28956.4	20294.3
72.5°	740.9	773.1	1036.5	1417.6	1837.3	1903.7	5679.1	17641.1	22497.8	22465.7	15283.4
75°	528.9	558.9	685.3	1015.0	1381.2	1177.8	2734.6	11889.2	14302.6	14206.2	9454.4
77.5°	383.3	398.3	458.3	663.8	987.2	843.7	1267.7	6349.3	7120.2	7456.5	4177.9
80°	220.6	233.4	319.1	404.7	668.1	576.0	606.0	2548.3	2627.5	2501.2	1306.3
82.5°	109.2	124.2	190.6	276.2	417.6	387.6	278.4	766.6	809.5	788.0	329.8
85°	25.7	32.1	107.1	182.0	203.4	173.5	134.9	224.8	278.4	272.0	126.3
87.5°	2.1	4.3	38.5	32.1	34.3	57.8	47.1	57.8	89.9	83.5	45.0
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°	3167.2	3167.2	3167.2	3167.2	3167.2	3167.2	3167.2	3167.2	3167.2	3167.2	3167.2
2.5°	3195.0	3154.3	3036.5	2920.9	2824.5	2723.9	2631.8	2578.3	2556.9	2533.3	2544.0
5°	3240.0	3141.5	2903.8	2698.2	2496.9	2325.6	2188.5	2100.7	2057.9	2051.5	2040.8
7.5°	3299.9	3130.8	2762.4	2441.2	2177.8	1987.2	1830.9	1704.6	1666.0	1631.8	1603.9
10°	3372.7	3111.5	2586.8	2171.4	1890.9	1651.0	1445.5	1295.6	1218.5	1197.1	1212.0
12.5°	3449.8	3075.1	2402.7	1923.0	1599.6	1293.4	1102.8	1027.9	1006.5	997.9	1000.0
15°	3526.9	3030.1	2210.0	1683.2	1274.1	1032.2	944.4	925.1	916.5	912.2	908.0
17.5°	3597.6	2957.3	1993.7	1449.7	1032.2	882.3	850.1	833.0	815.9	809.5	798.8
20°	3681.1	2873.8	1798.8	1188.5	873.7	798.8	760.2	728.1	702.4	685.3	683.1
22.5°	3760.3	2766.7	1595.4	985.1	796.6	717.4	655.3	621.0	591.0	569.6	576.0
25°	3803.2	2636.1	1413.3	858.7	725.9	636.0	567.5	524.6	492.5	481.8	479.7
27.5°	3803.2	2475.5	1235.6	785.9	661.7	563.2	492.5	451.8	430.4	415.4	417.6
30°	3773.2	2297.8	1070.7	730.2	606.0	499.0	432.6	396.2	379.0	368.3	366.2
32.5°	3749.6	2128.6	929.4	676.7	548.2	443.3	385.5	357.6	340.5	329.8	329.8
35°	3786.0	1983.0	820.2	623.2	494.7	400.4	349.1	323.4	306.2	297.7	295.5
37.5°	3882.4	1850.2	736.7	565.3	445.4	364.0	323.4	293.4	276.2	265.5	261.3
40°	4120.1	1775.2	674.5	511.8	398.3	334.1	293.4	265.5	244.1	233.4	231.3
42.5°	4501.3	1777.4	614.6	462.5	361.9	308.4	267.7	235.6	212.0	201.3	199.2
45°	5075.2	1858.8	567.5	415.4	329.8	280.5	239.8	205.6	184.2	173.5	173.5
47.5°	5762.6	2017.2	526.8	374.7	299.8	254.8	212.0	177.7	156.3	147.8	147.8
50°	6507.8	2222.8	486.1	331.9	274.1	227.0	182.0	154.2	137.1	130.6	130.6
52.5°	7268.0	2471.2	445.4	297.7	246.3	197.0	156.3	137.1	122.1	117.8	115.6
55°	8265.9	2788.1	402.6	261.3	216.3	169.2	139.2	119.9	102.8	96.4	94.2
57.5°	9801.3	3265.7	355.5	229.1	177.7	141.3	119.9	100.6	81.4	70.7	68.5
60°	11653.6	3848.1	306.2	201.3	143.5	115.6	96.4	77.1	60.0	47.1	45.0
62.5°	13388.2	4218.6	259.1	169.2	113.5	87.8	68.5	57.8	42.8	30.0	27.8
65°	14154.8	4094.4	214.1	137.1	89.9	62.1	45.0	40.7	25.7	12.8	10.7
66°	13900.0	3910.2	197.0	124.2	81.4	53.5	38.5	34.3	19.3	6.4	6.4
67.5°	13148.4	3475.5	171.3	107.1	70.7	42.8	30.0	25.7	10.7	2.1	0.0
70°	11266.1	2811.7	134.9	79.2	51.4	30.0	17.1	12.8	6.4	0.0	0.0
72.5°	8653.5	2094.3	107.1	60.0	36.4	17.1	8.6	4.3	6.4	0.0	0.0
75°	5302.2	1197.1	83.5	45.0	23.6	10.7	6.4	0.0	6.4	2.1	0.0
77.5°	2353.4	537.5	55.7	30.0	17.1	8.6	4.3	0.0	4.3	2.1	0.0
80°	595.3	175.6	32.1	21.4	12.8	6.4	2.1	0.0	4.3	4.3	2.1
82.5°	162.7	64.2	23.6	17.1	10.7	6.4	2.1	0.0	4.3	4.3	4.3
85°	64.2	30.0	21.4	17.1	12.8	6.4	2.1	0.0	4.3	4.3	4.3
87.5°	30.0	21.4	21.4	19.3	15.0	6.4	2.1	0.0	4.3	2.1	4.3
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)