

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: P453941

Luminaire Tested: **GALN-SA5A-730-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453941  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5A-730-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17156 lumens  
Efficiency: N/A  
Efficacy: 111.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

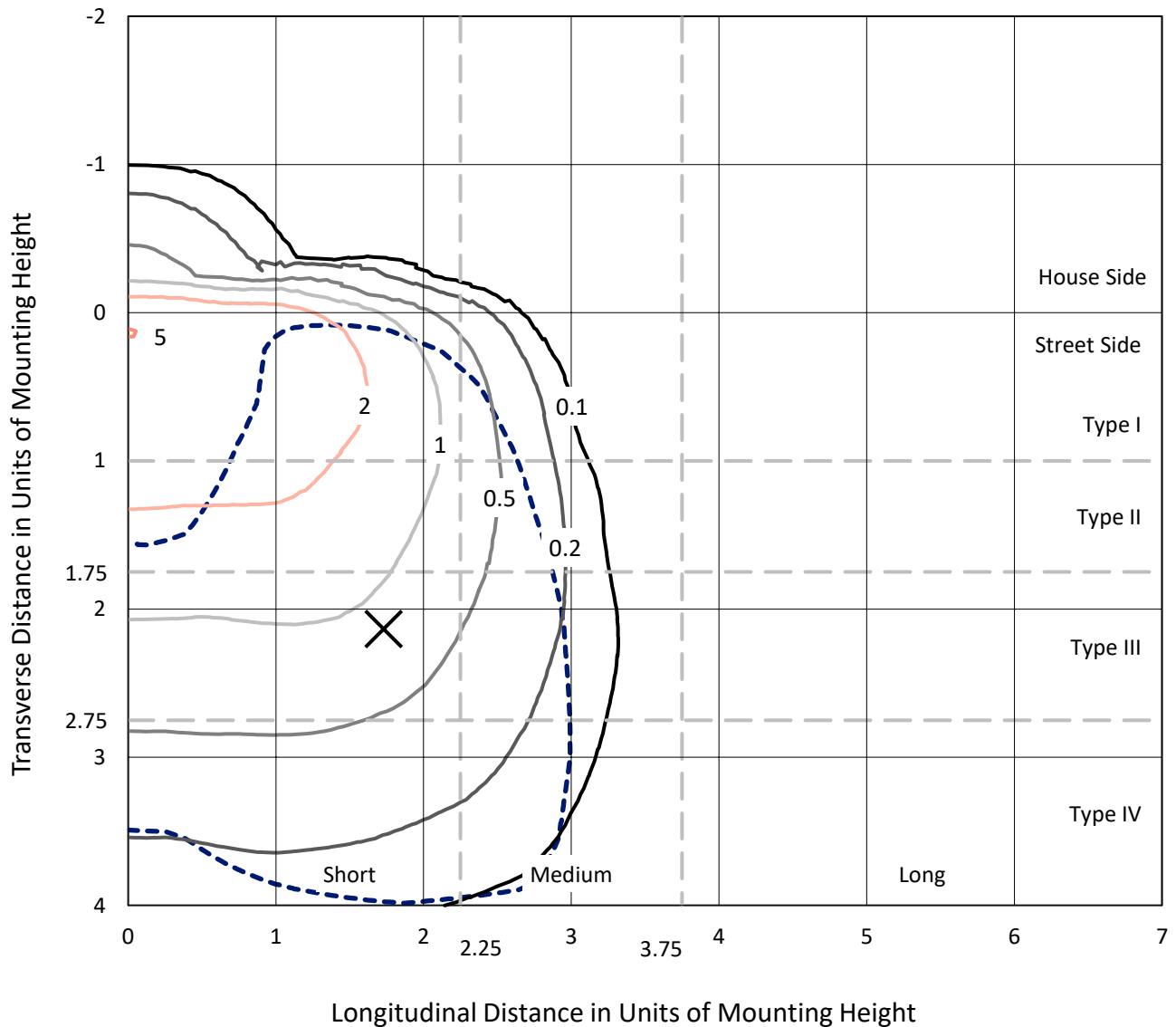
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P453941  
 CATALOG NUMBER: GALN-SA5A-730-U-SL4-HSS

### Iso-Footcandle Lines of Horizontal Illumination

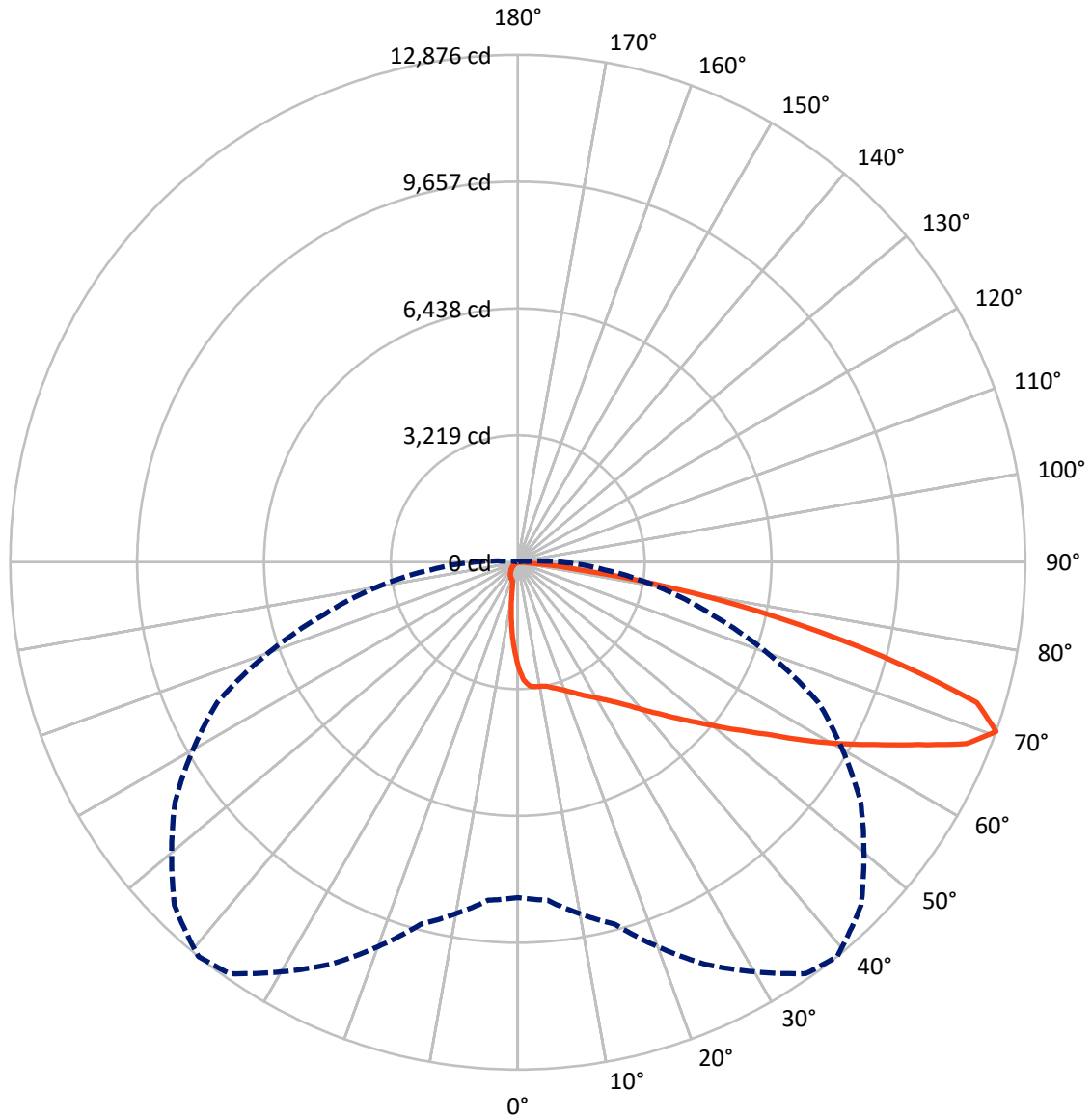
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type IV - Short - N/A

REPORT NUMBER: P453941  
CATALOG NUMBER: GALN-SA5A-730-U-SL4-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P453941

CATALOG NUMBER: GALN-SA5A-730-U-SL4-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1118.7	0.0	1118.7
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	16037.3	0.0	16037.3
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	17156.0	0.0	17156.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.3	1.3
10°-20°	593.3	3.5
20°-30°	994.0	5.8
30°-40°	1541.6	9.0
40°-50°	2443.0	14.2
50°-60°	3581.0	20.9
60°-70°	4590.0	26.8
70°-80°	2884.2	16.8
80°-90°	300.5	1.8
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°	17156.0	100.0
0°-180°	17156.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P453941

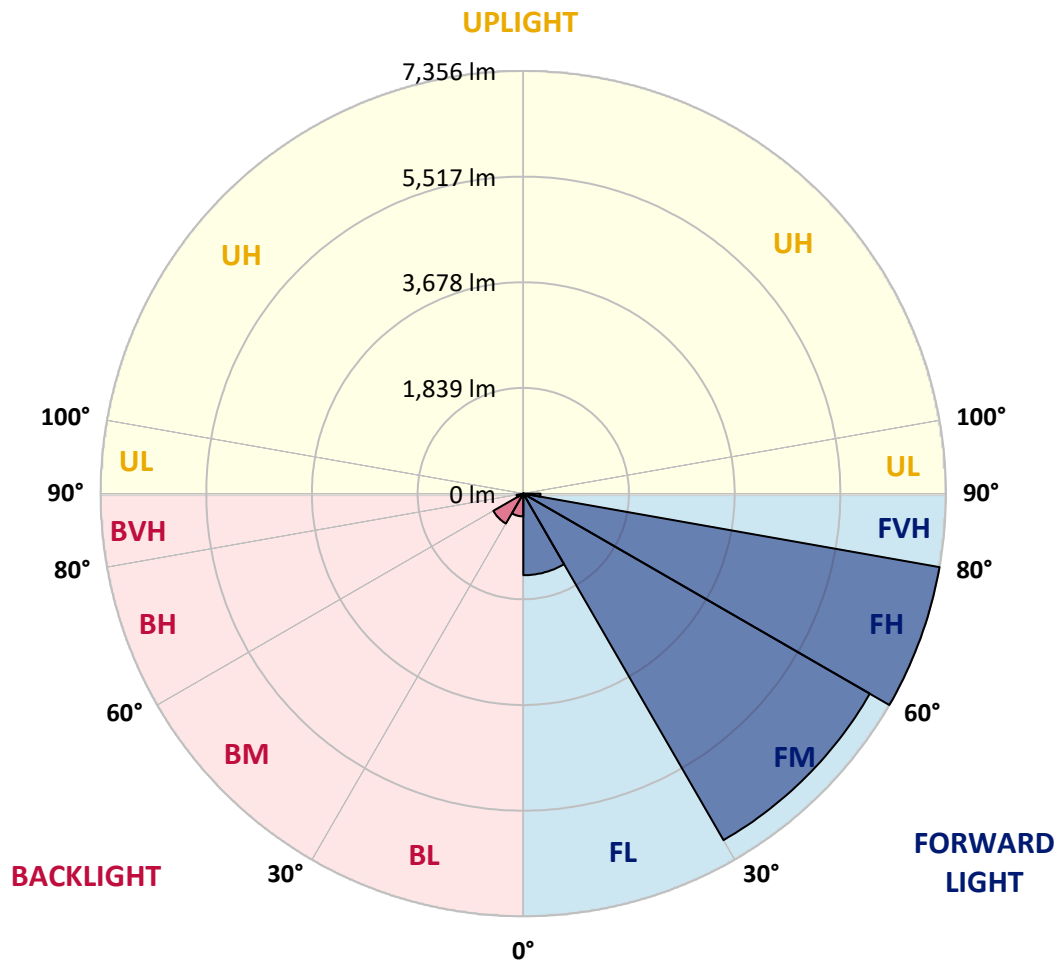
CATALOG NUMBER: GALN-SA5A-730-U-SL4-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1419.6	8.3			
FM (30°-60°)	6963.6	40.6			
FH (60°-80°)	7355.9	42.9			G3/7500
FVH (80°-90°)	298.3	1.7			G3/500
BL (0°-30°)	396.1	2.3	B1/500		
BM (30°-60°)	602.0	3.5	B1/1000		
BH (60°-80°)	118.3	0.7	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





REPORT NUMBER: P453941

CATALOG NUMBER: GALN-SA5A-730-U-SL4-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2676.9	2676.9	2676.9	2676.9	2676.9	2676.9	2676.9	2676.9	2676.9	2676.9	2676.9
2.5°	3093.1	3082.7	3068.9	3052.8	3006.6	2998.6	2970.9	2912.1	2841.8	2784.1	2704.6
5°	3239.5	3245.3	3234.9	3206.1	3172.7	3153.1	3118.5	3027.4	2936.3	2819.9	2689.6
7.5°	3272.9	3284.5	3271.8	3244.1	3211.8	3191.1	3163.4	3085.0	2979.0	2846.4	2667.7
10°	3269.5	3283.3	3275.3	3249.9	3223.4	3203.8	3173.8	3111.6	3026.2	2886.7	2674.6
12.5°	3263.7	3282.2	3281.0	3268.3	3246.4	3231.4	3213.0	3157.7	3078.1	2945.5	2712.7
15°	3247.6	3270.6	3291.4	3301.8	3302.9	3302.9	3279.9	3221.1	3145.0	3022.8	2762.2
17.5°	3254.5	3281.0	3332.9	3362.9	3383.6	3381.3	3357.1	3293.7	3209.5	3102.3	2814.1
20°	3297.2	3332.9	3405.5	3465.5	3486.2	3479.3	3447.0	3373.2	3277.6	3170.3	2864.8
22.5°	3402.1	3434.3	3525.4	3595.7	3610.7	3592.3	3546.2	3445.9	3359.4	3244.1	2925.9
25°	3558.9	3596.9	3681.1	3734.1	3734.1	3723.7	3659.2	3541.6	3451.6	3346.7	3005.5
27.5°	3749.1	3781.4	3864.4	3911.6	3884.0	3854.0	3789.4	3647.6	3561.2	3475.9	3101.2
30°	3941.6	3962.4	4050.0	4070.7	4041.9	4003.9	3934.7	3792.9	3716.8	3651.1	3239.5
32.5°	4123.8	4168.7	4241.3	4236.7	4197.5	4179.1	4115.7	3964.7	3922.0	3915.1	3433.2
35°	4305.9	4340.5	4405.1	4421.2	4386.6	4383.1	4337.0	4225.2	4226.4	4271.3	3735.2
37.5°	4462.7	4493.8	4569.9	4605.6	4612.6	4629.9	4611.4	4537.6	4642.5	4765.9	4135.3
40°	4594.1	4637.9	4734.8	4797.0	4868.5	4931.9	4935.4	4951.5	5162.5	5374.6	4657.5
42.5°	4696.7	4757.8	4898.5	5013.8	5177.5	5258.2	5322.7	5411.5	5766.6	6083.6	5273.1
45°	4830.5	4900.8	5076.0	5257.0	5512.9	5645.5	5735.4	5972.9	6476.7	6909.0	5904.9
47.5°	5051.8	5088.7	5267.4	5531.4	5868.0	6057.1	6232.3	6592.0	7238.8	7626.1	6430.6
50°	5336.6	5360.8	5495.6	5862.3	6298.0	6547.1	6866.4	7289.5	8029.6	8221.0	6728.0
52.5°	5651.3	5659.4	5760.8	6226.6	6779.9	7093.5	7450.9	7973.1	8674.1	8645.2	6925.2
55°	6016.7	6005.2	6091.7	6622.0	7350.6	7709.1	8125.3	8672.9	9233.2	8946.1	7038.2
57.5°	6435.2	6404.1	6488.3	7146.5	8081.5	8510.4	8933.5	9277.0	9666.7	9198.6	7092.4
60°	6873.3	6811.1	6911.4	7735.6	8942.7	9349.6	9701.3	9793.5	10123.2	9399.2	6999.0
62.5°	7222.6	7223.8	7410.5	8362.8	9828.1	10184.3	10371.1	10454.1	10516.3	9355.4	6507.9
65°	7767.9	7786.4	8085.0	9233.2	10853.0	11161.9	11289.9	11020.1	10533.6	8811.3	5770.0
67.5°	8330.5	8389.3	8935.8	10432.2	12036.9	12286.0	12121.1	11129.6	10063.3	7569.6	4375.1
70°	8513.8	8610.7	9511.0	11257.6	12747.1	12876.2	12318.2	10618.9	8412.4	5061.0	2201.9
72.5°	7801.4	7958.1	9180.2	10956.7	12294.0	12182.2	11021.3	8905.8	5348.1	1921.8	672.1
75°	5501.4	5570.6	7629.6	9089.1	9888.0	9571.0	8383.5	5741.2	2199.6	539.5	230.6
77.5°	2840.6	2807.2	4537.6	6030.6	7052.0	6723.4	5489.9	2972.1	833.5	224.8	143.0
80°	1468.7	1492.9	1963.3	3160.0	4304.8	3961.2	2927.1	1377.7	443.8	124.5	109.5
82.5°	823.1	772.4	1128.6	1380.0	2012.9	1578.3	1122.9	975.3	193.7	74.9	103.8
85°	149.9	156.8	619.1	745.9	698.6	443.8	362.0	651.4	56.5	41.5	72.6
87.5°	2.3	2.3	119.9	214.4	136.0	62.3	114.1	93.4	11.5	16.1	12.7
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: P453941  
 CATALOG NUMBER: GALN-SA5A-730-U-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2676.9	2676.9	2676.9	2676.9	2676.9	2676.9	2676.9	2676.9	2676.9	2676.9	2676.9
2.5°	2664.2	2620.4	2538.6	2457.9	2355.3	2271.1	2214.6	2155.8	2095.9	2100.5	2114.3
5°	2618.1	2542.0	2380.6	2210.0	2046.3	1898.7	1753.5	1623.2	1570.2	1521.8	1524.1
7.5°	2572.0	2464.8	2228.5	1961.0	1713.1	1461.8	1279.7	1129.8	1050.2	990.3	973.0
10°	2551.3	2409.5	2089.0	1721.2	1369.6	1095.2	861.2	739.0	644.4	614.5	622.5
12.5°	2560.5	2381.8	1963.3	1504.5	1086.0	763.2	599.5	537.2	516.5	513.0	510.7
15°	2577.8	2362.2	1840.0	1264.7	797.8	567.2	503.8	492.3	490.0	487.7	488.8
17.5°	2600.8	2344.9	1708.5	1039.9	612.2	495.7	477.3	471.5	470.4	470.4	470.4
20°	2623.9	2325.3	1562.1	839.3	510.7	468.1	456.5	453.1	451.9	451.9	450.8
22.5°	2650.4	2308.0	1413.4	659.4	470.4	448.5	438.1	435.8	434.6	433.5	433.5
25°	2688.5	2286.1	1255.5	539.5	445.0	430.0	419.6	417.3	416.2	411.6	412.7
27.5°	2739.2	2270.0	1092.9	465.8	421.9	407.0	400.0	396.6	394.3	390.8	392.0
30°	2808.3	2256.1	920.0	425.4	395.4	382.7	375.8	373.5	371.2	367.8	367.8
32.5°	2928.2	2261.9	737.8	393.1	371.2	356.2	349.3	347.0	344.7	341.2	341.2
35°	3108.1	2295.3	590.3	365.5	342.4	327.4	320.5	320.5	317.0	312.4	311.3
37.5°	3402.1	2380.6	473.8	338.9	314.7	300.9	292.8	290.5	287.1	280.1	279.0
40°	3749.1	2513.2	398.9	312.4	289.4	275.5	268.6	261.7	252.5	245.6	244.4
42.5°	4184.9	2649.3	345.9	285.9	265.2	252.5	244.4	232.9	219.0	209.8	208.7
45°	4639.1	2773.8	310.1	261.7	242.1	231.7	222.5	204.1	186.8	175.2	174.1
47.5°	4978.0	2796.8	281.3	238.6	222.5	212.1	199.4	176.4	153.3	143.0	139.5
50°	5138.3	2685.0	251.3	215.6	202.9	191.4	175.2	148.7	123.4	110.7	108.4
52.5°	5194.8	2491.3	227.1	194.8	183.3	169.5	149.9	119.9	96.8	84.2	83.0
55°	5171.7	2246.9	205.2	175.2	160.2	144.1	124.5	95.7	71.5	61.1	58.8
57.5°	5050.6	1935.6	183.3	155.6	137.2	121.0	99.1	71.5	48.4	39.2	38.0
60°	4724.4	1511.4	161.4	133.7	116.4	99.1	78.4	50.7	30.0	21.9	21.9
62.5°	4173.3	1121.7	140.6	111.8	98.0	79.5	55.3	32.3	16.1	11.5	10.4
65°	3487.4	827.7	117.6	94.5	81.9	62.3	39.2	19.6	8.1	3.5	2.3
67.5°	2433.7	510.7	98.0	77.2	66.9	45.0	24.2	8.1	3.5	0.0	0.0
70°	1105.6	243.3	74.9	58.8	50.7	32.3	12.7	4.6	2.3	0.0	0.0
72.5°	343.6	128.0	53.0	42.7	34.6	20.8	6.9	3.5	2.3	0.0	0.0
75°	159.1	81.9	33.4	23.1	19.6	10.4	4.6	2.3	1.2	0.0	0.0
77.5°	118.7	63.4	19.6	12.7	10.4	6.9	3.5	2.3	1.2	0.0	0.0
80°	103.8	32.3	11.5	8.1	5.8	4.6	2.3	1.2	0.0	0.0	0.0
82.5°	93.4	16.1	6.9	4.6	3.5	2.3	1.2	1.2	0.0	0.0	0.0
85°	50.7	9.2	4.6	3.5	2.3	1.2	1.2	0.0	0.0	0.0	0.0
87.5°	9.2	4.6	3.5	2.3	2.3	1.2	1.2	1.2	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)