

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: P459103

Luminaire Tested: **GALN-SA6A-735-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459103  
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-SA6A-735-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 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: 20780 lumens  
Efficiency: N/A  
Efficacy: 114.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G4

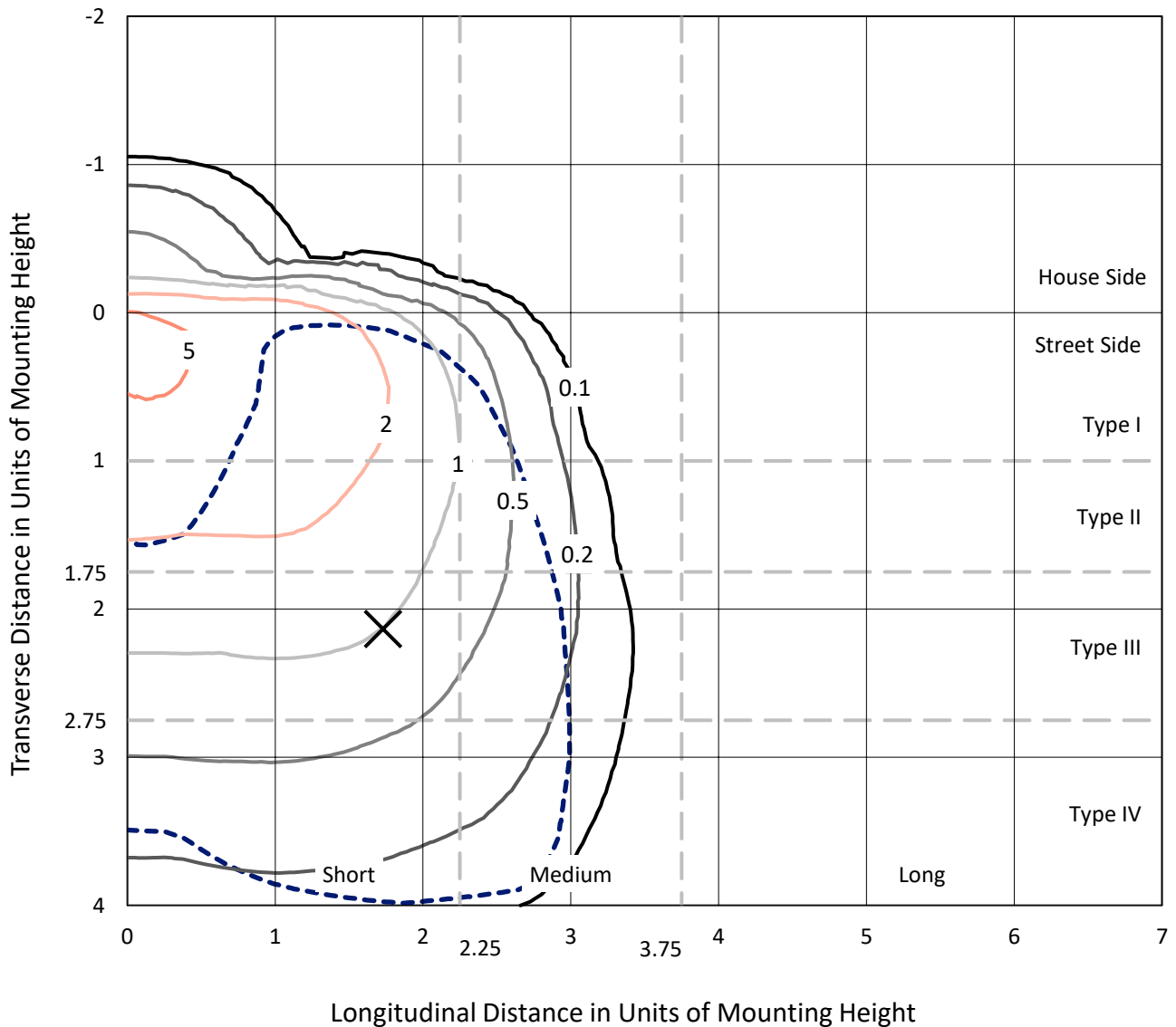
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P459103  
 CATALOG NUMBER: GALN-SA6A-735-U-SL4-HSS

### Iso-Footcandle Lines of Horizontal Illumination

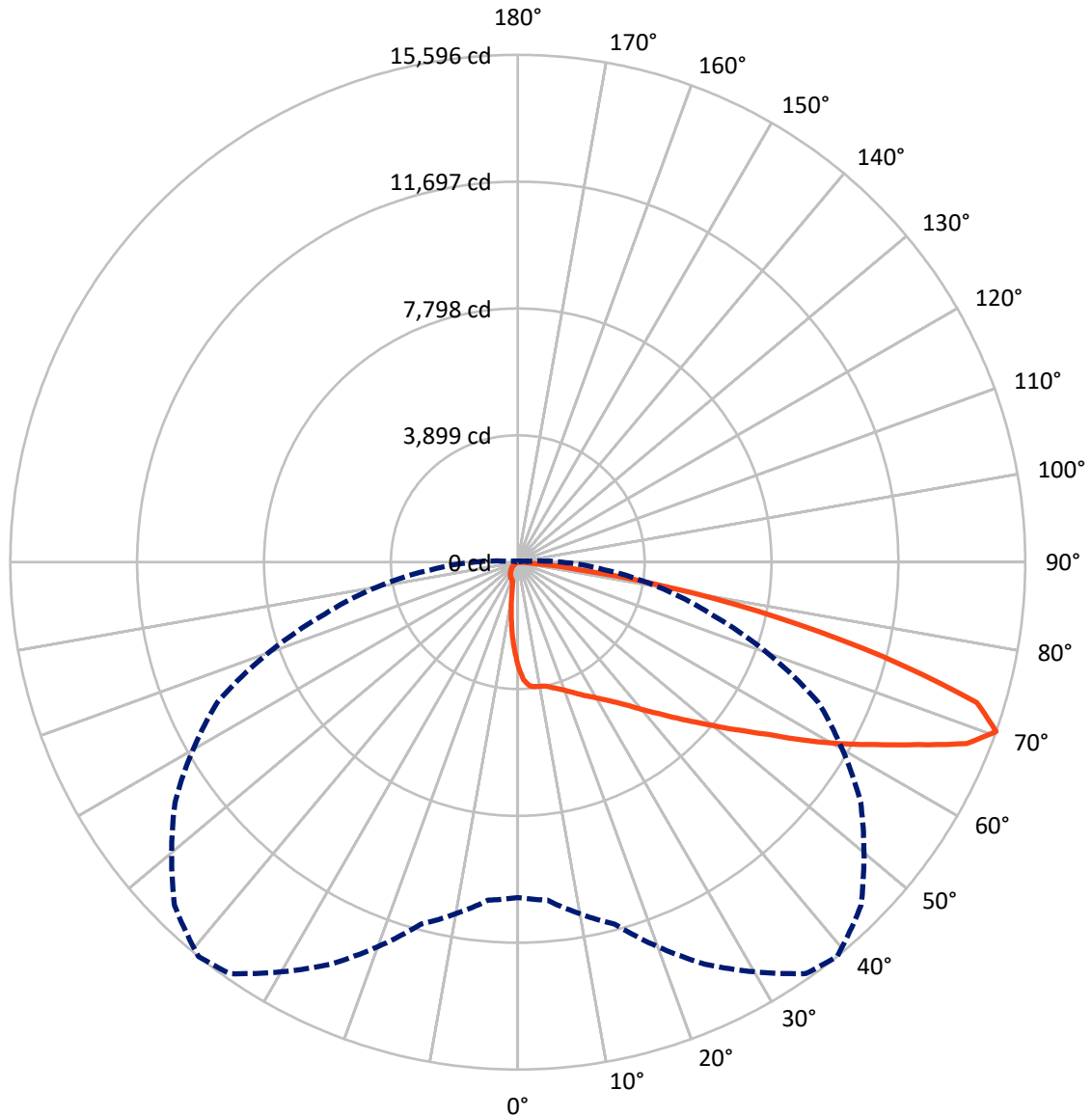
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type IV - Short - N/A

REPORT NUMBER: P459103  
CATALOG NUMBER: GALN-SA6A-735-U-SL4-HSS

### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1355.0	0.0	1355.0
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	19425.0	0.0	19425.0
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	20780.0	0.0	20780.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.6	1.3
10°-20°	718.7	3.5
20°-30°	1204.0	5.8
30°-40°	1867.2	9.0
40°-50°	2959.0	14.2
50°-60°	4337.5	20.9
60°-70°	5559.6	26.8
70°-80°	3493.5	16.8
80°-90°	363.9	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°	20780.0	100.0
0°-180°	20780.0	100.0

**Coefficient of Utilization**

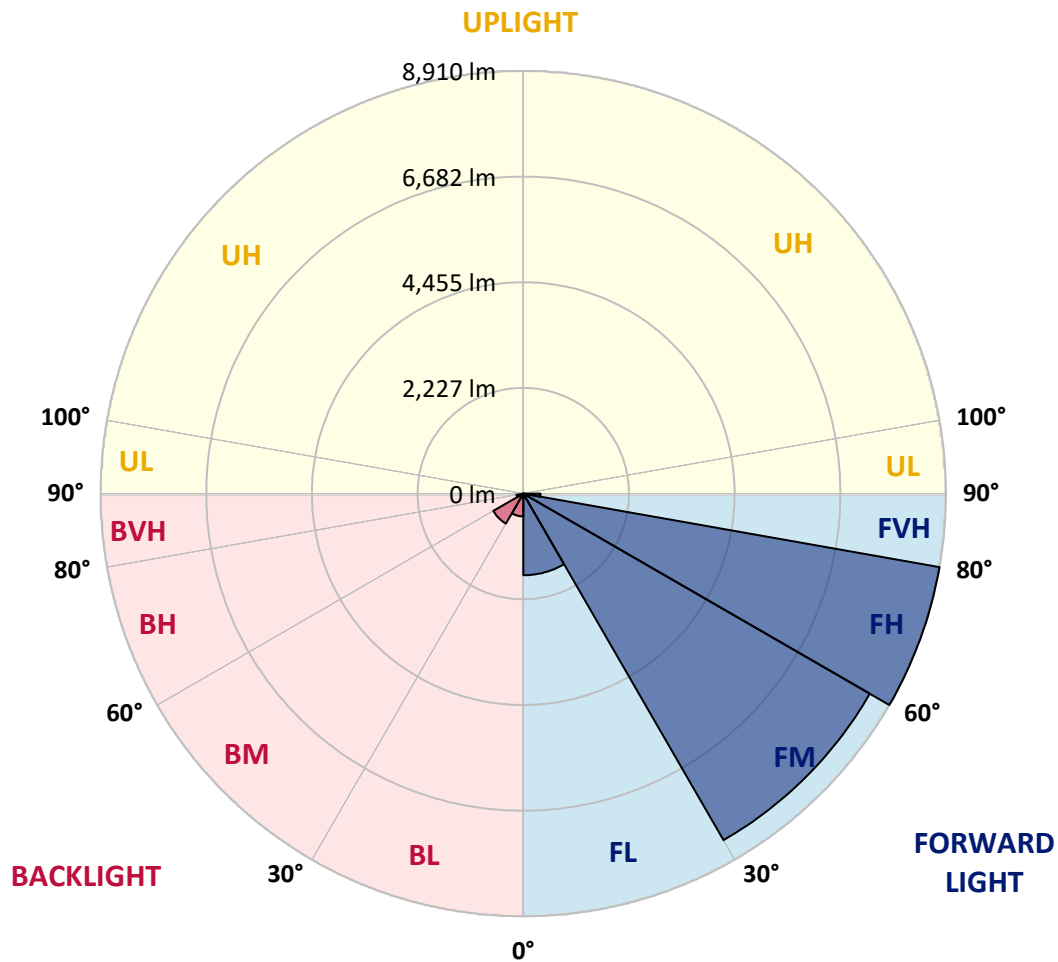


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1719.4	8.3			
FM (30°-60°)	8434.6	40.6			
FH (60°-80°)	8909.8	42.9			G4/12000
FVH (80°-90°)	361.3	1.7			G3/500
BL (0°-30°)	479.8	2.3	B1/500		
BM (30°-60°)	729.2	3.5	B1/1000		
BH (60°-80°)	143.3	0.7	B1/500		G1/500
BVH (80°-90°)	2.7	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-G4**  
 Type IV Short





REPORT NUMBER: P459103

CATALOG NUMBER: GALN-SA6A-735-U-SL4-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3242.4	3242.4	3242.4	3242.4	3242.4	3242.4	3242.4	3242.4	3242.4	3242.4	3242.4
2.5°	3746.5	3733.9	3717.2	3697.6	3641.8	3632.0	3598.5	3527.3	3442.1	3372.3	3275.9
5°	3923.8	3930.8	3918.2	3883.3	3842.8	3819.1	3777.2	3666.9	3556.6	3415.5	3257.8
7.5°	3964.3	3978.3	3962.9	3929.4	3890.3	3865.2	3831.7	3736.7	3608.2	3447.7	3231.2
10°	3960.1	3976.9	3967.1	3936.4	3904.3	3880.5	3844.2	3768.8	3665.5	3496.5	3239.6
12.5°	3953.1	3975.5	3974.1	3958.7	3932.2	3914.1	3891.7	3824.7	3728.3	3567.7	3285.7
15°	3933.6	3961.5	3986.7	3999.2	4000.6	4000.6	3972.7	3901.5	3809.3	3661.3	3345.7
17.5°	3942.0	3974.1	4036.9	4073.2	4098.4	4095.6	4066.3	3989.5	3887.5	3757.7	3408.6
20°	3993.6	4036.9	4124.9	4197.5	4222.7	4214.3	4175.2	4085.8	3969.9	3840.0	3470.0
22.5°	4120.7	4159.8	4270.1	4355.3	4373.5	4351.1	4295.3	4173.8	4069.0	3929.4	3544.0
25°	4310.6	4356.7	4458.6	4522.9	4522.9	4510.3	4432.1	4289.7	4180.8	4053.7	3640.4
27.5°	4541.0	4580.1	4680.7	4737.9	4704.4	4668.1	4589.9	4418.1	4313.4	4210.1	3756.3
30°	4774.2	4799.4	4905.5	4930.6	4895.7	4849.6	4765.8	4594.1	4501.9	4422.3	3923.8
32.5°	4994.8	5049.3	5137.3	5131.7	5084.2	5061.9	4985.1	4802.1	4750.5	4742.1	4158.4
35°	5215.5	5257.4	5335.6	5355.1	5313.2	5309.0	5253.2	5117.7	5119.1	5173.6	4524.3
37.5°	5405.4	5443.1	5535.2	5578.5	5586.9	5607.9	5585.5	5496.1	5623.2	5772.6	5008.8
40°	5564.6	5617.6	5734.9	5810.3	5896.9	5973.7	5977.9	5997.4	6253.0	6509.9	5641.4
42.5°	5688.8	5762.9	5933.2	6072.9	6271.1	6368.9	6447.1	6554.6	6984.7	7368.7	6387.0
45°	5850.8	5936.0	6148.3	6367.5	6677.5	6838.1	6947.0	7234.6	7844.9	8368.5	7152.3
47.5°	6118.9	6163.6	6380.1	6699.8	7107.6	7336.6	7548.8	7984.5	8767.9	9237.0	7789.0
50°	6463.8	6493.2	6656.5	7100.6	7628.4	7930.0	8316.8	8829.3	9725.8	9957.6	8149.3
52.5°	6845.1	6854.8	6977.7	7541.8	8212.1	8591.9	9024.8	9657.4	10506.4	10471.4	8388.1
55°	7287.7	7273.7	7378.5	8020.8	8903.3	9337.6	9841.7	10505.0	11183.6	10835.9	8524.9
57.5°	7794.6	7756.9	7858.8	8656.2	9788.6	10308.1	10820.5	11236.7	11708.6	11141.7	8590.5
60°	8325.2	8249.8	8371.3	9369.7	10831.7	11324.6	11750.5	11862.2	12261.6	11384.7	8477.4
62.5°	8748.3	8749.7	8975.9	10129.3	11904.1	12335.6	12561.8	12662.4	12737.8	11331.6	7882.6
65°	9408.8	9431.1	9792.8	11183.6	13145.5	13519.7	13674.7	13348.0	12758.7	10672.5	6988.9
67.5°	10090.2	10161.5	10823.3	12635.8	14579.6	14881.2	14681.5	13480.6	12189.0	9168.6	5299.3
70°	10312.3	10429.6	11520.1	13635.6	15439.8	15596.2	14920.3	12862.0	10189.4	6130.1	2667.1
72.5°	9449.3	9639.2	11119.4	13271.2	14891.0	14755.5	13349.4	10787.0	6477.8	2327.8	814.1
75°	6663.5	6747.3	9241.2	11009.1	11976.7	11592.7	10154.5	6954.0	2664.3	653.5	279.3
77.5°	3440.7	3400.2	5496.1	7304.5	8541.7	8143.7	6649.6	3599.9	1009.6	272.3	173.2
80°	1779.0	1808.3	2378.0	3827.5	5214.1	4798.0	3545.4	1668.7	537.6	150.8	132.7
82.5°	997.0	935.6	1367.1	1671.5	2438.1	1911.6	1360.1	1181.3	234.6	90.8	125.7
85°	181.5	189.9	749.9	903.5	846.2	537.6	438.5	789.0	68.4	50.3	88.0
87.5°	2.8	2.8	145.2	259.7	164.8	75.4	138.2	113.1	14.0	19.5	15.4
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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CATALOG NUMBER: GALN-SA6A-735-U-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3242.4	3242.4	3242.4	3242.4	3242.4	3242.4	3242.4	3242.4	3242.4	3242.4	3242.4
2.5°	3227.0	3174.0	3074.8	2977.1	2852.8	2750.9	2682.4	2611.2	2538.6	2544.2	2561.0
5°	3171.2	3079.0	2883.5	2676.9	2478.6	2299.8	2123.9	1966.1	1901.9	1843.2	1846.0
7.5°	3115.3	2985.5	2699.2	2375.2	2075.0	1770.6	1550.0	1368.5	1272.1	1199.5	1178.5
10°	3090.2	2918.4	2530.2	2084.8	1658.9	1326.6	1043.1	895.1	780.6	744.3	754.0
12.5°	3101.4	2884.9	2378.0	1822.3	1315.4	924.4	726.1	650.7	625.6	621.4	618.6
15°	3122.3	2861.2	2228.6	1531.8	966.3	687.0	610.2	596.3	593.5	590.7	592.1
17.5°	3150.2	2840.2	2069.4	1259.5	741.5	600.4	578.1	571.1	569.7	569.7	569.7
20°	3178.2	2816.5	1892.1	1016.6	618.6	566.9	553.0	548.8	547.4	547.4	546.0
22.5°	3210.3	2795.6	1712.0	798.7	569.7	543.2	530.6	527.8	526.4	525.0	525.0
25°	3256.4	2769.0	1520.7	653.5	539.0	520.8	508.3	505.5	504.1	498.5	499.9
27.5°	3317.8	2749.5	1323.8	564.1	511.1	492.9	484.5	480.4	477.6	473.4	474.8
30°	3401.6	2732.7	1114.3	515.3	479.0	463.6	455.2	452.4	449.6	445.4	445.4
32.5°	3546.8	2739.7	893.7	476.2	449.6	431.5	423.1	420.3	417.5	413.3	413.3
35°	3764.6	2780.2	714.9	442.7	414.7	396.6	388.2	388.2	384.0	378.4	377.0
37.5°	4120.7	2883.5	573.9	410.5	381.2	364.5	354.7	351.9	347.7	339.3	337.9
40°	4541.0	3044.1	483.1	378.4	350.5	333.7	325.4	317.0	305.8	297.4	296.0
42.5°	5068.9	3208.9	418.9	346.3	321.2	305.8	296.0	282.1	265.3	254.1	252.7
45°	5619.0	3359.7	375.6	317.0	293.2	280.7	269.5	247.2	226.2	212.2	210.9
47.5°	6029.6	3387.6	340.7	289.1	269.5	256.9	241.6	213.6	185.7	173.2	169.0
50°	6223.7	3252.2	304.4	261.1	245.8	231.8	212.2	180.1	149.4	134.1	131.3
52.5°	6292.1	3017.6	275.1	236.0	222.0	205.3	181.5	145.2	117.3	101.9	100.5
55°	6264.2	2721.5	248.6	212.2	194.1	174.5	150.8	115.9	86.6	74.0	71.2
57.5°	6117.5	2344.5	222.0	188.5	166.2	146.6	120.1	86.6	58.6	47.5	46.1
60°	5722.4	1830.7	195.5	162.0	141.0	120.1	95.0	61.4	36.3	26.5	26.5
62.5°	5054.9	1358.7	170.4	135.4	118.7	96.4	67.0	39.1	19.5	14.0	12.6
65°	4224.0	1002.6	142.4	114.5	99.1	75.4	47.5	23.7	9.8	4.2	2.8
67.5°	2947.8	618.6	118.7	93.6	81.0	54.5	29.3	9.8	4.2	0.0	0.0
70°	1339.1	294.6	90.8	71.2	61.4	39.1	15.4	5.6	2.8	0.0	0.0
72.5°	416.1	155.0	64.2	51.7	41.9	25.1	8.4	4.2	2.8	0.0	0.0
75°	192.7	99.1	40.5	27.9	23.7	12.6	5.6	2.8	1.4	0.0	0.0
77.5°	143.8	76.8	23.7	15.4	12.6	8.4	4.2	2.8	1.4	0.0	0.0
80°	125.7	39.1	14.0	9.8	7.0	5.6	2.8	1.4	0.0	0.0	0.0
82.5°	113.1	19.5	8.4	5.6	4.2	2.8	1.4	1.4	0.0	0.0	0.0
85°	61.4	11.2	5.6	4.2	2.8	1.4	1.4	0.0	0.0	0.0	0.0
87.5°	11.2	5.6	4.2	2.8	2.8	1.4	1.4	1.4	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)