

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: P459203

Luminaire Tested: **GALN-SA6D-735-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459203  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-735-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33457 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

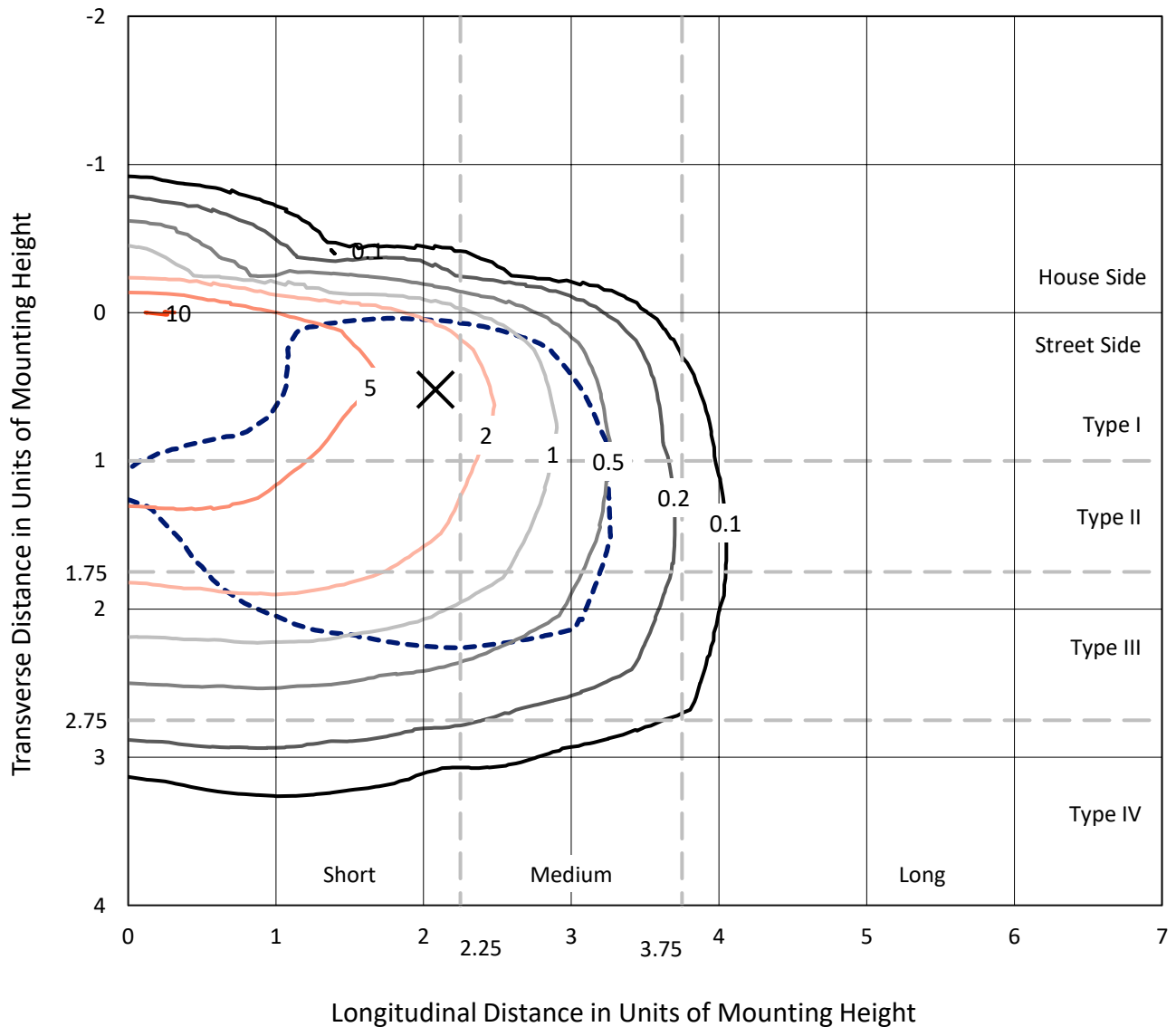
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P459203  
 CATALOG NUMBER: GALN-SA6D-735-U-T3R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

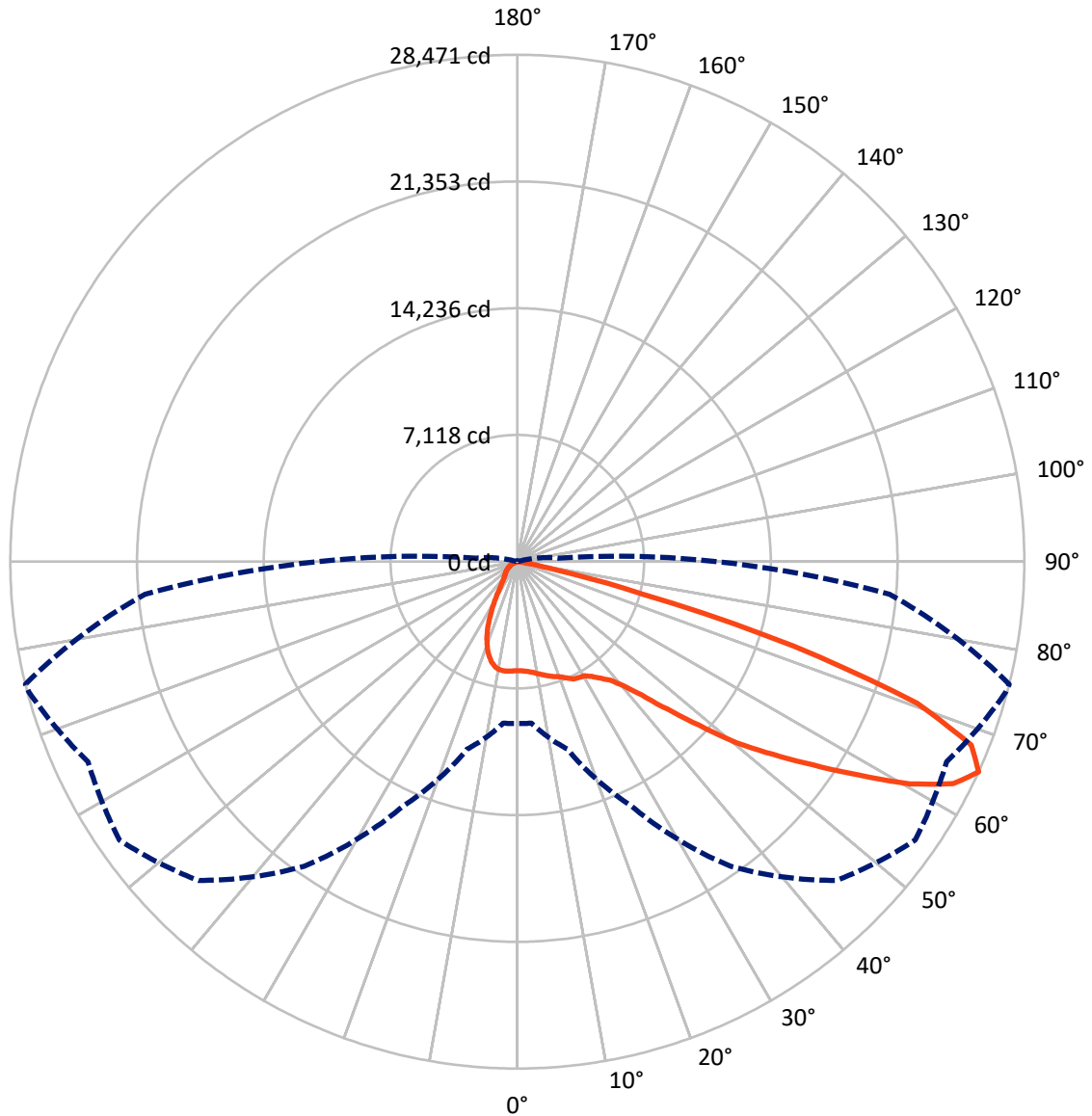
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc  
 Type III - Short - N/A

REPORT NUMBER: P459203  
CATALOG NUMBER: GALN-SA6D-735-U-T3R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P459203

CATALOG NUMBER: GALN-SA6D-735-U-T3R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2416.3	0.0	2416.3
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	31040.7	0.0	31040.7
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	33457.0	0.0	33457.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	504.2	1.5
10°-20°	1122.6	3.4
20°-30°	1808.9	5.4
30°-40°	3145.3	9.4
40°-50°	5197.4	15.5
50°-60°	8028.9	24.0
60°-70°	9804.5	29.3
70°-80°	3721.0	11.1
80°-90°	124.2	0.4
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°	33457.0	100.0
0°-180°	33457.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P459203

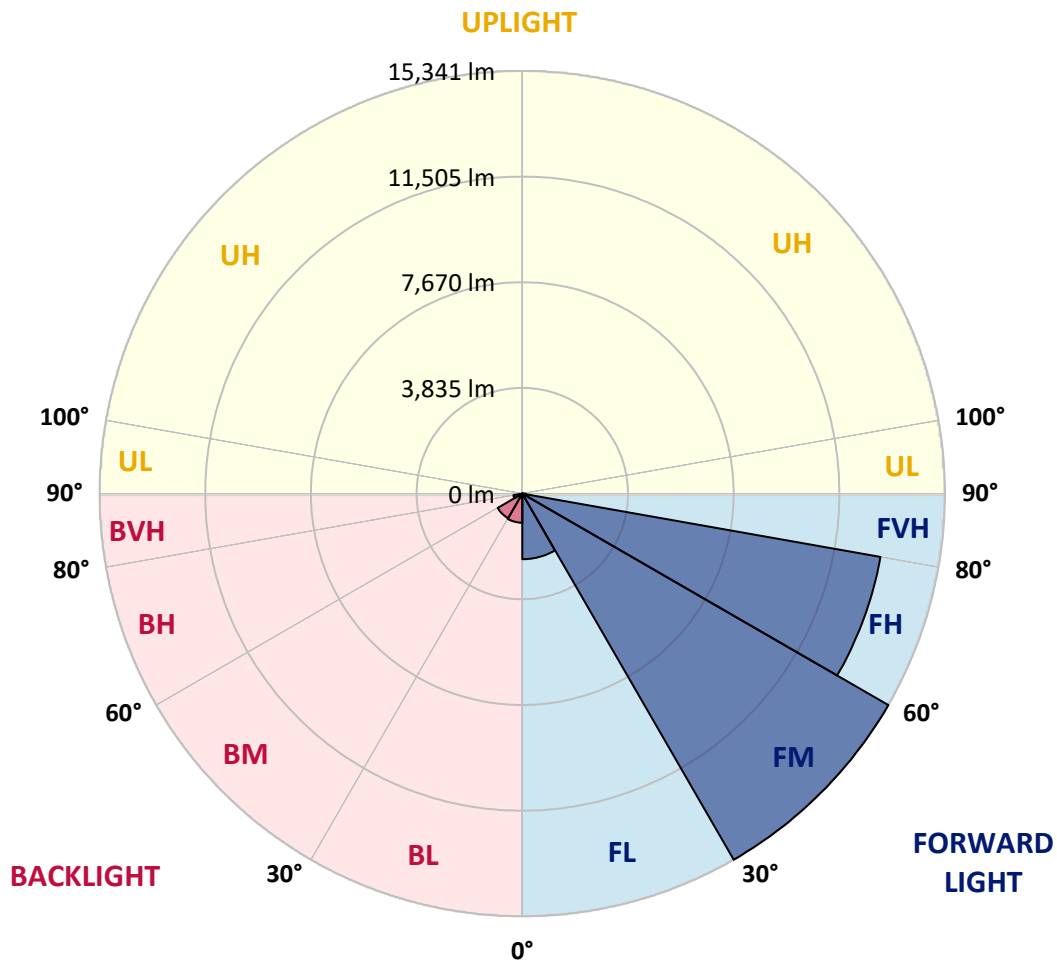
CATALOG NUMBER: GALN-SA6D-735-U-T3R-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2380.1	7.1			
FM	(30°-60°)	15340.5	45.9			
FH	(60°-80°)	13197.7	39.4			G5
FVH	(80°-90°)	122.5	0.4			G2/225
BL	(0°-30°)	1055.6	3.2	B3/2500		
BM	(30°-60°)	1031.1	3.1	B2/2500		
BH	(60°-80°)	327.9	1.0	B1/500		G1/500
BVH	(80°-90°)	1.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short





REPORT NUMBER: P459203

CATALOG NUMBER: GALN-SA6D-735-U-T3R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6120.4	6120.4	6120.4	6120.4	6120.4	6120.4	6120.4	6120.4	6120.4	6120.4	6120.4
2.5°	5848.7	5851.1	5865.2	5900.7	5955.0	5999.9	6037.7	6099.1	6141.6	6146.3	6160.5
5°	5444.8	5416.4	5444.8	5536.9	5619.6	5744.8	5898.3	6051.9	6188.9	6198.3	6264.4
7.5°	4991.2	5014.9	5059.7	5154.2	5310.1	5501.5	5723.5	5997.5	6257.4	6281.0	6410.9
10°	4530.6	4582.6	4655.8	4799.9	5017.2	5265.3	5567.6	5959.7	6366.0	6399.1	6623.5
12.5°	4105.4	4129.1	4218.8	4412.5	4681.8	5031.4	5449.5	5938.5	6486.5	6526.6	6850.3
15°	3779.5	3810.2	3888.1	4062.9	4362.9	4811.7	5352.7	5931.4	6604.6	6661.3	7077.0
17.5°	3718.0	3736.9	3770.0	3888.1	4150.3	4636.9	5265.3	5929.0	6718.0	6786.5	7287.3
20°	3970.8	3954.3	3921.2	3909.4	4053.5	4502.3	5201.5	5947.9	6826.6	6904.6	7509.3
22.5°	4603.8	4625.1	4431.4	4202.3	4155.0	4481.0	5192.0	6037.7	6999.1	7091.2	7757.3
25°	5947.9	5784.9	5482.6	4934.5	4521.2	4610.9	5298.3	6250.3	7199.9	7301.4	7981.7
27.5°	7433.7	7384.1	6914.0	6011.7	5241.6	4884.9	5487.3	6413.3	7266.0	7369.9	8109.3
30°	8893.5	8952.6	8414.0	7417.2	6288.1	5392.8	5664.5	6474.7	7325.1	7433.7	8272.3
32.5°	10247.0	10317.9	9845.5	8858.1	7521.1	6271.5	5969.2	6713.3	7573.1	7684.1	8543.9
35°	11312.4	11321.8	10965.1	10178.5	8867.5	7339.2	6628.2	7131.4	7908.5	8038.4	8832.1
37.5°	12290.3	12276.1	11858.0	11180.1	9989.6	8399.8	7457.3	7613.2	8291.2	8425.8	9247.9
40°	13015.5	13024.9	12890.3	12252.5	11036.0	9380.1	8114.0	8064.4	8933.7	9143.9	9852.6
42.5°	13499.7	13587.1	13653.3	13329.7	12351.7	10587.2	9122.7	9030.5	10048.6	10223.4	10707.7
45°	13891.9	14047.8	14378.5	14361.9	13615.5	12068.3	10506.9	10317.9	11628.9	11815.5	11796.6
47.5°	14177.7	14335.9	14884.0	15214.7	14803.6	13504.5	12247.8	12084.8	13516.3	13719.4	12999.0
50°	14324.1	14513.1	15212.3	15852.4	15732.0	14888.7	14232.0	14241.5	15795.8	15991.8	14392.6
52.5°	13981.6	14227.3	15387.1	16539.8	16773.7	16213.9	16091.0	16402.8	17824.8	17992.6	15651.7
55°	12887.9	13197.4	15148.5	17125.7	17980.8	17777.6	18202.8	18677.6	20042.9	20151.6	16943.8
57.5°	12195.8	12524.2	14444.6	17624.1	19431.1	19742.9	20416.1	20763.4	22331.8	22608.2	18427.2
60°	11612.4	11869.8	13865.9	17730.4	20905.1	22147.6	22801.9	23161.0	25157.0	25336.5	20059.5
62.5°	10641.5	10936.8	12887.9	16988.6	21646.8	24072.8	25428.6	25268.0	27342.0	27467.2	21061.0
65°	9080.1	9106.1	10903.7	15124.9	20881.5	25322.3	27273.5	26600.3	28386.1	28471.1	20983.1
67.5°	6777.0	7027.4	8388.0	11888.7	17638.2	24254.6	27871.1	26635.7	27727.0	27490.8	19317.7
70°	4365.3	4556.6	5685.7	8243.9	12717.9	20241.3	25889.3	24809.8	24335.0	23810.6	15812.3
72.5°	2014.9	2260.6	3377.9	4710.1	7542.4	14418.6	21016.1	20156.3	17515.4	16220.9	10051.0
75°	878.7	940.1	1667.7	2485.0	3536.2	7625.0	13856.4	12512.4	7910.9	7225.8	4022.8
77.5°	536.2	576.4	874.0	1332.3	1388.9	2905.5	7464.4	5458.9	2444.8	2156.7	1091.3
80°	363.8	408.7	635.4	696.8	474.8	810.2	2801.5	1457.5	493.7	472.4	233.9
82.5°	177.2	224.4	470.1	389.8	205.5	259.8	814.9	311.8	144.1	134.6	82.7
85°	26.0	44.9	264.6	255.1	92.1	61.4	144.1	78.0	49.6	47.2	37.8
87.5°	0.0	0.0	89.8	40.2	9.4	9.4	16.5	16.5	18.9	16.5	18.9
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: P459203

CATALOG NUMBER: GALN-SA6D-735-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6120.4	6120.4	6120.4	6120.4	6120.4	6120.4	6120.4	6120.4	6120.4	6120.4	6120.4
2.5°	6167.6	6179.4	6134.5	6070.7	6002.2	5933.7	5836.9	5749.5	5697.5	5728.2	5652.6
5°	6278.6	6269.2	6151.1	5957.4	5699.9	5390.4	5083.4	4821.2	4736.1	4608.6	4594.4
7.5°	6432.2	6406.2	6155.8	5711.7	5130.6	4549.5	3982.6	3607.0	3392.1	3210.2	3214.9
10°	6647.1	6571.5	6101.5	5279.4	4322.8	3446.4	2723.6	2227.5	2012.6	1944.1	1889.7
12.5°	6869.2	6722.7	5950.3	4696.0	3366.1	2355.1	1655.9	1353.5	1221.2	1178.7	1174.0
15°	7067.6	6836.1	5685.7	3994.4	2447.2	1504.7	1129.1	1029.9	1013.4	1015.7	1013.4
17.5°	7263.6	6925.8	5319.6	3250.3	1663.0	1079.5	970.8	947.2	954.3	963.8	961.4
20°	7426.6	6944.7	4851.9	2480.3	1176.4	947.2	911.8	907.1	914.2	921.2	921.2
22.5°	7603.8	6958.9	4296.8	1717.3	961.4	881.1	862.2	862.2	871.6	881.1	883.4
25°	7736.1	6881.0	3633.0	1233.0	848.0	817.3	807.9	810.2	819.7	824.4	822.0
27.5°	7757.3	6661.3	2929.1	944.9	770.1	739.4	729.9	739.4	727.5	734.6	729.9
30°	7776.2	6382.6	2215.7	796.0	699.2	652.0	637.8	623.6	614.2	602.4	600.0
32.5°	7835.3	6054.2	1618.1	715.7	633.1	581.1	548.0	507.9	477.2	467.7	465.3
35°	7861.3	5659.7	1188.2	652.0	574.0	517.3	458.3	401.6	356.7	340.2	352.0
37.5°	7960.5	5277.1	921.2	604.7	522.0	451.2	375.6	304.7	262.2	252.8	257.5
40°	8163.6	4861.3	772.4	564.6	477.2	389.8	297.6	229.1	200.8	191.3	189.0
42.5°	8489.6	4447.9	687.4	526.8	432.3	328.3	233.9	179.5	155.9	148.8	148.8
45°	8886.4	4051.1	628.3	486.6	385.0	264.6	184.2	144.1	129.9	125.2	125.2
47.5°	9408.5	3703.9	578.7	446.4	333.1	210.2	148.8	125.2	115.7	118.1	120.5
50°	9937.6	3446.4	524.4	401.6	274.0	172.4	127.6	111.0	108.7	111.0	111.0
52.5°	10336.8	3295.2	451.2	340.2	215.0	144.1	113.4	103.9	101.6	96.8	96.8
55°	10875.4	3262.1	359.0	276.4	170.1	120.5	101.6	94.5	87.4	82.7	80.3
57.5°	11567.5	3299.9	276.4	215.0	132.3	99.2	89.8	78.0	68.5	59.1	59.1
60°	11997.4	3214.9	215.0	165.4	96.8	80.3	68.5	56.7	44.9	37.8	35.4
62.5°	11860.4	2855.8	170.1	122.8	68.5	59.1	44.9	37.8	26.0	18.9	16.5
65°	11154.1	2305.5	137.0	85.0	49.6	35.4	23.6	23.6	11.8	2.4	0.0
67.5°	9762.8	1707.8	108.7	56.7	28.3	16.5	11.8	7.1	0.0	0.0	0.0
70°	7946.3	1233.0	85.0	35.4	16.5	11.8	4.7	2.4	0.0	0.0	0.0
72.5°	5045.6	706.3	66.1	21.3	11.8	4.7	0.0	0.0	0.0	0.0	0.0
75°	1951.1	276.4	44.9	14.2	4.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	552.7	129.9	26.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	144.1	56.7	14.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	68.5	23.6	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	40.2	9.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.9	2.4	0.0	0.0	0.0	0.0	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)