

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: P454447

Luminaire Tested: **GALN-SA5C-740-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454447  
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-SA5C-740-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 1050mA 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: 27565 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 269  
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

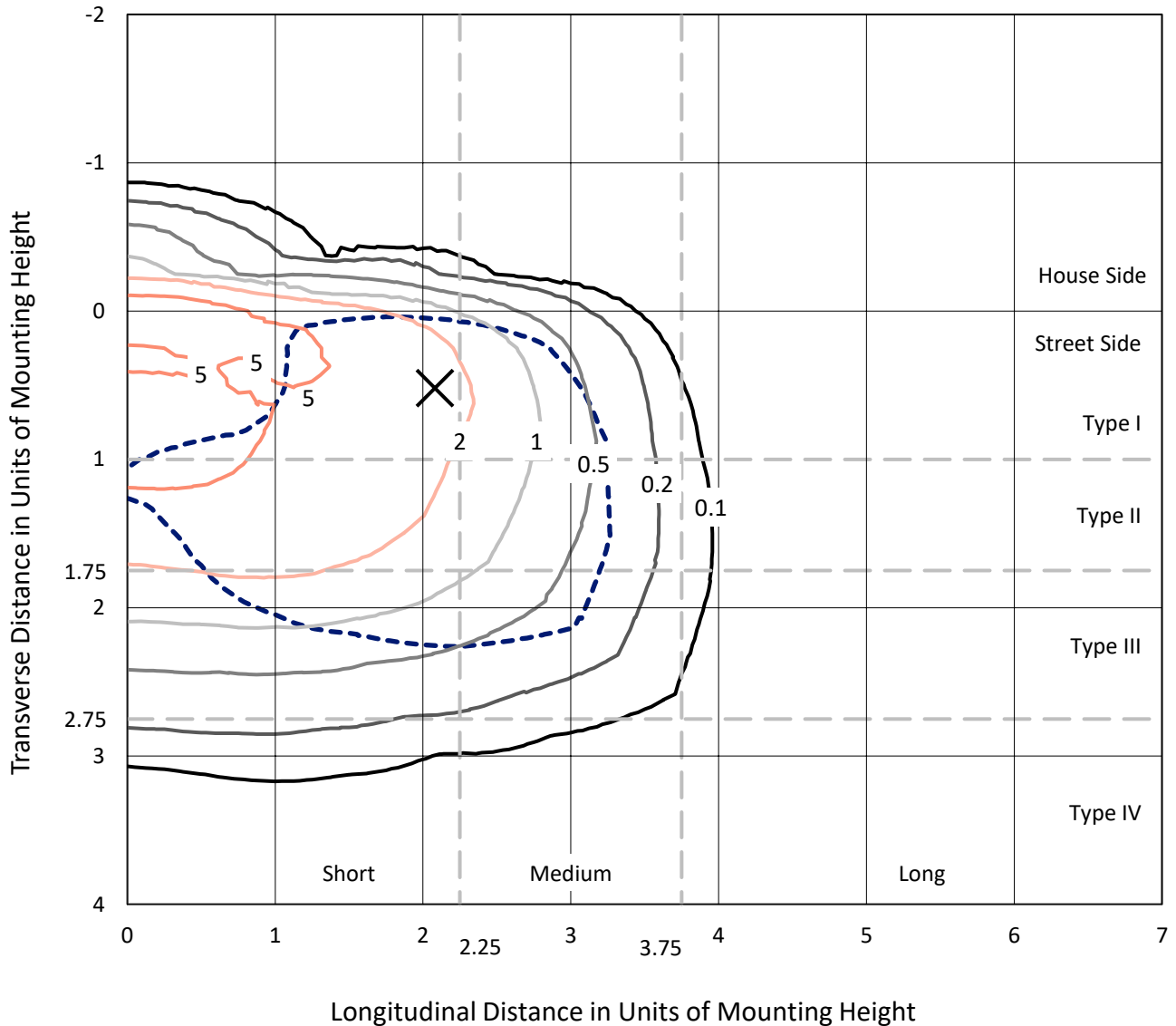




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### Iso-Footcandle Lines of Horizontal Illumination

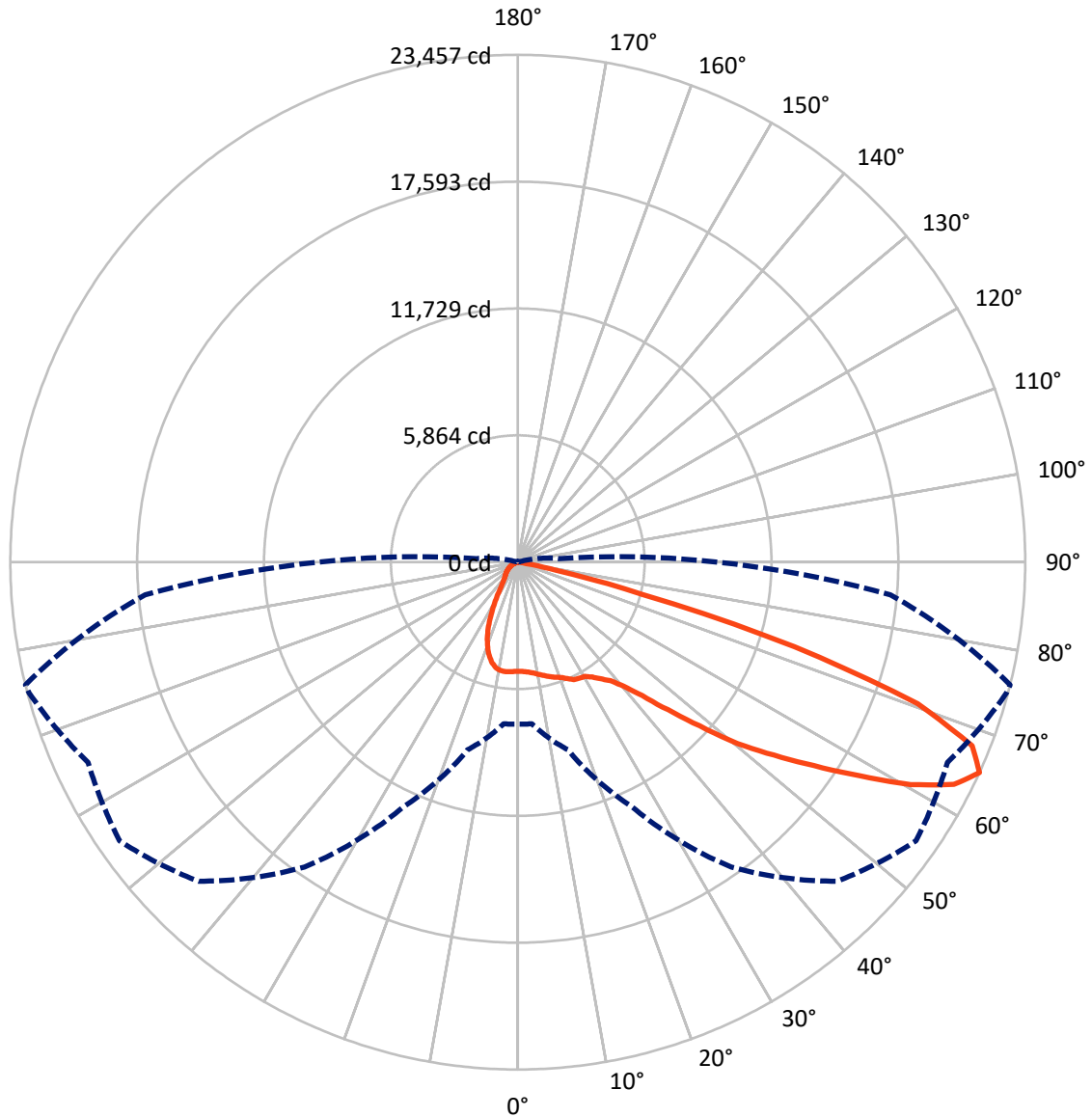
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1990.7	0.0	1990.7
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	25574.3	0.0	25574.3
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	27565.0	0.0	27565.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	415.4	1.5
10°-20°	924.9	3.4
20°-30°	1490.4	5.4
30°-40°	2591.4	9.4
40°-50°	4282.1	15.5
50°-60°	6615.0	24.0
60°-70°	8077.8	29.3
70°-80°	3065.7	11.1
80°-90°	102.3	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°	27565.0	100.0
0°-180°	27565.0	100.0

**Coefficient of Utilization**



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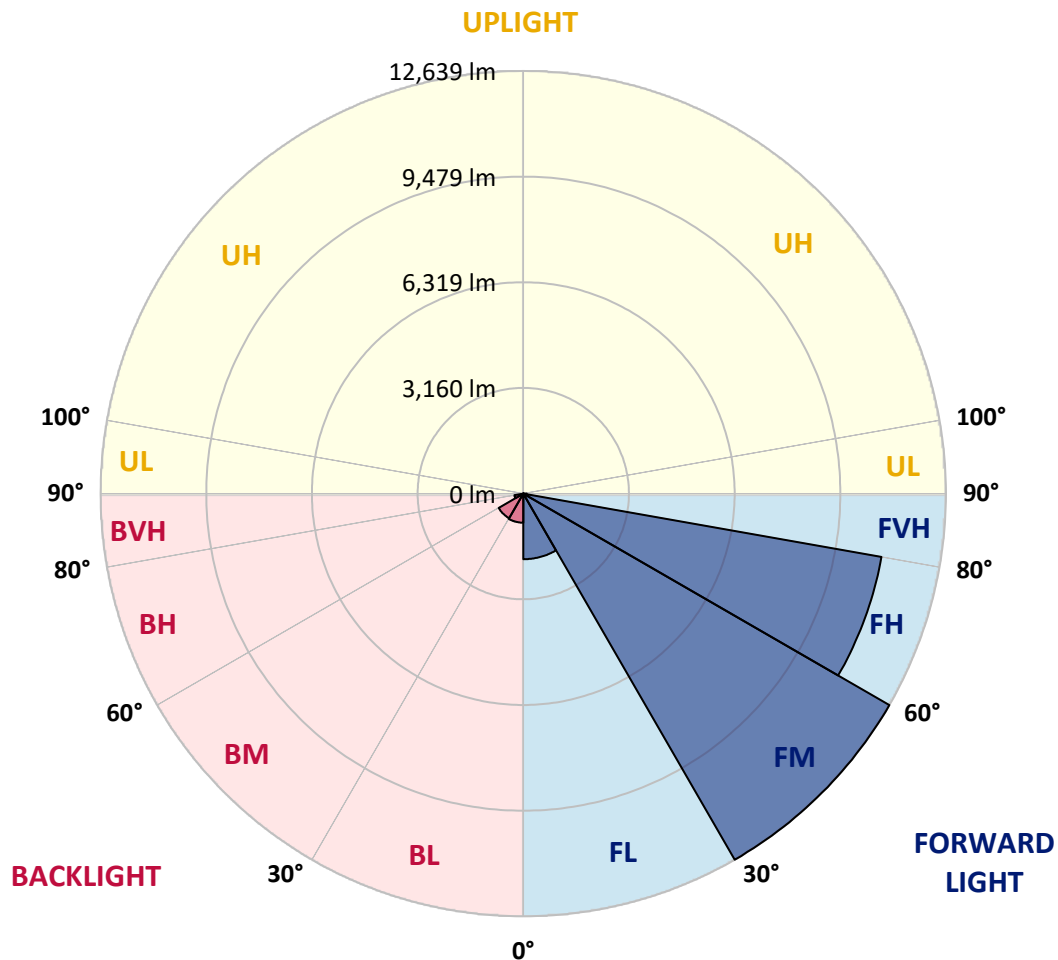
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1960.9	7.1			
FM (30°-60°)	12639.0	45.9			
FH (60°-80°)	10873.5	39.4			G4/12000
FVH (80°-90°)	100.9	0.4			G2/225
BL (0°-30°)	869.7	3.2	B2/1000		
BM (30°-60°)	849.5	3.1	B1/1000		
BH (60°-80°)	270.1	1.0	B1/500		G1/500
BVH (80°-90°)	1.4	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5042.5	5042.5	5042.5	5042.5	5042.5	5042.5	5042.5	5042.5	5042.5	5042.5	5042.5
2.5°	4818.7	4820.7	4832.3	4861.5	4906.3	4943.3	4974.4	5025.0	5060.0	5063.9	5075.6
5°	4485.9	4462.6	4485.9	4561.8	4629.9	4733.1	4859.6	4986.1	5099.0	5106.7	5161.2
7.5°	4112.3	4131.7	4168.7	4246.5	4375.0	4532.6	4715.6	4941.3	5155.4	5174.9	5281.9
10°	3732.7	3775.6	3835.9	3954.6	4133.7	4338.0	4587.1	4910.2	5244.9	5272.2	5457.1
12.5°	3382.4	3401.9	3475.9	3635.4	3857.3	4145.3	4489.8	4892.7	5344.2	5377.3	5643.9
15°	3113.9	3139.2	3203.4	3347.4	3594.6	3964.3	4410.0	4886.8	5441.5	5488.2	5830.7
17.5°	3063.3	3078.8	3106.1	3203.4	3419.4	3820.3	4338.0	4884.9	5534.9	5591.3	6003.9
20°	3271.5	3257.9	3230.6	3220.9	3339.6	3709.4	4285.5	4900.4	5624.4	5688.6	6186.9
22.5°	3793.1	3810.6	3651.0	3462.2	3423.3	3691.9	4277.7	4974.4	5766.5	5842.4	6391.2
25°	4900.4	4766.2	4517.1	4065.5	3725.0	3798.9	4365.3	5149.6	5931.9	6015.6	6576.1
27.5°	6124.6	6083.7	5696.4	4953.0	4318.5	4024.7	4520.9	5283.8	5986.4	6072.0	6681.2
30°	7327.3	7376.0	6932.2	6111.0	5180.7	4443.1	4666.9	5334.4	6035.1	6124.6	6815.5
32.5°	8442.5	8500.9	8111.6	7298.1	6196.6	5167.1	4918.0	5531.0	6239.4	6330.9	7039.3
35°	9320.2	9328.0	9034.1	8386.0	7305.9	6046.7	5460.9	5875.5	6515.8	6622.8	7276.7
37.5°	10125.9	10114.2	9769.8	9211.2	8230.3	6920.6	6144.0	6272.5	6831.0	6942.0	7619.2
40°	10723.4	10731.2	10620.2	10094.8	9092.5	7728.2	6685.1	6644.2	7360.4	7533.6	8117.5
42.5°	11122.3	11194.4	11248.8	10982.2	10176.5	8722.7	7516.1	7440.2	8279.0	8423.0	8822.0
45°	11445.4	11573.9	11846.3	11832.7	11217.7	9943.0	8656.6	8500.9	9581.0	9734.7	9719.2
47.5°	11680.9	11811.3	12262.8	12535.3	12196.6	11126.2	10090.9	9956.6	11136.0	11303.3	10709.8
50°	11801.6	11957.2	12533.3	13060.7	12961.5	12266.7	11725.7	11733.4	13014.0	13175.5	11858.0
52.5°	11519.4	11721.8	12677.3	13627.1	13819.7	13358.5	13257.3	13514.2	14685.8	14824.0	12895.3
55°	10618.3	10873.2	12480.8	14109.7	14814.2	14646.9	14997.2	15388.3	16513.2	16602.7	13959.9
57.5°	10048.1	10318.6	11900.8	14520.4	16009.2	16266.1	16820.7	17106.8	18399.1	18626.8	15182.0
60°	9567.4	9779.5	11424.0	14607.9	17223.6	18247.3	18786.3	19082.2	20726.7	20874.6	16526.8
62.5°	8767.5	9010.8	10618.3	13996.8	17834.7	19833.4	20950.5	20818.1	22526.9	22630.0	17352.0
65°	7481.1	7502.5	8983.5	12461.3	17204.1	20862.9	22470.4	21915.8	23387.1	23457.1	17287.8
67.5°	5583.6	5789.8	6910.8	9795.1	14532.0	19983.2	22962.8	21945.0	22844.1	22649.5	15915.8
70°	3596.5	3754.2	4684.4	6792.1	10478.2	16676.7	21330.0	20440.6	20049.4	19617.4	13027.6
72.5°	1660.1	1862.5	2783.0	3880.7	6214.1	11879.4	17315.0	16606.6	14430.8	13364.3	8280.9
75°	724.0	774.6	1374.0	2047.4	2913.4	6282.2	11416.2	10308.8	6517.7	5953.3	3314.3
77.5°	441.8	474.9	720.1	1097.6	1144.3	2393.8	6149.9	4497.6	2014.3	1776.9	899.1
80°	299.7	336.7	523.5	574.1	391.2	667.5	2308.2	1200.8	406.7	389.2	192.7
82.5°	146.0	184.9	387.3	321.1	169.3	214.1	671.4	256.9	118.7	110.9	68.1
85°	21.4	37.0	218.0	210.2	75.9	50.6	118.7	64.2	40.9	38.9	31.1
87.5°	0.0	0.0	74.0	33.1	7.8	7.8	13.6	13.6	15.6	13.6	15.6
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°	5042.5	5042.5	5042.5	5042.5	5042.5	5042.5	5042.5	5042.5	5042.5	5042.5	5042.5
2.5°	5081.4	5091.2	5054.2	5001.6	4945.2	4888.8	4809.0	4737.0	4694.2	4719.5	4657.2
5°	5172.9	5165.1	5067.8	4908.2	4696.1	4441.2	4188.2	3972.1	3902.1	3797.0	3785.3
7.5°	5299.4	5278.0	5071.7	4705.8	4227.1	3748.3	3281.2	2971.8	2794.7	2644.8	2648.7
10°	5476.5	5414.2	5026.9	4349.7	3561.5	2839.5	2243.9	1835.2	1658.1	1601.7	1556.9
12.5°	5659.5	5538.8	4902.4	3869.0	2773.3	1940.3	1364.3	1115.2	1006.2	971.1	967.2
15°	5822.9	5632.2	4684.4	3291.0	2016.2	1239.7	930.3	848.5	834.9	836.9	834.9
17.5°	5984.5	5706.2	4382.8	2677.9	1370.1	889.4	799.9	780.4	786.3	794.0	792.1
20°	6118.7	5721.7	3997.4	2043.5	969.2	780.4	751.2	747.3	753.2	759.0	759.0
22.5°	6264.7	5733.4	3540.1	1414.9	792.1	725.9	710.4	710.4	718.1	725.9	727.9
25°	6373.7	5669.2	2993.2	1015.9	698.7	673.4	665.6	667.5	675.3	679.2	677.3
27.5°	6391.2	5488.2	2413.2	778.5	634.5	609.2	601.4	609.2	599.4	605.3	601.4
30°	6406.8	5258.5	1825.5	655.9	576.1	537.1	525.5	513.8	506.0	496.3	494.3
32.5°	6455.4	4988.0	1333.1	589.7	521.6	478.8	451.5	418.4	393.1	385.3	383.4
35°	6476.8	4663.0	978.9	537.1	472.9	426.2	377.6	330.8	293.9	280.2	290.0
37.5°	6558.6	4347.7	759.0	498.2	430.1	371.7	309.4	251.1	216.0	208.2	212.1
40°	6726.0	4005.2	636.4	465.1	393.1	321.1	245.2	188.8	165.4	157.6	155.7
42.5°	6994.5	3664.6	566.3	434.0	356.1	270.5	192.7	147.9	128.4	122.6	122.6
45°	7321.5	3337.7	517.7	400.9	317.2	218.0	151.8	118.7	107.0	103.1	103.1
47.5°	7751.6	3051.6	476.8	367.8	274.4	173.2	122.6	103.1	95.4	97.3	99.3
50°	8187.5	2839.5	432.0	330.8	225.8	142.1	105.1	91.5	89.5	91.5	91.5
52.5°	8516.4	2714.9	371.7	280.2	177.1	118.7	93.4	85.6	83.7	79.8	79.8
55°	8960.2	2687.7	295.8	227.7	140.1	99.3	83.7	77.8	72.0	68.1	66.2
57.5°	9530.4	2718.8	227.7	177.1	109.0	81.7	74.0	64.2	56.4	48.7	48.7
60°	9884.6	2648.7	177.1	136.2	79.8	66.2	56.4	46.7	37.0	31.1	29.2
62.5°	9771.7	2352.9	140.1	101.2	56.4	48.7	37.0	31.1	21.4	15.6	13.6
65°	9189.8	1899.5	112.9	70.1	40.9	29.2	19.5	19.5	9.7	1.9	0.0
67.5°	8043.5	1407.1	89.5	46.7	23.4	13.6	9.7	5.8	0.0	0.0	0.0
70°	6546.9	1015.9	70.1	29.2	13.6	9.7	3.9	1.9	0.0	0.0	0.0
72.5°	4157.0	581.9	54.5	17.5	9.7	3.9	0.0	0.0	0.0	0.0	0.0
75°	1607.5	227.7	37.0	11.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	455.4	107.0	21.4	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	118.7	46.7	11.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	56.4	19.5	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	33.1	7.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.6	1.9	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)