

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: P459014

Luminaire Tested: **GALN-SA5B-735-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459014
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21959 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

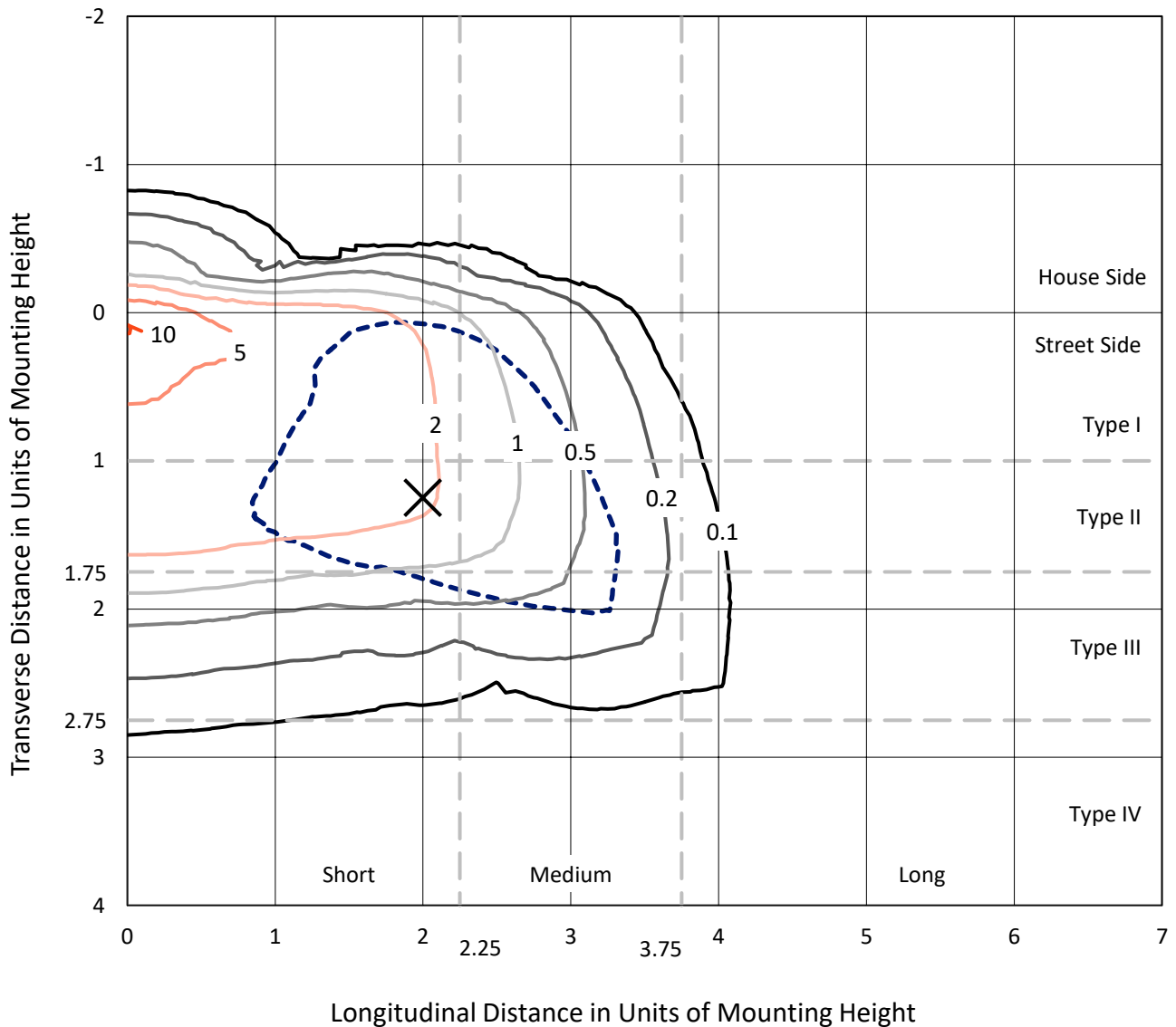
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459014
 CATALOG NUMBER: GALN-SA5B-735-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

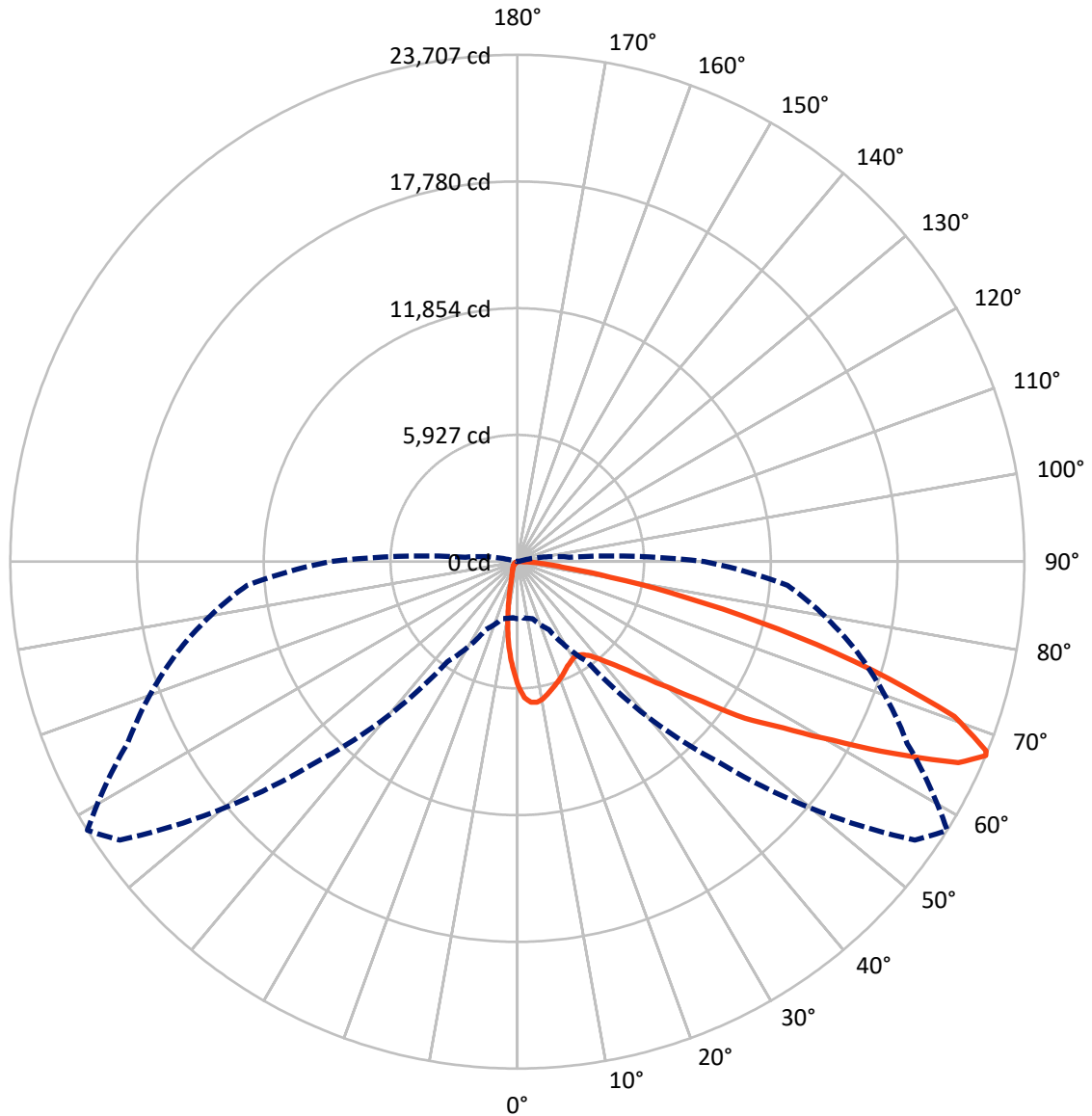
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Short - N/A

REPORT NUMBER: P459014
CATALOG NUMBER: GALN-SA5B-735-U-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P459014

CATALOG NUMBER: GALN-SA5B-735-U-SL3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1584.7	0.0	1584.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	20374.3	0.0	20374.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	21959.0	0.0	21959.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.4	2.2
10°-20°	1020.2	4.6
20°-30°	1382.5	6.3
30°-40°	1917.4	8.7
40°-50°	3058.0	13.9
50°-60°	5286.0	24.1
60°-70°	6038.3	27.5
70°-80°	2517.4	11.5
80°-90°	266.9	1.2
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°	21959.0	100.0
0°-180°	21959.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459014

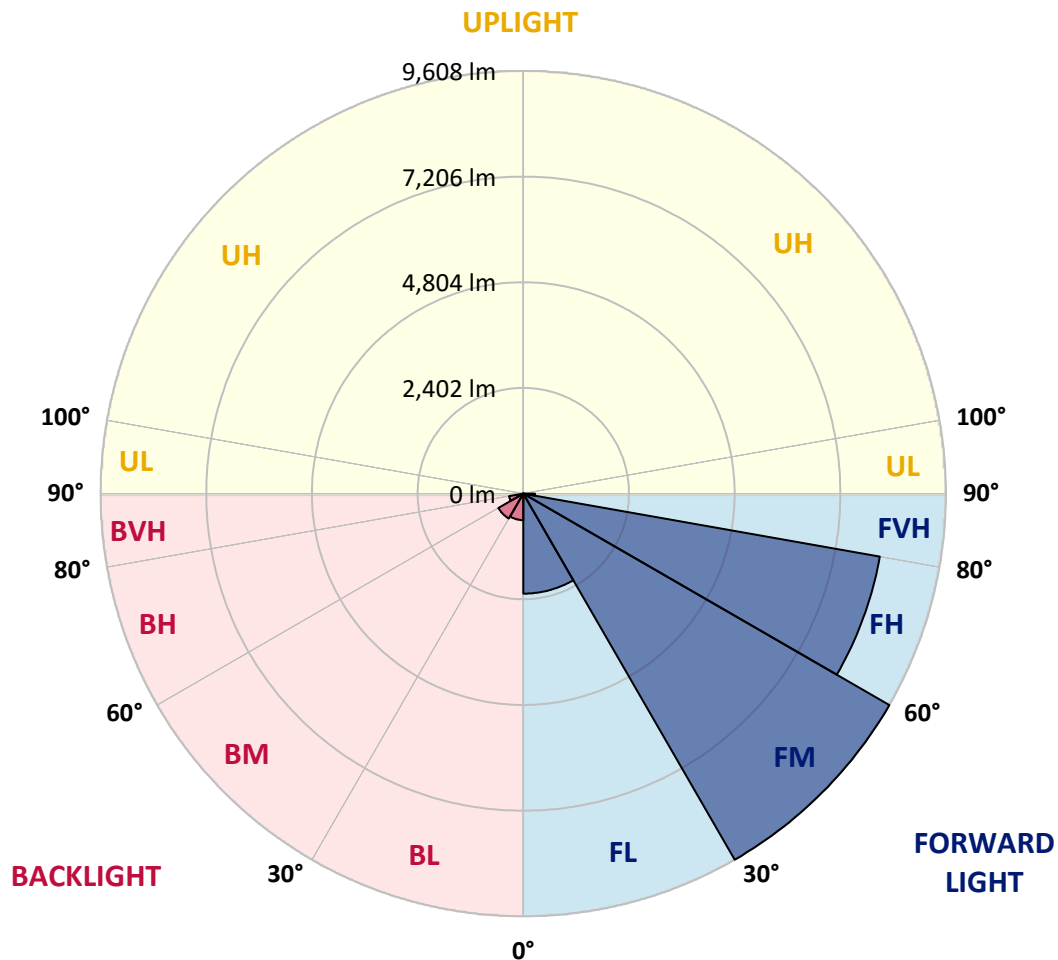
CATALOG NUMBER: GALN-SA5B-735-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2273.3	10.4			
FM	(30°-60°)	9608.0	43.8			
FH	(60°-80°)	8228.1	37.5			G4/12000
FVH	(80°-90°)	265.0	1.2			G3/500
BL	(0°-30°)	601.7	2.7	B2/1000		
BM	(30°-60°)	653.4	3.0	B1/1000		
BH	(60°-80°)	327.6	1.5	B1/500		G1/500
BVH	(80°-90°)	1.9	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





REPORT NUMBER: P459014

CATALOG NUMBER: GALN-SA5B-735-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5821.1	5821.1	5821.1	5821.1	5821.1	5821.1	5821.1	5821.1	5821.1	5821.1	5821.1
2.5°	6755.9	6766.1	6728.0	6697.2	6617.9	6532.8	6419.8	6359.7	6256.9	6079.4	5882.8
5°	6914.3	6927.5	6921.7	6914.3	6883.5	6801.3	6657.5	6604.7	6453.6	6164.5	5809.4
7.5°	6562.2	6610.6	6616.5	6673.7	6728.0	6735.3	6681.0	6641.4	6502.0	6163.0	5678.8
10°	6095.5	6127.8	6174.8	6240.8	6371.4	6480.0	6532.8	6526.9	6446.2	6117.5	5526.2
12.5°	5624.5	5642.1	5714.0	5827.0	5986.9	6171.8	6312.7	6340.6	6342.1	6063.2	5398.5
15°	5219.5	5212.2	5267.9	5398.5	5623.0	5854.9	6107.3	6151.3	6221.7	6010.4	5279.7
17.5°	4873.2	4911.3	4920.2	5064.0	5270.9	5571.7	5893.0	5970.8	6111.7	5964.9	5181.3
20°	4659.0	4679.5	4698.6	4779.3	4965.6	5282.6	5692.0	5799.1	6009.0	5923.8	5071.3
22.5°	4595.9	4609.1	4592.9	4617.9	4749.9	5031.7	5473.4	5615.7	5910.6	5885.7	4981.8
25°	4644.3	4657.5	4619.3	4590.0	4635.5	4827.7	5262.1	5435.2	5831.4	5878.4	4914.3
27.5°	4761.7	4786.6	4733.8	4681.0	4654.6	4717.7	5096.2	5297.3	5777.1	5913.6	4883.5
30°	4945.1	4959.8	4920.2	4855.6	4795.4	4732.3	5009.7	5201.9	5762.4	5995.7	4880.5
32.5°	5144.7	5175.5	5153.5	5110.9	5033.1	4883.5	5034.6	5204.8	5797.7	6114.6	4917.2
35°	5391.2	5426.4	5446.9	5438.1	5338.4	5152.0	5193.1	5336.9	5891.6	6333.2	5017.0
37.5°	5633.3	5664.1	5780.0	5819.7	5731.6	5555.5	5501.2	5596.6	6098.5	6619.4	5197.5
40°	5910.6	5951.7	6114.6	6265.7	6223.2	6038.3	5938.5	6017.8	6415.4	7050.8	5539.4
42.5°	6176.2	6249.6	6497.6	6764.7	6804.3	6597.4	6531.3	6557.8	6885.0	7671.5	6016.3
45°	6553.4	6622.3	6942.2	7304.7	7491.0	7329.6	7262.1	7257.7	7529.2	8544.6	6789.6
47.5°	7097.8	7159.4	7536.5	7894.5	8226.2	8248.2	8120.5	8164.5	8339.2	9565.9	7737.5
50°	7765.4	7910.7	8158.7	8531.4	8974.5	9332.6	9372.2	9313.5	9463.2	10748.6	8876.2
52.5°	8735.4	8791.1	9018.6	9325.3	9844.7	10452.2	10923.2	10842.5	10795.6	11875.6	10026.7
55°	9458.8	9533.6	9887.3	10308.4	11070.0	11871.2	12892.5	12920.4	12327.5	12958.5	11152.2
57.5°	9240.1	9354.6	9890.2	10736.9	12411.2	13875.6	14635.7	14654.8	13745.0	14010.6	12422.9
60°	8117.6	8171.9	8939.3	10069.2	12525.6	16047.4	17108.3	16954.2	15187.5	15187.5	13545.5
62.5°	5756.6	5841.7	6463.8	8126.4	11312.1	16801.6	20069.5	19751.0	17174.3	16313.0	14214.6
65°	3678.7	3596.6	4008.9	5130.0	8427.2	15687.8	22647.7	22666.7	19043.8	16763.4	13849.2
67°	2664.8	2632.5	2751.4	3507.1	5714.0	13187.4	22702.0	23707.1	20117.9	16478.8	12681.2
67.5°	2437.3	2462.3	2548.9	3163.7	5191.6	12000.3	22455.4	23645.5	20360.0	16307.1	12258.6
70°	1847.4	1804.9	1898.8	2237.8	3112.3	7570.3	19316.7	21686.5	20059.2	14603.4	9794.8
72.5°	1358.8	1354.4	1485.0	1829.8	2396.2	4032.4	14500.7	17388.6	16387.8	11119.9	6167.4
75°	917.1	958.2	1166.6	1529.0	2171.7	2614.9	9885.8	12615.1	11376.7	6314.2	2521.0
77.5°	522.4	525.3	751.3	1228.2	1950.2	2104.2	5857.8	8036.9	6022.2	2099.8	748.4
80°	226.0	248.0	372.7	892.2	1617.1	1863.6	3358.9	4416.8	2435.9	444.6	242.1
82.5°	83.6	98.3	164.3	548.8	1179.8	1534.9	2029.4	2108.6	826.1	157.0	151.1
85°	0.0	2.9	60.2	256.8	614.8	685.3	1355.9	1250.2	365.4	74.8	98.3
87.5°	0.0	0.0	0.0	26.4	80.7	255.3	421.1	469.6	88.0	26.4	23.5
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: P459014
 CATALOG NUMBER: GALN-SA5B-735-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5821.1	5821.1	5821.1	5821.1	5821.1	5821.1	5821.1	5821.1	5821.1	5821.1	5821.1
2.5°	5777.1	5681.7	5442.5	5203.4	5025.8	4877.6	4654.6	4532.8	4468.2	4372.8	4378.7
5°	5631.8	5438.1	5017.0	4581.2	4229.0	3885.6	3474.8	3309.0	3169.6	3090.3	3037.5
7.5°	5416.1	5130.0	4506.3	3925.3	3383.8	2783.6	2333.1	2032.3	1829.8	1755.0	1683.1
10°	5179.9	4799.8	3988.4	3182.8	2431.5	1812.2	1430.7	1154.8	1056.5	965.5	974.3
12.5°	4961.2	4499.0	3512.9	2512.2	1703.6	1151.9	898.0	785.1	752.8	742.5	742.5
15°	4782.2	4211.4	3002.3	1888.5	1168.0	827.6	719.0	688.2	676.5	673.5	673.5
17.5°	4591.5	3938.5	2541.5	1395.5	849.6	692.6	655.9	635.4	631.0	628.0	628.0
20°	4421.2	3664.1	2104.2	1038.9	686.7	623.6	600.2	587.0	582.6	579.6	581.1
22.5°	4259.8	3420.5	1693.4	785.1	604.6	567.9	544.4	531.2	522.4	515.1	516.5
25°	4116.0	3185.7	1361.7	642.7	544.4	512.1	488.6	469.6	450.5	441.7	440.2
27.5°	4014.8	2980.3	1060.9	550.3	490.1	454.9	425.5	402.1	377.1	363.9	361.0
30°	3931.1	2771.9	839.3	485.7	435.8	402.1	365.4	331.6	305.2	292.0	286.1
32.5°	3876.8	2573.8	661.8	432.9	390.3	349.2	308.2	274.4	245.1	231.8	228.9
35°	3868.0	2408.0	541.5	388.9	349.2	305.2	262.7	226.0	201.0	187.8	184.9
37.5°	3931.1	2280.3	453.4	353.6	315.5	267.1	220.1	186.4	164.3	154.1	152.6
40°	4099.9	2199.6	393.3	324.3	284.7	231.8	187.8	158.5	136.5	126.2	126.2
42.5°	4421.2	2202.5	353.6	296.4	253.9	198.1	159.9	132.1	113.0	104.2	101.2
45°	4923.1	2302.3	319.9	268.5	224.5	171.7	136.5	108.6	89.5	82.2	82.2
47.5°	5595.2	2500.4	290.5	240.7	198.1	146.7	115.9	88.0	71.9	64.6	64.6
50°	6474.1	2818.9	265.6	217.2	176.1	126.2	93.9	71.9	55.8	49.9	48.4
52.5°	7392.7	3212.1	236.2	196.6	151.1	107.1	76.3	55.8	42.6	38.2	36.7
55°	8406.7	3596.6	208.4	176.1	123.3	89.5	60.2	44.0	30.8	26.4	26.4
57.5°	9429.4	3973.7	174.6	146.7	96.8	66.0	47.0	32.3	20.5	16.1	16.1
60°	10295.2	4095.5	148.2	118.9	73.4	47.0	33.7	20.5	11.7	7.3	7.3
62.5°	10414.1	3684.6	124.7	91.0	52.8	32.3	17.6	11.7	4.4	2.9	2.9
65°	9768.4	2993.5	104.2	69.0	35.2	16.1	7.3	4.4	1.5	0.0	0.0
67°	8753.0	2427.1	85.1	51.4	24.9	10.3	4.4	1.5	0.0	0.0	0.0
67.5°	8493.2	2314.1	82.2	48.4	22.0	8.8	2.9	1.5	0.0	0.0	0.0
70°	6664.9	1733.0	58.7	29.3	13.2	5.9	0.0	0.0	0.0	0.0	0.0
72.5°	4142.4	980.2	42.6	17.6	8.8	2.9	0.0	0.0	0.0	0.0	0.0
75°	1565.7	343.4	29.3	11.7	5.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	487.2	130.6	17.6	8.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	164.3	49.9	11.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	101.2	20.5	7.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	63.1	8.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.7	2.9	1.5	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)