

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: P459248

Luminaire Tested: **GALN-SA7B-735-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459248
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-SA7B-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA 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: 30369 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

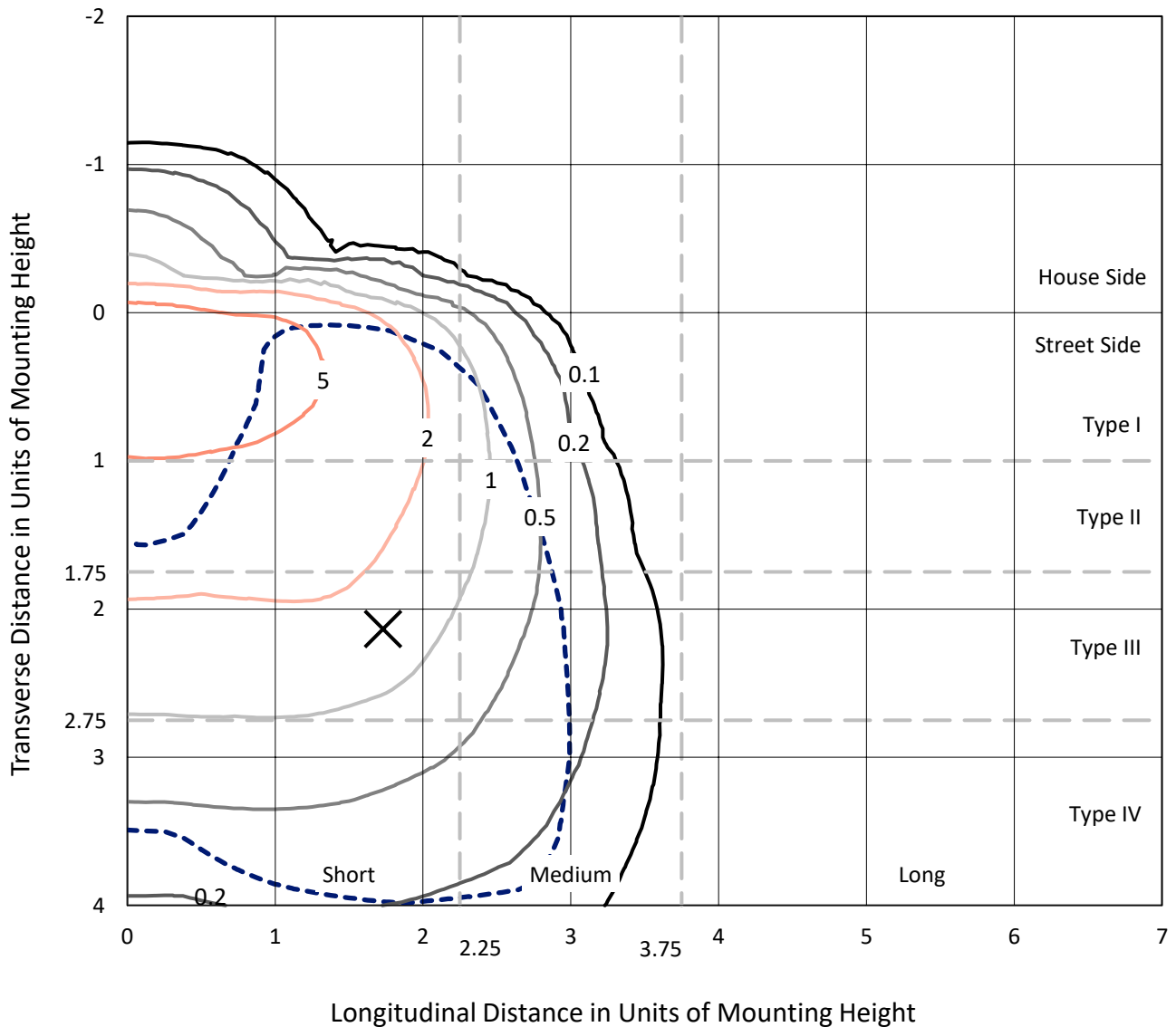
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459248
 CATALOG NUMBER: GALN-SA7B-735-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

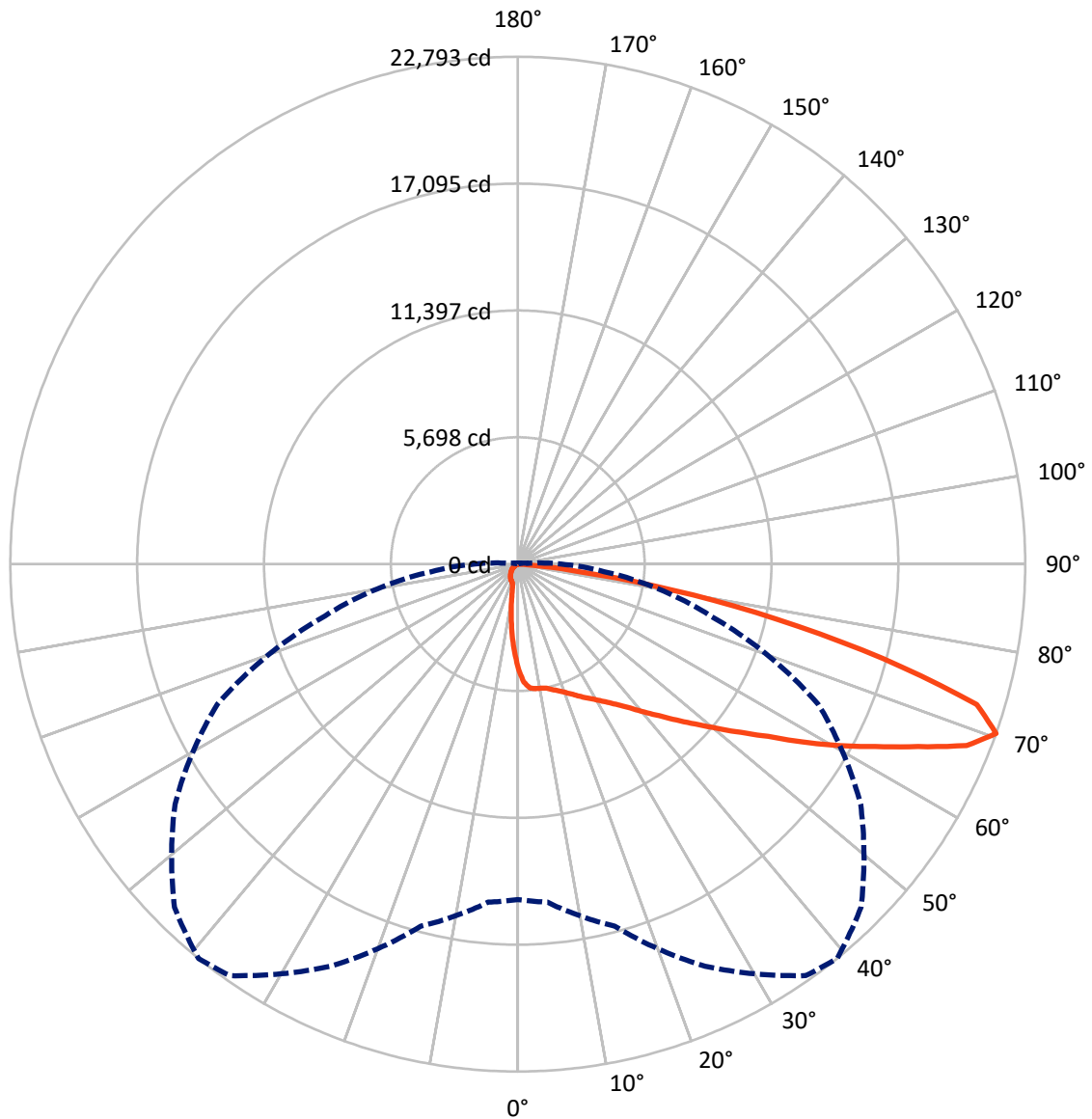
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type IV - Short - N/A

REPORT NUMBER: P459248
CATALOG NUMBER: GALN-SA7B-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
House Side	Lumens	1980.2	0.0	1980.2
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	28388.8	0.0	28388.8
	% Fixture	93.5	0.0	93.5
Total	Lumens	30369.0	0.0	30369.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.2	1.3
10°-20°	1050.3	3.5
20°-30°	1759.6	5.8
30°-40°	2728.9	9.0
40°-50°	4324.5	14.2
50°-60°	6339.0	20.9
60°-70°	8125.1	26.8
70°-80°	5105.5	16.8
80°-90°	531.9	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°	30369.0	100.0
0°-180°	30369.0	100.0



REPORT NUMBER: P459248

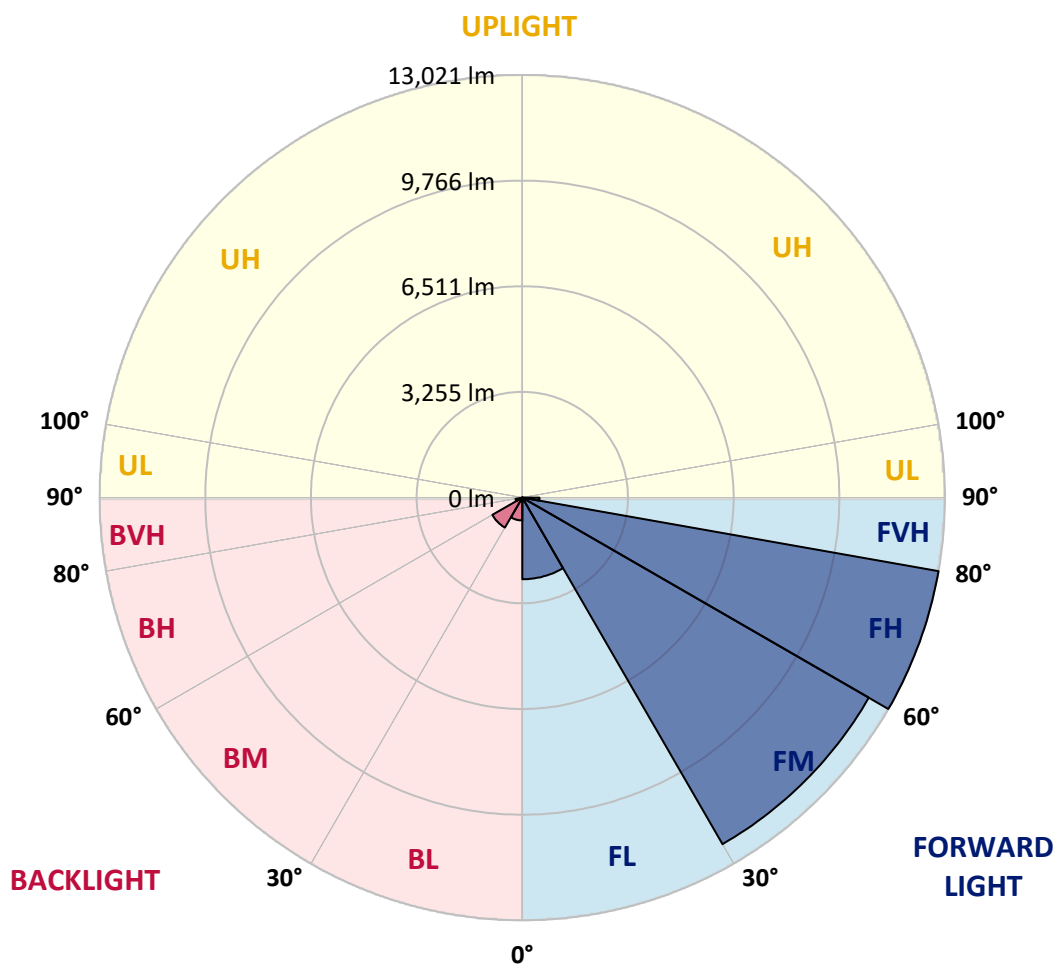
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2512.9	8.3			
FM	(30°-60°)	12326.7	40.6			
FH	(60°-80°)	13021.2	42.9			G5
FVH	(80°-90°)	528.0	1.7			G4/750
BL	(0°-30°)	701.2	2.3	B2/1000		
BM	(30°-60°)	1065.7	3.5	B2/2500		
BH	(60°-80°)	209.4	0.7	B1/500		G1/500
BVH	(80°-90°)	3.9	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-G5

Type IV Short





REPORT NUMBER: P459248

CATALOG NUMBER: GALN-SA7B-735-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4738.6	4738.6	4738.6	4738.6	4738.6	4738.6	4738.6	4738.6	4738.6	4738.6	4738.6
2.5°	5475.3	5456.9	5432.5	5403.9	5322.3	5308.0	5259.0	5154.9	5030.4	4928.4	4787.6
5°	5734.5	5744.7	5726.3	5675.3	5616.1	5581.4	5520.2	5359.0	5197.8	4991.7	4761.1
7.5°	5793.7	5814.1	5791.6	5742.7	5685.5	5648.8	5599.8	5461.0	5273.3	5038.6	4722.3
10°	5787.5	5812.0	5797.8	5752.9	5705.9	5671.2	5618.2	5508.0	5357.0	5110.0	4734.5
12.5°	5777.3	5810.0	5808.0	5785.5	5746.7	5720.2	5687.6	5589.6	5448.8	5214.1	4801.9
15°	5748.8	5789.6	5826.3	5844.7	5846.7	5846.7	5805.9	5701.8	5567.1	5350.8	4889.6
17.5°	5761.0	5808.0	5899.8	5952.8	5989.6	5985.5	5942.6	5830.4	5681.4	5491.6	4981.5
20°	5836.5	5899.8	6028.4	6134.5	6171.2	6159.0	6101.8	5971.2	5801.8	5612.0	5071.2
22.5°	6022.2	6079.4	6240.6	6365.1	6391.6	6359.0	6277.3	6099.8	5946.7	5742.7	5179.4
25°	6299.8	6367.1	6516.1	6610.0	6610.0	6591.6	6477.3	6269.2	6110.0	5924.3	5320.2
27.5°	6636.5	6693.6	6840.6	6924.2	6875.3	6822.2	6707.9	6456.9	6303.9	6152.8	5489.6
30°	6977.3	7014.0	7169.1	7205.9	7154.8	7087.5	6965.1	6714.0	6579.4	6463.0	5734.5
32.5°	7299.7	7379.3	7507.9	7499.7	7430.3	7397.7	7285.5	7018.1	6942.6	6930.4	6077.3
35°	7622.2	7683.4	7797.7	7826.3	7765.0	7758.9	7677.3	7479.3	7481.4	7561.0	6612.0
37.5°	7899.7	7954.8	8089.5	8152.8	8165.0	8195.6	8163.0	8032.4	8218.1	8436.4	7320.1
40°	8132.4	8209.9	8381.3	8491.5	8618.1	8730.3	8736.4	8765.0	9138.4	9513.9	8244.6
42.5°	8314.0	8422.1	8671.1	8875.2	9165.0	9307.8	9422.1	9579.2	10207.8	10769.0	9334.4
45°	8550.7	8675.2	8985.4	9305.8	9758.8	9993.5	10152.7	10573.1	11464.9	12230.2	10452.7
47.5°	8942.5	9007.8	9324.2	9791.5	10387.4	10722.1	11032.3	11669.0	12813.8	13499.5	11383.3
50°	9446.6	9489.5	9728.2	10377.2	11148.6	11589.4	12154.7	12903.6	14213.8	14552.5	11909.8
52.5°	10003.7	10018.0	10197.6	11022.1	12001.6	12556.7	13189.3	14113.8	15354.6	15303.5	12258.7
55°	10650.6	10630.2	10783.3	11722.0	13011.8	13646.4	14383.2	15352.5	16344.3	15836.2	12458.7
57.5°	11391.4	11336.3	11485.3	12650.6	14305.6	15064.8	15813.7	16421.9	17111.6	16283.1	12554.7
60°	12166.9	12056.7	12234.3	13693.4	15830.0	16550.4	17172.9	17336.1	17919.8	16638.2	12389.4
62.5°	12785.3	12787.3	13117.9	14803.6	17397.3	18027.9	18358.5	18505.5	18615.7	16560.6	11520.0
65°	13750.5	13783.2	14311.7	16344.3	19211.6	19758.5	19985.0	19507.5	18646.3	15597.4	10213.9
67.5°	14746.4	14850.5	15817.8	18466.7	21307.4	21748.2	21456.4	19701.3	17813.6	13399.5	7744.6
70°	15070.9	15242.3	16836.1	19927.9	22564.5	22793.1	21805.3	18797.3	14891.3	8958.9	3897.8
72.5°	13809.7	14087.3	16250.4	19395.2	21762.5	21564.5	19509.5	15764.7	9467.0	3401.9	1189.8
75°	9738.4	9860.9	13505.6	16089.2	17503.5	16942.2	14840.3	10162.9	3893.7	955.1	408.1
77.5°	5028.4	4969.2	8032.4	10675.1	12483.2	11901.6	9718.0	5261.0	1475.5	397.9	253.1
80°	2599.9	2642.8	3475.4	5593.7	7620.1	7012.0	5181.4	2438.7	785.7	220.4	193.9
82.5°	1457.1	1367.3	1997.9	2442.8	3563.1	2793.8	1987.7	1726.5	342.8	132.6	183.7
85°	265.3	277.5	1095.9	1320.4	1236.7	785.7	640.8	1153.0	100.0	73.5	128.6
87.5°	4.1	4.1	212.2	379.6	240.8	110.2	202.0	165.3	20.4	28.6	22.4
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4738.6	4738.6	4738.6	4738.6	4738.6	4738.6	4738.6	4738.6	4738.6	4738.6	4738.6
2.5°	4716.2	4638.6	4493.7	4350.9	4169.2	4020.3	3920.3	3816.2	3710.1	3718.2	3742.7
5°	4634.5	4499.8	4214.1	3912.1	3622.3	3361.1	3104.0	2873.4	2779.5	2693.8	2697.9
7.5°	4552.9	4363.1	3944.8	3471.3	3032.5	2587.7	2265.2	1999.9	1859.1	1753.0	1722.4
10°	4516.2	4265.2	3697.8	3046.8	2424.4	1938.7	1524.4	1308.1	1140.8	1087.7	1102.0
12.5°	4532.5	4216.2	3475.4	2663.2	1922.4	1351.0	1061.2	951.0	914.3	908.1	904.0
15°	4563.1	4181.5	3257.0	2238.7	1412.2	1004.0	891.8	871.4	867.3	863.2	865.3
17.5°	4603.9	4150.9	3024.4	1840.8	1083.6	877.5	844.9	834.7	832.6	832.6	832.6
20°	4644.7	4116.2	2765.2	1485.7	904.0	828.5	808.1	802.0	800.0	800.0	797.9
22.5°	4691.7	4085.6	2502.0	1167.3	832.6	793.8	775.5	771.4	769.4	767.3	767.3
25°	4759.0	4046.8	2222.4	955.1	787.7	761.2	742.8	738.7	736.7	728.5	730.6
27.5°	4848.8	4018.2	1934.6	824.5	746.9	720.4	708.1	702.0	697.9	691.8	693.9
30°	4971.3	3993.7	1628.5	753.0	700.0	677.5	665.3	661.2	657.1	651.0	651.0
32.5°	5183.5	4003.9	1306.1	695.9	657.1	630.6	618.3	614.3	610.2	604.1	604.1
35°	5501.8	4063.1	1044.9	646.9	606.1	579.6	567.3	567.3	561.2	553.0	551.0
37.5°	6022.2	4214.1	838.7	600.0	557.1	532.6	518.3	514.3	508.1	495.9	493.9
40°	6636.5	4448.8	706.1	553.0	512.2	487.7	475.5	463.2	446.9	434.7	432.6
42.5°	7407.9	4689.6	612.2	506.1	469.4	446.9	432.6	412.2	387.7	371.4	369.4
45°	8212.0	4910.0	549.0	463.2	428.6	410.2	393.9	361.2	330.6	310.2	308.2
47.5°	8811.9	4950.8	497.9	422.4	393.9	375.5	353.0	312.2	271.4	253.1	246.9
50°	9095.6	4752.9	444.9	381.6	359.2	338.8	310.2	263.3	218.4	195.9	191.8
52.5°	9195.6	4410.0	402.0	344.9	324.5	300.0	265.3	212.2	171.4	149.0	146.9
55°	9154.8	3977.4	363.3	310.2	283.7	255.1	220.4	169.4	126.5	108.2	104.1
57.5°	8940.5	3426.4	324.5	275.5	242.8	214.3	175.5	126.5	85.7	69.4	67.3
60°	8363.0	2675.4	285.7	236.7	206.1	175.5	138.8	89.8	53.1	38.8	38.8
62.5°	7387.5	1985.6	249.0	198.0	173.5	140.8	98.0	57.1	28.6	20.4	18.4
65°	6173.2	1465.3	208.2	167.3	144.9	110.2	69.4	34.7	14.3	6.1	4.1
67.5°	4308.0	904.0	173.5	136.7	118.4	79.6	42.9	14.3	6.1	0.0	0.0
70°	1957.1	430.6	132.6	104.1	89.8	57.1	22.4	8.2	4.1	0.0	0.0
72.5°	608.1	226.5	93.9	75.5	61.2	36.7	12.2	6.1	4.1	0.0	0.0
75°	281.6	144.9	59.2	40.8	34.7	18.4	8.2	4.1	2.0	0.0	0.0
77.5°	210.2	112.2	34.7	22.4	18.4	12.2	6.1	4.1	2.0	0.0	0.0
80°	183.7	57.1	20.4	14.3	10.2	8.2	4.1	2.0	0.0	0.0	0.0
82.5°	165.3	28.6	12.2	8.2	6.1	4.1	2.0	2.0	0.0	0.0	0.0
85°	89.8	16.3	8.2	6.1	4.1	2.0	2.0	0.0	0.0	0.0	0.0
87.5°	16.3	8.2	6.1	4.1	4.1	2.0	2.0	2.0	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)