

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: P456000

Luminaire Tested: **GALN-SA7B-727-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456000
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-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 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: 27265 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

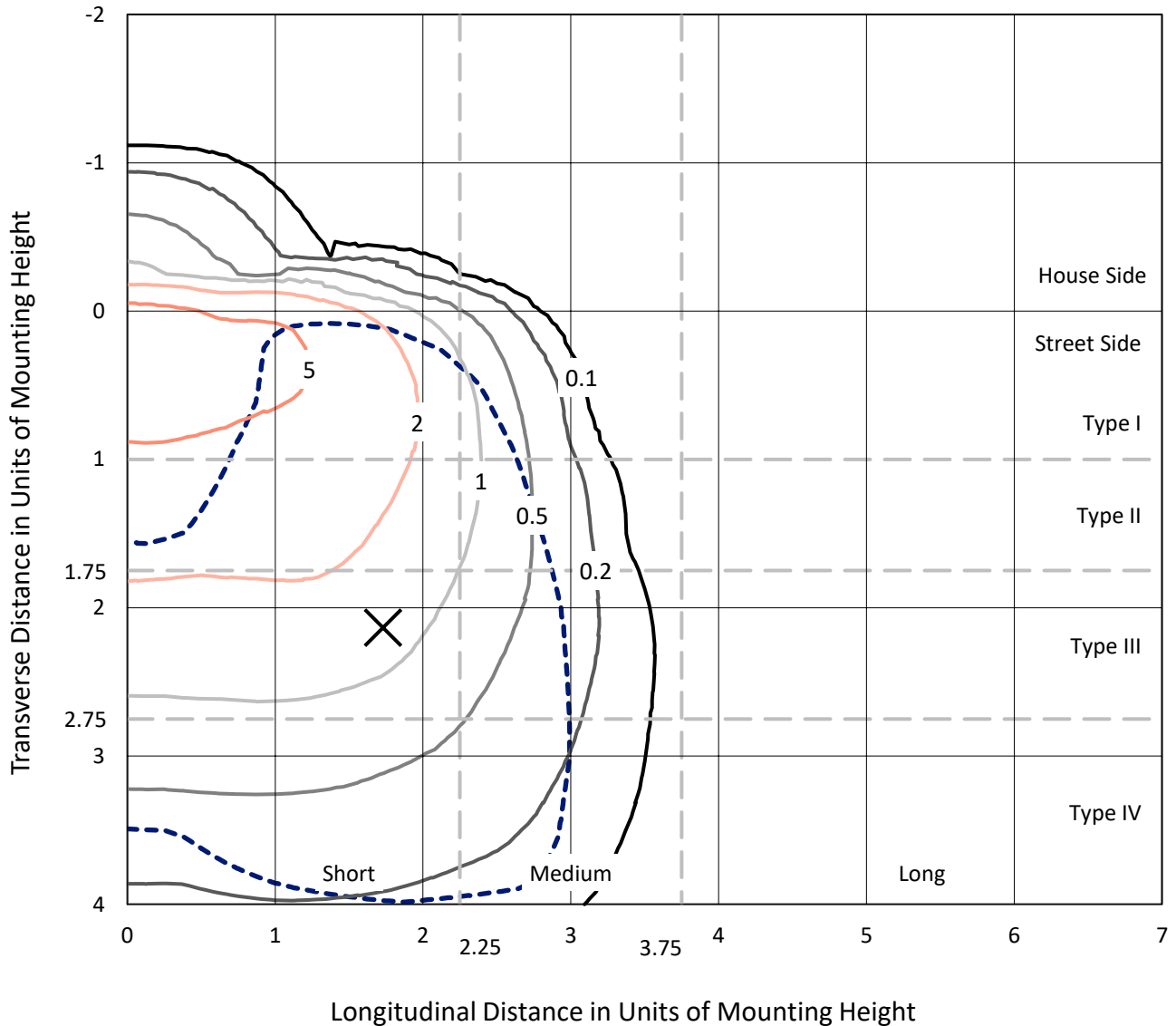
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456000
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Iso-Footcandle Lines of Horizontal Illumination

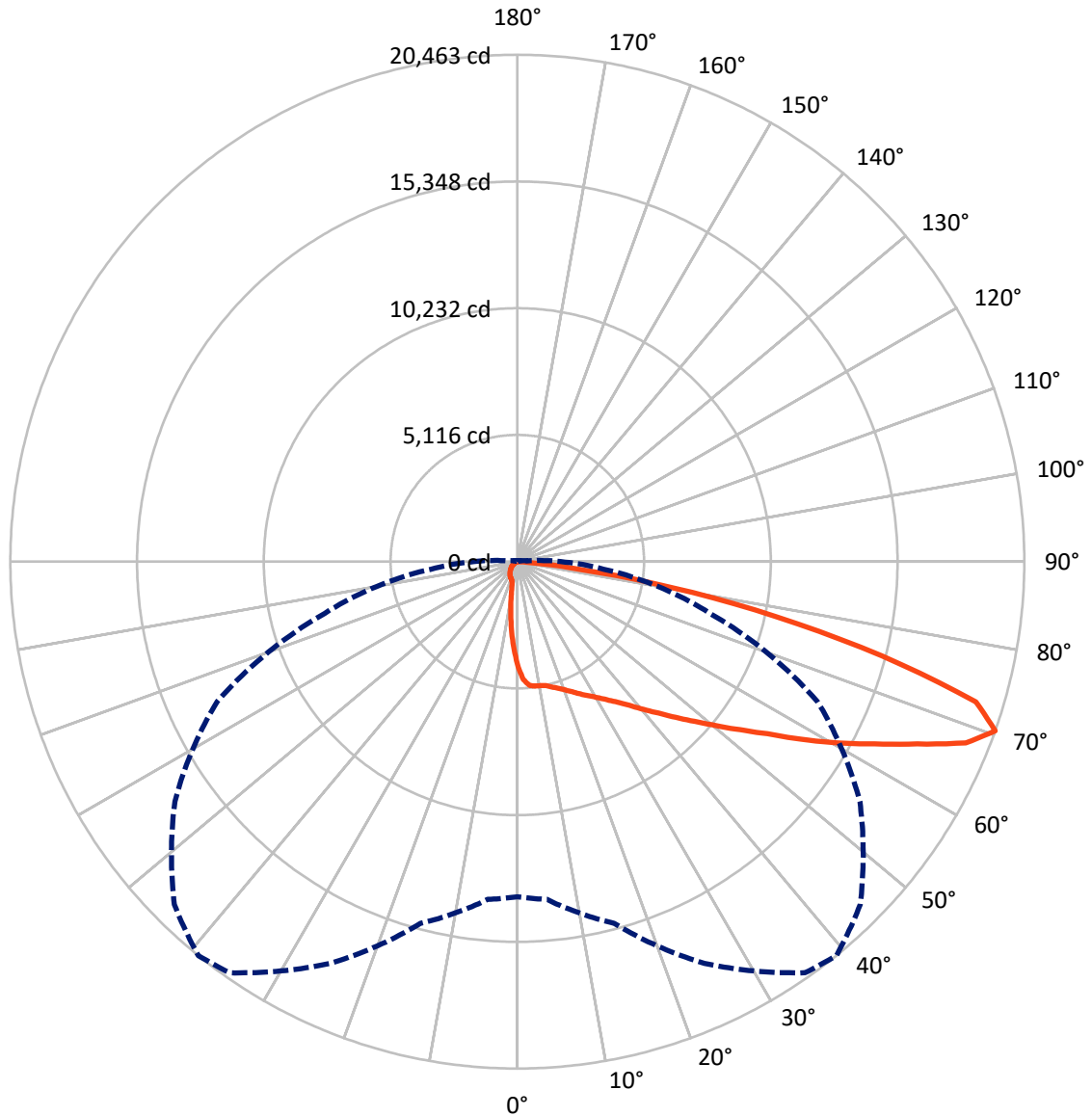
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P456000
CATALOG NUMBER: GALN-SA7B-727-U-SL4-HSS

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GALN-SA7B-727-U-SL4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1777.8	0.0	1777.8
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	25487.2	0.0	25487.2
	% Fixture	93.5	0.0	93.5
Total	Lumens	27265.0	0.0	27265.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.9	1.3
10°-20°	943.0	3.5
20°-30°	1579.7	5.8
30°-40°	2450.0	9.0
40°-50°	3882.5	14.2
50°-60°	5691.1	20.9
60°-70°	7294.6	26.8
70°-80°	4583.7	16.8
80°-90°	477.5	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°	27265.0	100.0
0°-180°	27265.0	100.0

Coefficient of Utilization

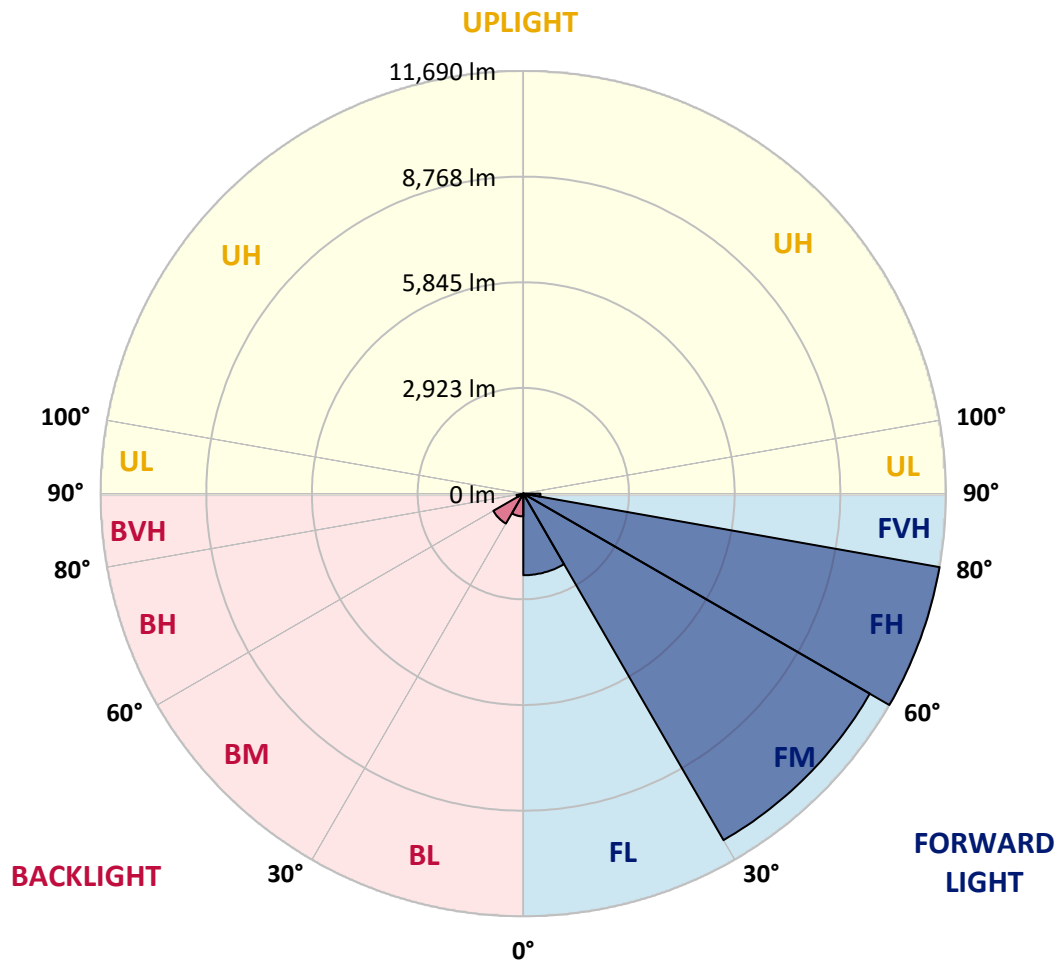


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2256.0	8.3			
FM (30°-60°)	11066.8	40.6			
FH (60°-80°)	11690.3	42.9			G4/12000
FVH (80°-90°)	474.0	1.7			G3/500
BL (0°-30°)	629.5	2.3	B2/1000		
BM (30°-60°)	956.8	3.5	B1/1000		
BH (60°-80°)	188.0	0.7	B1/500		G1/500
BVH (80°-90°)	3.5	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 IV Short





REPORT NUMBER: P456000

CATALOG NUMBER: GALN-SA7B-727-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4254.3	4254.3	4254.3	4254.3	4254.3	4254.3	4254.3	4254.3	4254.3	4254.3	4254.3
2.5°	4915.7	4899.2	4877.2	4851.6	4778.3	4765.4	4721.5	4628.0	4516.3	4424.7	4298.2
5°	5148.4	5157.5	5141.0	5095.2	5042.1	5011.0	4956.0	4811.3	4666.5	4481.5	4274.4
7.5°	5201.5	5219.8	5199.7	5155.7	5104.4	5071.4	5027.4	4902.9	4734.3	4523.6	4239.6
10°	5196.0	5218.0	5205.2	5164.9	5122.7	5091.6	5043.9	4945.0	4809.4	4587.7	4250.6
12.5°	5186.8	5216.2	5214.3	5194.2	5159.4	5135.5	5106.2	5018.3	4891.9	4681.2	4311.1
15°	5161.2	5197.8	5230.8	5247.3	5249.1	5249.1	5212.5	5119.1	4998.1	4803.9	4389.9
17.5°	5172.2	5214.3	5296.8	5344.4	5377.4	5373.7	5335.2	5234.5	5100.7	4930.3	4472.3
20°	5240.0	5296.8	5412.2	5507.5	5540.5	5529.5	5478.2	5360.9	5208.8	5038.4	4552.9
22.5°	5406.7	5458.0	5602.7	5714.5	5738.3	5709.0	5635.7	5476.3	5338.9	5155.7	4650.0
25°	5655.9	5716.3	5850.1	5934.4	5934.4	5917.9	5815.3	5628.4	5485.5	5318.8	4776.4
27.5°	5958.2	6009.5	6141.4	6216.5	6172.5	6124.9	6022.3	5797.0	5659.5	5524.0	4928.5
30°	6264.2	6297.1	6436.4	6469.4	6423.6	6363.1	6253.2	6027.8	5906.9	5802.5	5148.4
32.5°	6553.6	6625.1	6740.5	6733.2	6670.9	6641.6	6540.8	6300.8	6233.0	6222.0	5456.2
35°	6843.1	6898.1	7000.7	7026.3	6971.4	6965.9	6892.6	6714.9	6716.7	6788.2	5936.2
37.5°	7092.3	7141.8	7262.7	7319.5	7330.5	7358.0	7328.6	7211.4	7378.1	7574.1	6572.0
40°	7301.2	7370.8	7524.7	7623.6	7737.2	7838.0	7843.5	7869.1	8204.4	8541.5	7401.9
42.5°	7464.2	7561.3	7784.8	7968.1	8228.2	8356.5	8459.1	8600.2	9164.5	9668.3	8380.3
45°	7676.7	7788.5	8067.0	8354.6	8761.4	8972.1	9115.0	9492.4	10293.1	10980.1	9384.3
47.5°	8028.5	8087.2	8371.1	8790.7	9325.7	9626.2	9904.7	10476.3	11504.1	12119.7	10219.8
50°	8481.1	8519.5	8733.9	9316.5	10009.1	10404.8	10912.3	11584.7	12761.0	13065.1	10692.5
52.5°	8981.2	8994.1	9155.3	9895.5	10774.9	11273.3	11841.2	12671.2	13785.2	13739.4	11005.8
55°	9562.0	9543.7	9681.1	10523.9	11681.9	12251.7	12913.1	13783.3	14673.8	14217.6	11185.3
57.5°	10227.1	10177.6	10311.4	11357.6	12843.4	13525.0	14197.4	14743.4	15362.7	14618.8	11271.4
60°	10923.3	10824.4	10983.8	12293.8	14212.1	14858.8	15417.6	15564.2	16088.2	14937.6	11123.0
62.5°	11478.5	11480.3	11777.1	13290.5	15619.2	16185.3	16482.1	16614.0	16713.0	14868.0	10342.5
65°	12345.1	12374.4	12848.9	14673.8	17248.0	17739.0	17942.3	17513.6	16740.4	14003.2	9170.0
67.5°	13239.2	13332.6	14201.1	16579.2	19129.6	19525.3	19263.3	17687.7	15992.9	12030.0	6953.0
70°	13530.5	13684.4	15115.3	17891.0	20258.2	20463.4	19576.6	16876.0	13369.3	8043.2	3499.4
72.5°	12398.2	12647.4	14589.5	17412.8	19538.2	19360.4	17515.4	14153.4	8499.4	3054.2	1068.1
75°	8743.1	8853.0	12125.2	14444.7	15714.4	15210.6	13323.5	9124.2	3495.8	857.5	366.4
77.5°	4514.4	4461.3	7211.4	9584.0	11207.3	10685.2	8724.7	4723.3	1324.7	357.3	227.2
80°	2334.2	2372.6	3120.2	5022.0	6841.3	6295.3	4651.9	2189.4	705.4	197.9	174.1
82.5°	1308.2	1227.5	1793.7	2193.1	3199.0	2508.2	1784.5	1550.0	307.8	119.1	164.9
85°	238.2	249.2	983.9	1185.4	1110.3	705.4	575.3	1035.2	89.8	66.0	115.4
87.5°	3.7	3.7	190.5	340.8	216.2	98.9	181.4	148.4	18.3	25.7	20.2
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°	4254.3	4254.3	4254.3	4254.3	4254.3	4254.3	4254.3	4254.3	4254.3	4254.3	4254.3
2.5°	4234.1	4164.5	4034.4	3906.2	3743.1	3609.4	3519.6	3426.1	3330.9	3338.2	3360.2
5°	4160.8	4039.9	3783.4	3512.3	3252.1	3017.6	2786.7	2579.7	2495.4	2418.5	2422.1
7.5°	4087.5	3917.2	3541.6	3116.5	2722.6	2323.2	2033.7	1795.5	1669.1	1573.8	1546.3
10°	4054.6	3829.2	3319.9	2735.4	2176.6	1740.6	1368.6	1174.4	1024.2	976.5	989.4
12.5°	4069.2	3785.2	3120.2	2391.0	1725.9	1212.9	952.7	853.8	820.8	815.3	811.6
15°	4096.7	3754.1	2924.1	2009.9	1267.9	901.4	800.7	782.3	778.7	775.0	776.8
17.5°	4133.4	3726.6	2715.3	1652.6	972.9	787.8	758.5	749.4	747.5	747.5	747.5
20°	4170.0	3695.5	2482.6	1333.8	811.6	743.9	725.5	720.0	718.2	718.2	716.4
22.5°	4212.1	3668.0	2246.2	1048.0	747.5	712.7	696.2	692.6	690.7	688.9	688.9
25°	4272.6	3633.2	1995.2	857.5	707.2	683.4	666.9	663.2	661.4	654.1	655.9
27.5°	4353.2	3607.5	1736.9	740.2	670.6	646.8	635.8	630.3	626.6	621.1	622.9
30°	4463.1	3585.5	1462.1	676.1	628.4	608.3	597.3	593.6	590.0	584.5	584.5
32.5°	4653.7	3594.7	1172.6	624.8	590.0	566.1	555.1	551.5	547.8	542.3	542.3
35°	4939.5	3647.8	938.1	580.8	544.2	520.3	509.3	509.3	503.8	496.5	494.7
37.5°	5406.7	3783.4	753.0	538.7	500.2	478.2	465.4	461.7	456.2	445.2	443.4
40°	5958.2	3994.1	633.9	496.5	459.9	437.9	426.9	415.9	401.2	390.3	388.4
42.5°	6650.7	4210.3	549.6	454.4	421.4	401.2	388.4	370.1	348.1	333.5	331.6
45°	7372.6	4408.2	492.9	415.9	384.8	368.3	353.6	324.3	296.8	278.5	276.7
47.5°	7911.3	4444.8	447.0	379.3	353.6	337.1	317.0	280.3	243.7	227.2	221.7
50°	8165.9	4267.1	399.4	342.6	322.5	304.1	278.5	236.3	196.0	175.9	172.2
52.5°	8255.7	3959.3	360.9	309.6	291.3	269.3	238.2	190.5	153.9	133.7	131.9
55°	8219.1	3570.9	326.1	278.5	254.7	229.0	197.9	152.1	113.6	97.1	93.4
57.5°	8026.7	3076.2	291.3	247.3	218.0	192.4	157.6	113.6	77.0	62.3	60.5
60°	7508.2	2402.0	256.5	212.5	185.0	157.6	124.6	80.6	47.6	34.8	34.8
62.5°	6632.4	1782.7	223.5	177.7	155.7	126.4	87.9	51.3	25.7	18.3	16.5
65°	5542.3	1315.5	186.9	150.2	130.1	98.9	62.3	31.1	12.8	5.5	3.7
67.5°	3867.7	811.6	155.7	122.8	106.3	71.5	38.5	12.8	5.5	0.0	0.0
70°	1757.0	386.6	119.1	93.4	80.6	51.3	20.2	7.3	3.7	0.0	0.0
72.5°	546.0	203.4	84.3	67.8	55.0	33.0	11.0	5.5	3.7	0.0	0.0
75°	252.8	130.1	53.1	36.6	31.1	16.5	7.3	3.7	1.8	0.0	0.0
77.5°	188.7	100.8	31.1	20.2	16.5	11.0	5.5	3.7	1.8	0.0	0.0
80°	164.9	51.3	18.3	12.8	9.2	7.3	3.7	1.8	0.0	0.0	0.0
82.5°	148.4	25.7	11.0	7.3	5.5	3.7	1.8	1.8	0.0	0.0	0.0
85°	80.6	14.7	7.3	5.5	3.7	1.8	1.8	0.0	0.0	0.0	0.0
87.5°	14.7	7.3	5.5	3.7	3.7	1.8	1.8	1.8	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)