

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: P457769

Luminaire Tested: **GALN-SA9A-827-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457769
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-SA9A-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA 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: 25069 lumens
Efficiency: N/A
Efficacy: 91.5 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

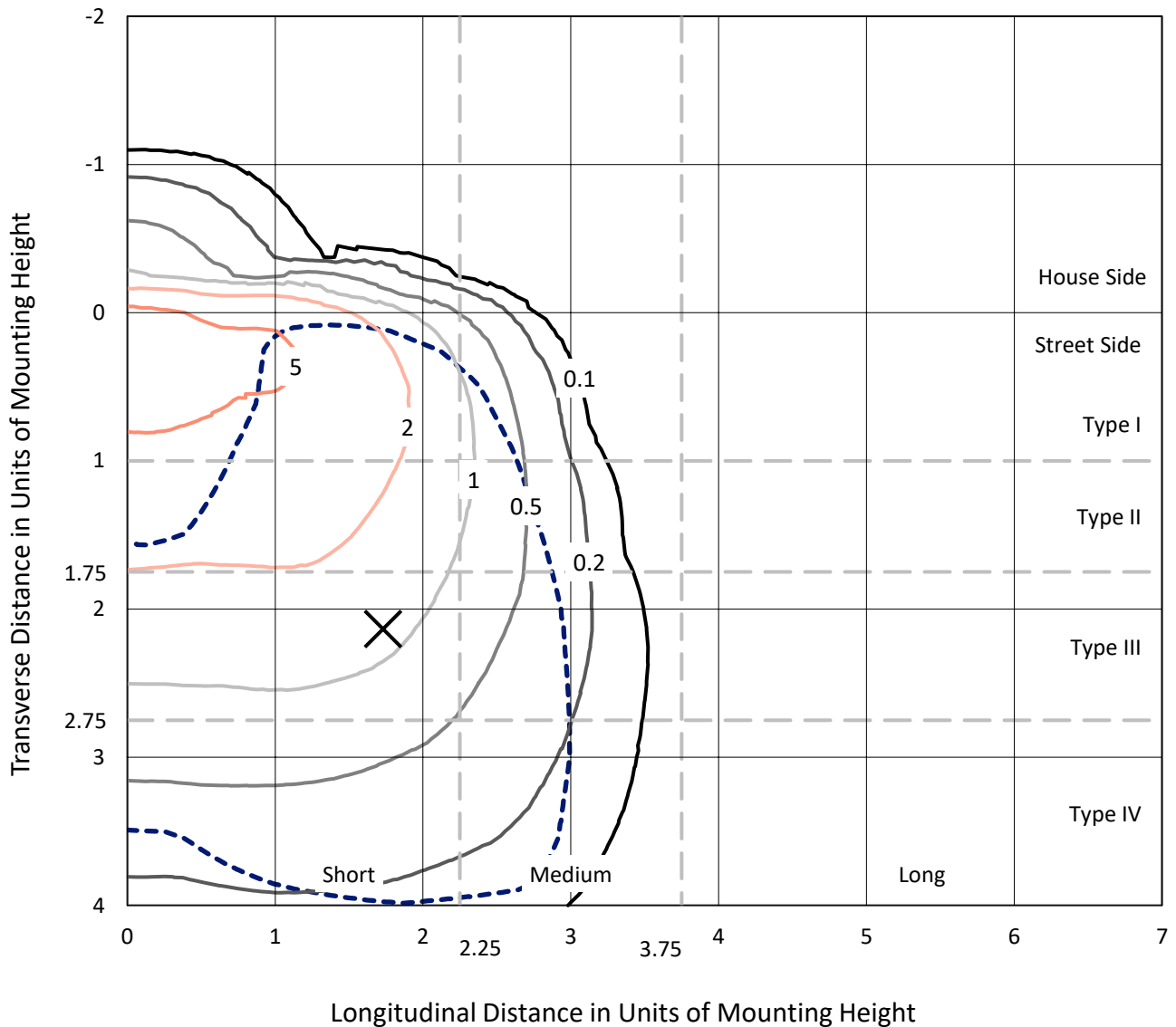
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

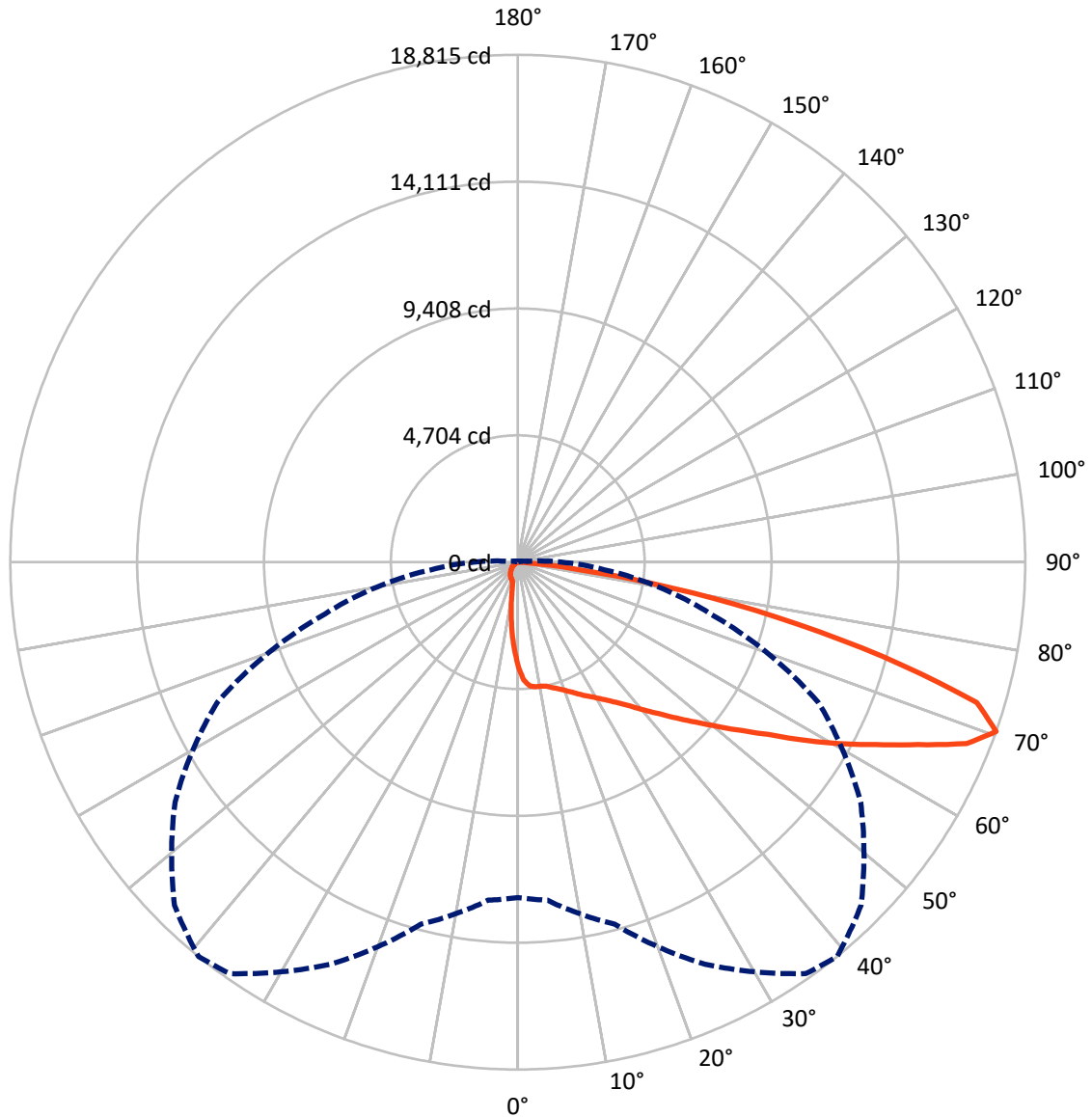
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Short - N/A

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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	1634.6	0.0	1634.6
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	23434.4	0.0	23434.4
	% Fixture	93.5	0.0	93.5
Total	Lumens	25069.0	0.0	25069.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.6	1.3
10°-20°	867.0	3.5
20°-30°	1452.5	5.8
30°-40°	2252.6	9.0
40°-50°	3569.8	14.2
50°-60°	5232.8	20.9
60°-70°	6707.1	26.8
70°-80°	4214.5	16.8
80°-90°	439.1	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°	25069.0	100.0
0°-180°	25069.0	100.0

Coefficient of Utilization



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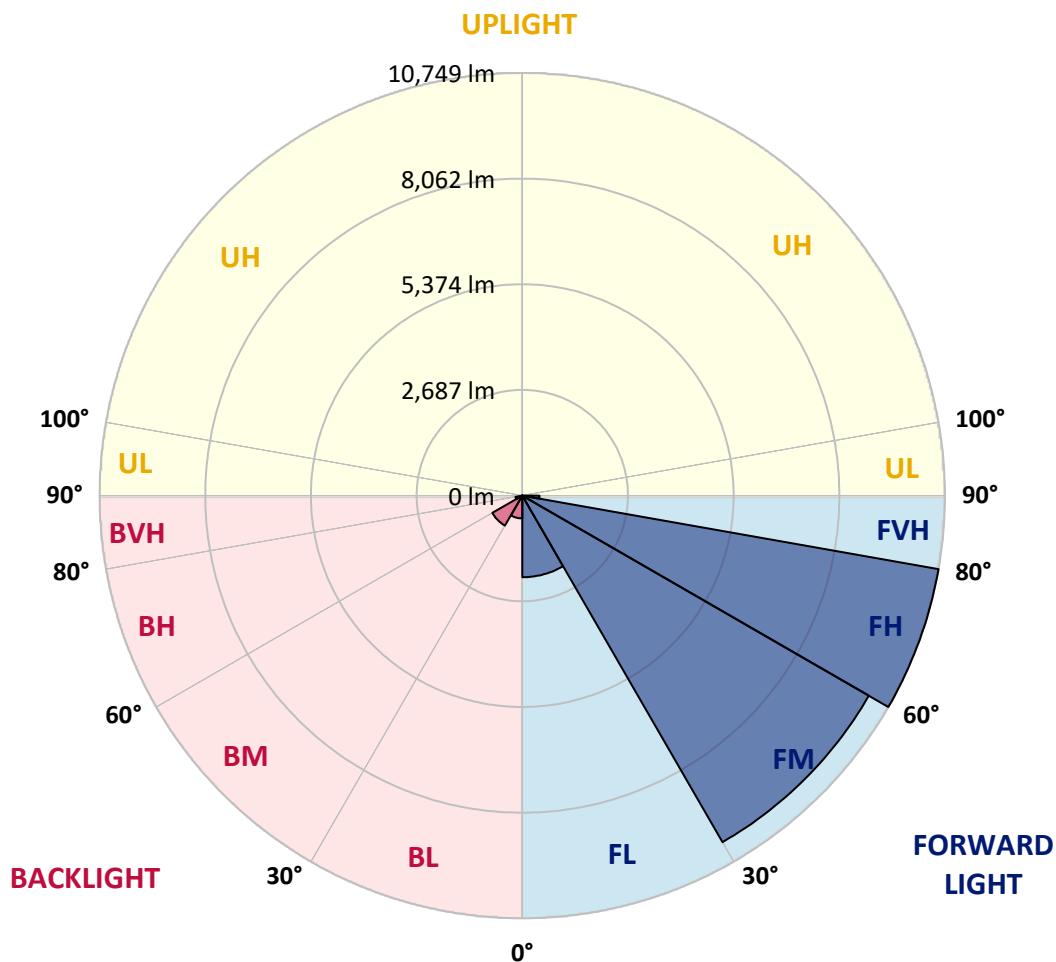
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2074.3	8.3			
FM	(30°-60°)	10175.5	40.6			
FH	(60°-80°)	10748.8	42.9			G4/12000
FVH	(80°-90°)	435.8	1.7			G3/500
BL	(0°-30°)	578.8	2.3	B2/1000		
BM	(30°-60°)	879.7	3.5	B1/1000		
BH	(60°-80°)	172.9	0.7	B1/500		G1/500
BVH	(80°-90°)	3.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3911.6	3911.6	3911.6	3911.6	3911.6	3911.6	3911.6	3911.6	3911.6	3911.6	3911.6
2.5°	4519.8	4504.6	4484.4	4460.8	4393.4	4381.6	4341.2	4255.3	4152.5	4068.3	3952.1
5°	4733.7	4742.1	4727.0	4684.9	4636.0	4607.4	4556.8	4423.7	4290.7	4120.5	3930.2
7.5°	4782.6	4799.4	4780.9	4740.4	4693.3	4663.0	4622.5	4508.0	4353.0	4159.3	3898.1
10°	4777.5	4797.7	4785.9	4748.9	4710.1	4681.5	4637.7	4546.7	4422.1	4218.2	3908.3
12.5°	4769.1	4796.0	4794.4	4775.8	4743.8	4721.9	4695.0	4614.1	4497.9	4304.1	3963.8
15°	4745.5	4779.2	4809.5	4824.7	4826.4	4826.4	4792.7	4706.8	4595.6	4417.0	4036.3
17.5°	4755.6	4794.4	4870.2	4914.0	4944.3	4940.9	4905.5	4812.9	4689.9	4533.2	4112.1
20°	4817.9	4870.2	4976.3	5063.9	5094.2	5084.1	5036.9	4929.1	4789.3	4632.6	4186.2
22.5°	4971.2	5018.4	5151.5	5254.2	5276.1	5249.2	5181.8	5035.2	4908.9	4740.4	4275.5
25°	5200.3	5255.9	5378.9	5456.4	5456.4	5441.2	5346.9	5175.1	5043.7	4890.4	4391.7
27.5°	5478.3	5525.5	5646.8	5715.8	5675.4	5631.6	5537.3	5330.1	5203.7	5079.0	4531.6
30°	5759.6	5789.9	5918.0	5948.3	5906.2	5850.6	5749.5	5542.3	5431.1	5335.1	4733.7
32.5°	6025.8	6091.5	6197.6	6190.9	6133.6	6106.6	6014.0	5793.3	5731.0	5720.9	5016.7
35°	6292.0	6342.5	6436.8	6460.4	6409.9	6404.8	6337.4	6174.0	6175.7	6241.4	5458.1
37.5°	6521.1	6566.5	6677.7	6729.9	6740.1	6765.3	6738.4	6630.6	6783.9	6964.1	6042.6
40°	6713.1	6777.1	6918.6	7009.6	7114.0	7206.7	7211.7	7235.3	7543.6	7853.6	6805.8
42.5°	6863.0	6952.3	7157.8	7326.3	7565.5	7683.4	7777.8	7907.5	8426.3	8889.6	7705.3
45°	7058.4	7161.2	7417.3	7681.7	8055.7	8249.4	8380.8	8727.9	9464.0	10095.8	8628.5
47.5°	7381.9	7435.8	7696.9	8082.7	8574.6	8850.8	9106.9	9632.5	10577.6	11143.6	9396.7
50°	7798.0	7833.4	8030.5	8566.2	9202.9	9566.8	10033.4	10651.7	11733.2	12012.8	9831.3
52.5°	8257.9	8269.7	8417.9	9098.5	9907.1	10365.3	10887.5	11650.6	12674.9	12632.8	10119.3
55°	8791.9	8775.0	8901.4	9676.3	10741.0	11264.9	11873.0	12673.2	13491.9	13072.4	10284.4
57.5°	9403.4	9357.9	9480.9	10442.8	11809.0	12435.7	13053.9	13555.9	14125.3	13441.4	10363.6
60°	10043.5	9952.6	10099.1	11303.6	13067.4	13662.0	14175.8	14310.6	14792.4	13734.5	10227.2
62.5°	10554.0	10555.7	10828.6	12220.0	14361.2	14881.7	15154.6	15275.9	15366.9	13670.5	9509.5
65°	11350.8	11377.7	11814.0	13491.9	15858.8	16310.2	16497.2	16103.0	15392.1	12875.3	8431.4
67.5°	12172.9	12258.8	13057.3	15243.9	17588.8	17952.7	17711.8	16263.1	14704.8	11061.0	6393.0
70°	12440.7	12582.2	13897.9	16450.0	18626.5	18815.2	17999.9	15516.8	12292.5	7395.4	3217.6
72.5°	11399.6	11628.7	13414.4	16010.4	17964.5	17801.1	16104.7	13013.5	7814.8	2808.2	982.1
75°	8038.9	8140.0	11148.6	13281.3	14448.8	13985.5	12250.4	8389.3	3214.2	788.4	336.9
77.5°	4150.8	4102.0	6630.6	8812.1	10304.7	9824.5	8022.0	4342.9	1218.0	328.5	208.9
80°	2146.2	2181.5	2868.9	4617.5	6290.3	5788.3	4277.2	2013.1	648.6	181.9	160.0
82.5°	1202.8	1128.7	1649.2	2016.5	2941.3	2306.2	1640.8	1425.2	283.0	109.5	151.6
85°	219.0	229.1	904.6	1089.9	1020.9	648.6	529.0	951.8	82.5	60.6	106.1
87.5°	3.4	3.4	175.2	313.3	198.8	91.0	166.8	136.5	16.8	23.6	18.5
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°	3911.6	3911.6	3911.6	3911.6	3911.6	3911.6	3911.6	3911.6	3911.6	3911.6	3911.6
2.5°	3893.1	3829.1	3709.5	3591.6	3441.6	3318.6	3236.1	3150.2	3062.6	3069.3	3089.5
5°	3825.7	3714.5	3478.7	3229.4	2990.2	2774.5	2562.3	2371.9	2294.4	2223.7	2227.0
7.5°	3758.3	3601.7	3256.3	2865.5	2503.3	2136.1	1869.9	1650.9	1534.7	1447.1	1421.8
10°	3728.0	3520.8	3052.5	2515.1	2001.3	1600.4	1258.4	1079.8	941.7	897.9	909.7
12.5°	3741.5	3480.4	2868.9	2198.4	1586.9	1115.2	876.0	785.0	754.7	749.6	746.3
15°	3766.7	3451.7	2688.6	1848.0	1165.7	828.8	736.2	719.3	716.0	712.6	714.3
17.5°	3800.4	3426.5	2496.6	1519.5	894.5	724.4	697.4	689.0	687.3	687.3	687.3
20°	3834.1	3397.8	2282.6	1226.4	746.3	683.9	667.1	662.0	660.4	660.4	658.7
22.5°	3872.9	3372.6	2065.3	963.6	687.3	655.3	640.1	636.8	635.1	633.4	633.4
25°	3928.5	3340.5	1834.5	788.4	650.3	628.4	613.2	609.8	608.1	601.4	603.1
27.5°	4002.6	3317.0	1597.0	680.6	616.6	594.7	584.6	579.5	576.1	571.1	572.8
30°	4103.7	3296.7	1344.3	621.6	577.8	559.3	549.2	545.8	542.4	537.4	537.4
32.5°	4278.9	3305.2	1078.1	574.4	542.4	520.5	510.4	507.1	503.7	498.6	498.6
35°	4541.7	3354.0	862.5	534.0	500.3	478.4	468.3	468.3	463.3	456.5	454.8
37.5°	4971.2	3478.7	692.4	495.3	459.9	439.7	427.9	424.5	419.5	409.4	407.7
40°	5478.3	3672.4	582.9	456.5	422.8	402.6	392.5	382.4	368.9	358.8	357.1
42.5°	6115.1	3871.2	505.4	417.8	387.5	368.9	357.1	340.3	320.1	306.6	304.9
45°	6778.8	4053.1	453.2	382.4	353.8	338.6	325.1	298.2	272.9	256.1	254.4
47.5°	7274.1	4086.8	411.0	348.7	325.1	310.0	291.4	257.7	224.1	208.9	203.8
50°	7508.2	3923.4	367.2	315.0	296.5	279.6	256.1	217.3	180.3	161.7	158.4
52.5°	7590.8	3640.4	331.9	284.7	267.9	247.6	219.0	175.2	141.5	123.0	121.3
55°	7557.1	3283.3	299.9	256.1	234.2	210.6	181.9	139.8	104.4	89.3	85.9
57.5°	7380.2	2828.4	267.9	227.4	200.5	176.9	144.9	104.4	70.8	57.3	55.6
60°	6903.5	2208.5	235.8	195.4	170.1	144.9	114.6	74.1	43.8	32.0	32.0
62.5°	6098.2	1639.1	205.5	163.4	143.2	116.2	80.9	47.2	23.6	16.8	15.2
65°	5095.9	1209.5	171.8	138.1	119.6	91.0	57.3	28.6	11.8	5.1	3.4
67.5°	3556.2	746.3	143.2	112.9	97.7	65.7	35.4	11.8	5.1	0.0	0.0
70°	1615.5	355.4	109.5	85.9	74.1	47.2	18.5	6.7	3.4	0.0	0.0
72.5°	502.0	187.0	77.5	62.3	50.5	30.3	10.1	5.1	3.4	0.0	0.0
75°	232.5	119.6	48.9	33.7	28.6	15.2	6.7	3.4	1.7	0.0	0.0
77.5°	173.5	92.7	28.6	18.5	15.2	10.1	5.1	3.4	1.7	0.0	0.0
80°	151.6	47.2	16.8	11.8	8.4	6.7	3.4	1.7	0.0	0.0	0.0
82.5°	136.5	23.6	10.1	6.7	5.1	3.4	1.7	1.7	0.0	0.0	0.0
85°	74.1	13.5	6.7	5.1	3.4	1.7	1.7	0.0	0.0	0.0	0.0
87.5°	13.5	6.7	5.1	3.4	3.4	1.7	1.7	1.7	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)