

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: P454376

Luminaire Tested: **GALN-SA5C-727-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454376
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-SA5C-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA 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: 24220 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

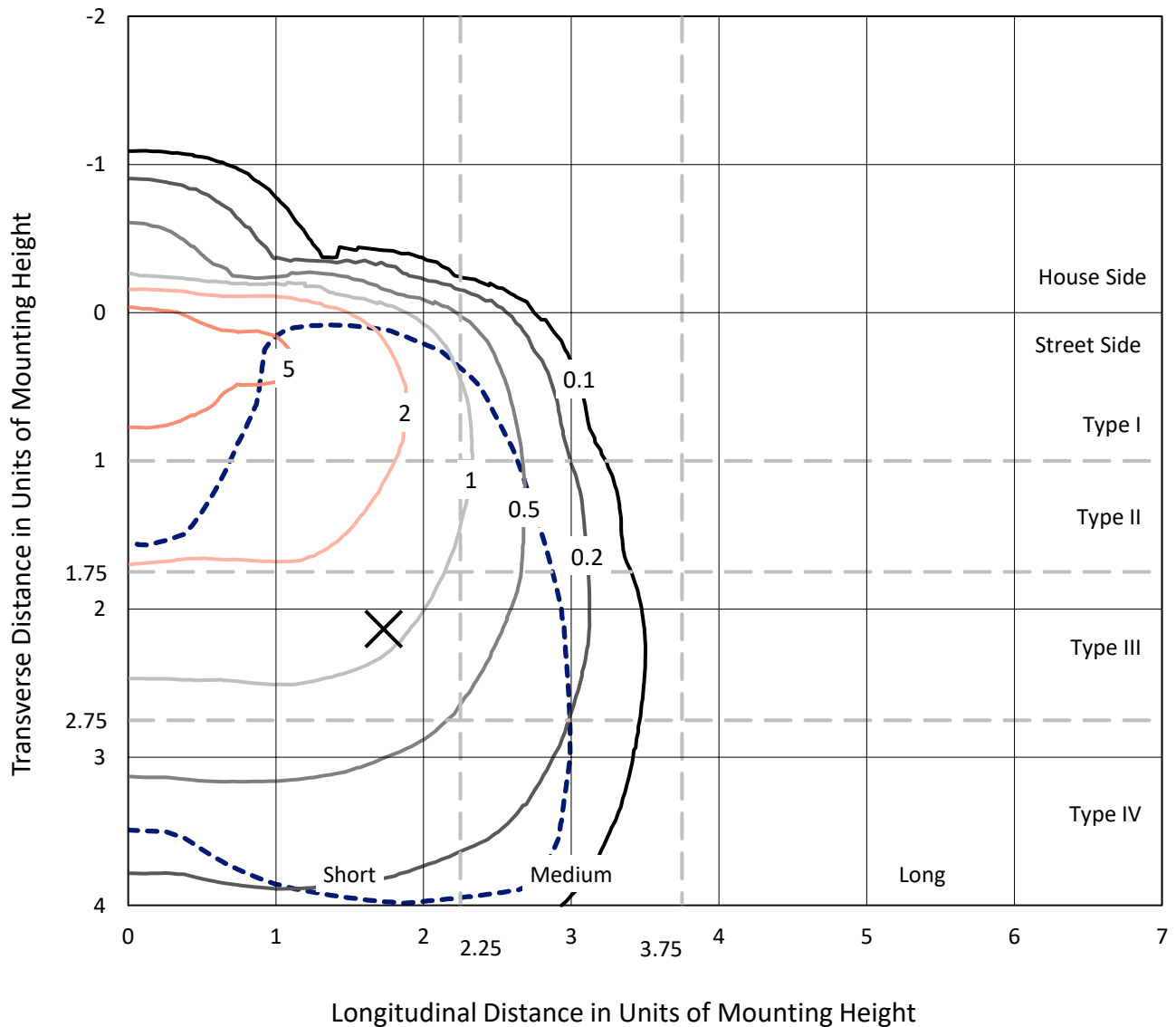
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

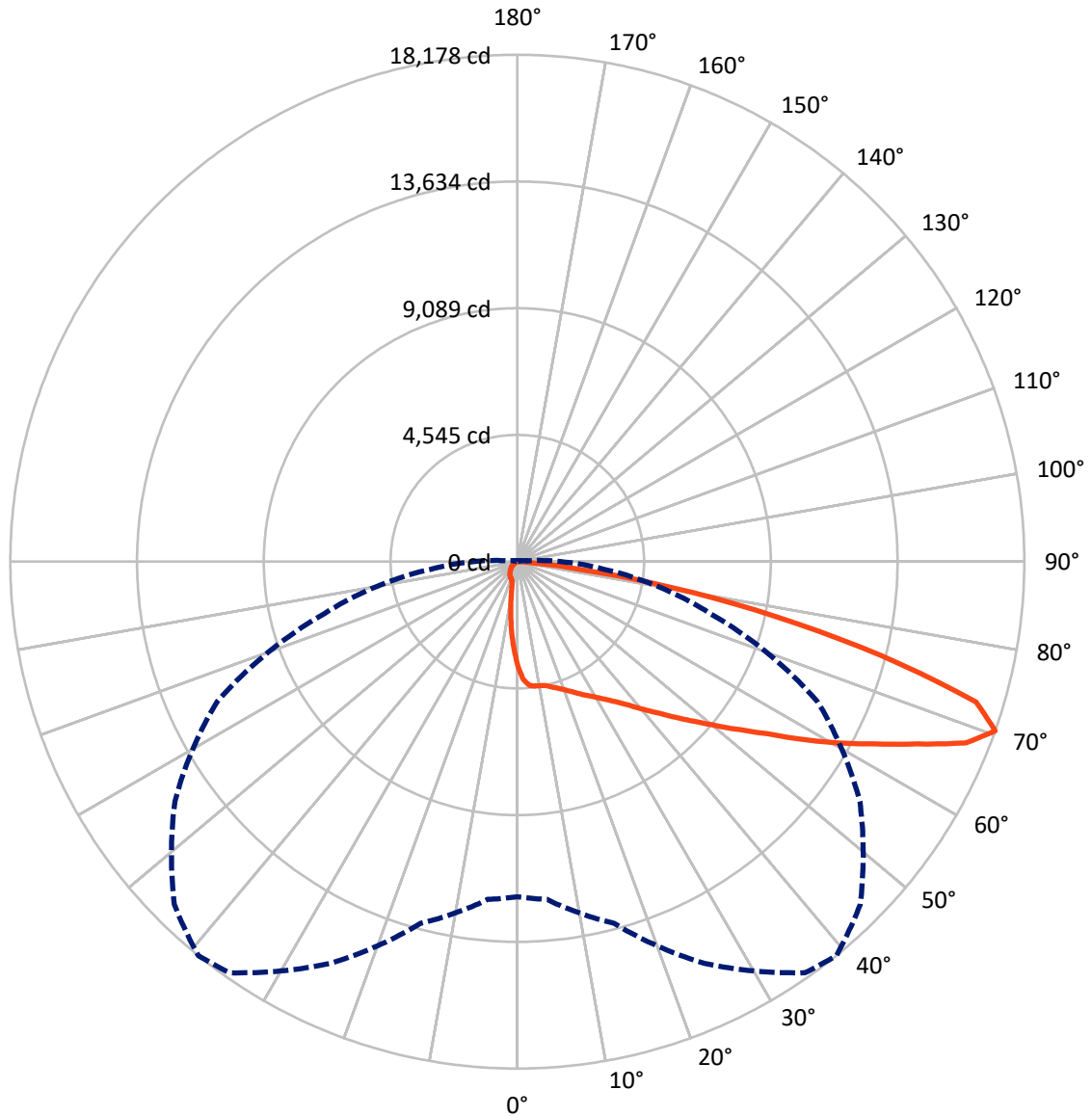
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	1579.3	0.0	1579.3
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	22640.7	0.0	22640.7
	% Fixture	93.5	0.0	93.5
Total	Lumens	24220.0	0.0	24220.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.3	1.3
10°-20°	837.7	3.5
20°-30°	1403.3	5.8
30°-40°	2176.4	9.0
40°-50°	3448.9	14.2
50°-60°	5055.5	20.9
60°-70°	6480.0	26.8
70°-80°	4071.8	16.8
80°-90°	424.2	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°	24220.0	100.0
0°-180°	24220.0	100.0

Coefficient of Utilization



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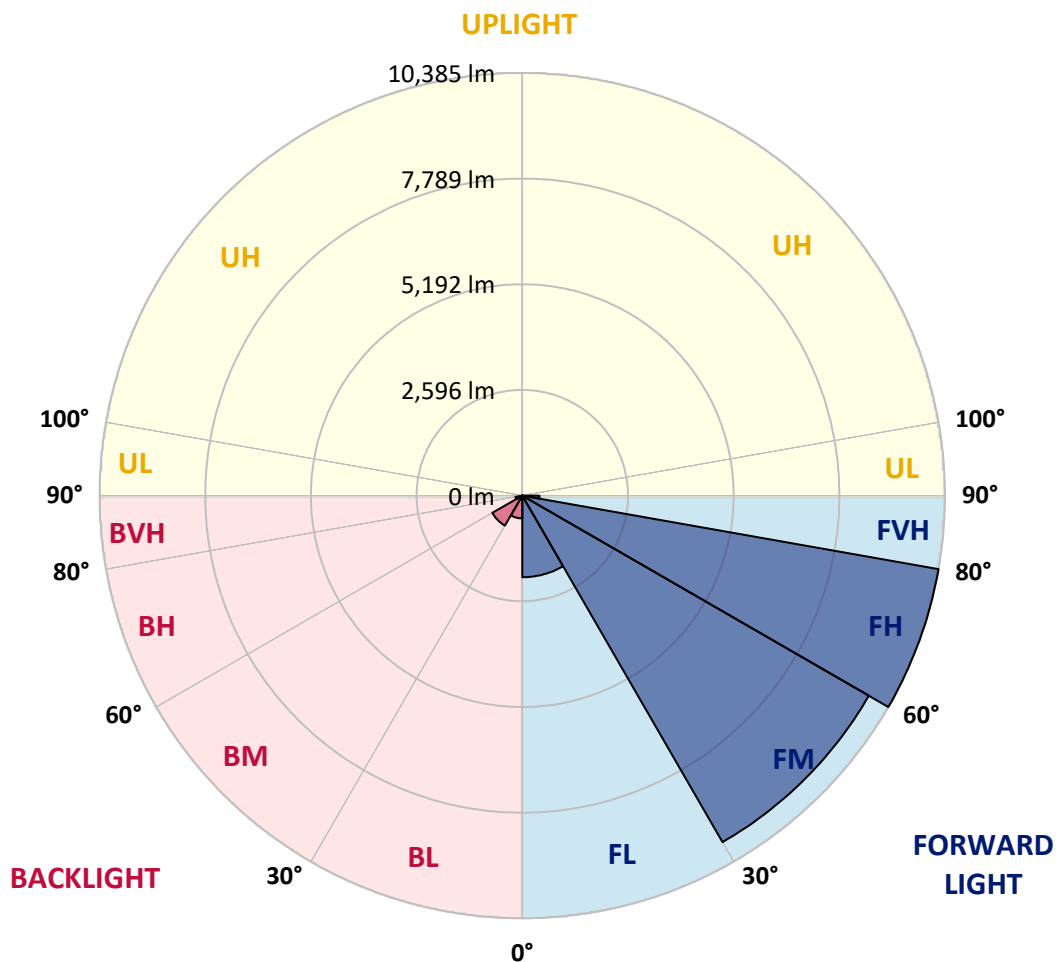
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2004.1	8.3			
FM	(30°-60°)	9830.8	40.6			
FH	(60°-80°)	10384.7	42.9			G4/12000
FVH	(80°-90°)	421.1	1.7			G3/500
BL	(0°-30°)	559.2	2.3	B2/1000		
BM	(30°-60°)	849.9	3.5	B1/1000		
BH	(60°-80°)	167.0	0.7	B1/500		G1/500
BVH	(80°-90°)	3.1	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°	3779.2	3779.2	3779.2	3779.2	3779.2	3779.2	3779.2	3779.2	3779.2	3779.2	3779.2
2.5°	4366.7	4352.0	4332.5	4309.7	4244.6	4233.2	4194.2	4111.2	4011.9	3930.5	3818.2
5°	4573.4	4581.5	4566.9	4526.2	4479.0	4451.3	4402.5	4273.9	4145.3	3981.0	3797.1
7.5°	4620.6	4636.9	4619.0	4579.9	4534.3	4505.0	4466.0	4355.3	4205.6	4018.4	3766.1
10°	4615.7	4635.2	4623.8	4588.0	4550.6	4522.9	4480.6	4392.7	4272.3	4075.4	3775.9
12.5°	4607.6	4633.6	4632.0	4614.1	4583.2	4562.0	4536.0	4457.8	4345.5	4158.4	3829.6
15°	4584.8	4617.3	4646.6	4661.3	4662.9	4662.9	4630.4	4547.4	4439.9	4267.4	3899.6
17.5°	4594.5	4632.0	4705.2	4747.5	4776.8	4773.6	4739.4	4649.9	4531.1	4379.7	3972.8
20°	4654.8	4705.2	4807.8	4892.4	4921.7	4911.9	4866.3	4762.2	4627.1	4475.7	4044.4
22.5°	4802.9	4848.4	4977.0	5076.3	5097.5	5071.4	5006.3	4864.7	4742.7	4579.9	4130.7
25°	5024.2	5077.9	5196.7	5271.6	5271.6	5257.0	5165.8	4999.8	4872.9	4724.8	4243.0
27.5°	5292.8	5338.3	5455.5	5522.2	5483.2	5440.9	5349.7	5149.5	5027.5	4907.0	4378.1
30°	5564.6	5593.9	5717.6	5746.8	5706.2	5652.5	5554.8	5354.6	5247.2	5154.4	4573.4
32.5°	5821.7	5885.2	5987.7	5981.2	5925.9	5899.8	5810.3	5597.1	5536.9	5527.1	4846.8
35°	6078.9	6127.7	6218.8	6241.6	6192.8	6187.9	6122.8	5964.9	5966.6	6030.0	5273.2
37.5°	6300.2	6344.2	6451.6	6502.0	6511.8	6536.2	6510.2	6406.0	6554.1	6728.3	5838.0
40°	6485.8	6547.6	6684.3	6772.2	6873.1	6962.6	6967.5	6990.3	7288.1	7587.6	6575.3
42.5°	6630.6	6716.9	6915.4	7078.2	7309.3	7423.2	7514.4	7639.7	8141.0	8588.5	7444.4
45°	6819.4	6918.7	7166.1	7421.6	7782.9	7970.1	8097.0	8432.3	9143.5	9753.9	8336.3
47.5°	7131.9	7184.0	7436.2	7808.9	8284.2	8551.1	8798.5	9306.3	10219.3	10766.2	9078.4
50°	7533.9	7568.1	7758.5	8276.0	8891.3	9242.8	9693.6	10290.9	11335.8	11606.0	9498.3
52.5°	7978.2	7989.6	8132.8	8790.4	9571.6	10014.3	10518.8	11256.1	12245.6	12204.9	9776.6
55°	8494.1	8477.9	8599.9	9348.6	10377.2	10883.4	11470.9	12244.0	13035.0	12629.7	9936.1
57.5°	9084.9	9041.0	9159.8	10089.1	11409.1	12014.5	12611.8	13096.8	13646.9	12986.2	10012.6
60°	9703.4	9615.5	9757.1	10920.8	12624.8	13199.4	13695.8	13826.0	14291.4	13269.3	9880.8
62.5°	10196.5	10198.2	10461.8	11806.2	13874.8	14377.7	14641.4	14758.5	14846.4	13207.5	9187.5
65°	10966.4	10992.4	11413.9	13035.0	15321.7	15757.9	15938.5	15557.7	14870.8	12439.3	8145.8
67.5°	11760.6	11843.6	12615.1	14727.6	16993.2	17344.7	17112.0	15712.3	14206.8	10686.4	6176.5
70°	12019.4	12156.1	13427.2	15892.9	17995.7	18178.0	17390.3	14991.3	11876.2	7144.9	3108.6
72.5°	11013.6	11234.9	12960.1	15468.2	17356.1	17198.2	15559.3	12572.8	7550.2	2713.1	948.9
75°	7766.6	7864.3	10771.1	12831.5	13959.4	13511.8	11835.5	8105.2	3105.3	761.7	325.5
77.5°	4010.3	3963.1	6406.0	8513.7	9955.7	9491.8	7750.4	4195.8	1176.7	317.4	201.8
80°	2073.5	2107.7	2771.7	4461.1	6077.2	5592.2	4132.3	1944.9	626.6	175.8	154.6
82.5°	1162.1	1090.5	1593.4	1948.2	2841.7	2228.1	1585.2	1376.9	273.4	105.8	146.5
85°	211.6	221.3	874.0	1053.0	986.3	626.6	511.0	919.6	79.7	58.6	102.5
87.5°	3.3	3.3	169.3	302.7	192.0	87.9	161.1	131.8	16.3	22.8	17.9
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°	3779.2	3779.2	3779.2	3779.2	3779.2	3779.2	3779.2	3779.2	3779.2	3779.2	3779.2
2.5°	3761.2	3699.4	3583.8	3469.9	3325.1	3206.3	3126.5	3043.5	2958.9	2965.4	2984.9
5°	3696.1	3588.7	3360.9	3120.0	2888.9	2680.6	2475.5	2291.6	2216.7	2148.4	2151.6
7.5°	3631.0	3479.7	3146.0	2768.4	2418.5	2063.7	1806.6	1595.0	1482.7	1398.1	1373.6
10°	3601.7	3401.6	2949.1	2429.9	1933.5	1546.2	1215.8	1043.3	909.8	867.5	878.9
12.5°	3614.8	3362.5	2771.7	2123.9	1533.1	1077.4	846.3	758.4	729.1	724.3	721.0
15°	3639.2	3334.8	2597.6	1785.4	1126.3	800.8	711.2	695.0	691.7	688.4	690.1
17.5°	3671.7	3310.4	2412.0	1468.0	864.2	699.8	673.8	665.7	664.0	664.0	664.0
20°	3704.3	3282.8	2205.3	1184.9	721.0	660.8	644.5	639.6	638.0	638.0	636.4
22.5°	3741.7	3258.3	1995.4	931.0	664.0	633.1	618.5	615.2	613.6	612.0	612.0
25°	3795.4	3227.4	1772.4	761.7	628.2	607.1	592.4	589.2	587.5	581.0	582.7
27.5°	3867.0	3204.6	1542.9	657.5	595.7	574.5	564.8	559.9	556.6	551.7	553.4
30°	3964.7	3185.1	1298.8	600.6	558.2	540.3	530.6	527.3	524.1	519.2	519.2
32.5°	4134.0	3193.2	1041.6	555.0	524.1	502.9	493.1	489.9	486.6	481.8	481.8
35°	4387.9	3240.4	833.3	515.9	483.4	462.2	452.5	452.5	447.6	441.1	439.4
37.5°	4802.9	3360.9	668.9	478.5	444.3	424.8	413.4	410.1	405.3	395.5	393.9
40°	5292.8	3548.0	563.1	441.1	408.5	389.0	379.2	369.5	356.4	346.7	345.0
42.5°	5908.0	3740.1	488.3	403.6	374.3	356.4	345.0	328.8	309.2	296.2	294.6
45°	6549.2	3915.9	437.8	369.5	341.8	327.1	314.1	288.1	263.7	247.4	245.8
47.5°	7027.7	3948.4	397.1	336.9	314.1	299.5	281.6	249.0	216.5	201.8	196.9
50°	7254.0	3790.5	354.8	304.4	286.4	270.2	247.4	210.0	174.1	156.2	153.0
52.5°	7333.7	3517.1	320.6	275.1	258.8	239.2	211.6	169.3	136.7	118.8	117.2
55°	7301.2	3172.1	289.7	247.4	226.2	203.4	175.8	135.1	100.9	86.3	83.0
57.5°	7130.3	2732.6	258.8	219.7	193.7	170.9	140.0	100.9	68.4	55.3	53.7
60°	6669.7	2133.7	227.9	188.8	164.4	140.0	110.7	71.6	42.3	30.9	30.9
62.5°	5891.7	1583.6	198.6	157.9	138.3	112.3	78.1	45.6	22.8	16.3	14.6
65°	4923.3	1168.6	166.0	133.5	115.6	87.9	55.3	27.7	11.4	4.9	3.3
67.5°	3435.7	721.0	138.3	109.0	94.4	63.5	34.2	11.4	4.9	0.0	0.0
70°	1560.8	343.4	105.8	83.0	71.6	45.6	17.9	6.5	3.3	0.0	0.0
72.5°	485.0	180.7	74.9	60.2	48.8	29.3	9.8	4.9	3.3	0.0	0.0
75°	224.6	115.6	47.2	32.6	27.7	14.6	6.5	3.3	1.6	0.0	0.0
77.5°	167.6	89.5	27.7	17.9	14.6	9.8	4.9	3.3	1.6	0.0	0.0
80°	146.5	45.6	16.3	11.4	8.1	6.5	3.3	1.6	0.0	0.0	0.0
82.5°	131.8	22.8	9.8	6.5	4.9	3.3	1.6	1.6	0.0	0.0	0.0
85°	71.6	13.0	6.5	4.9	3.3	1.6	1.6	0.0	0.0	0.0	0.0
87.5°	13.0	6.5	4.9	3.3	3.3	1.6	1.6	1.6	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)