

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: P459219

Luminaire Tested: **GALN-SA7A-735-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459219
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-SA7A-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 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: 24407 lumens
Efficiency: N/A
Efficacy: 113.5 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

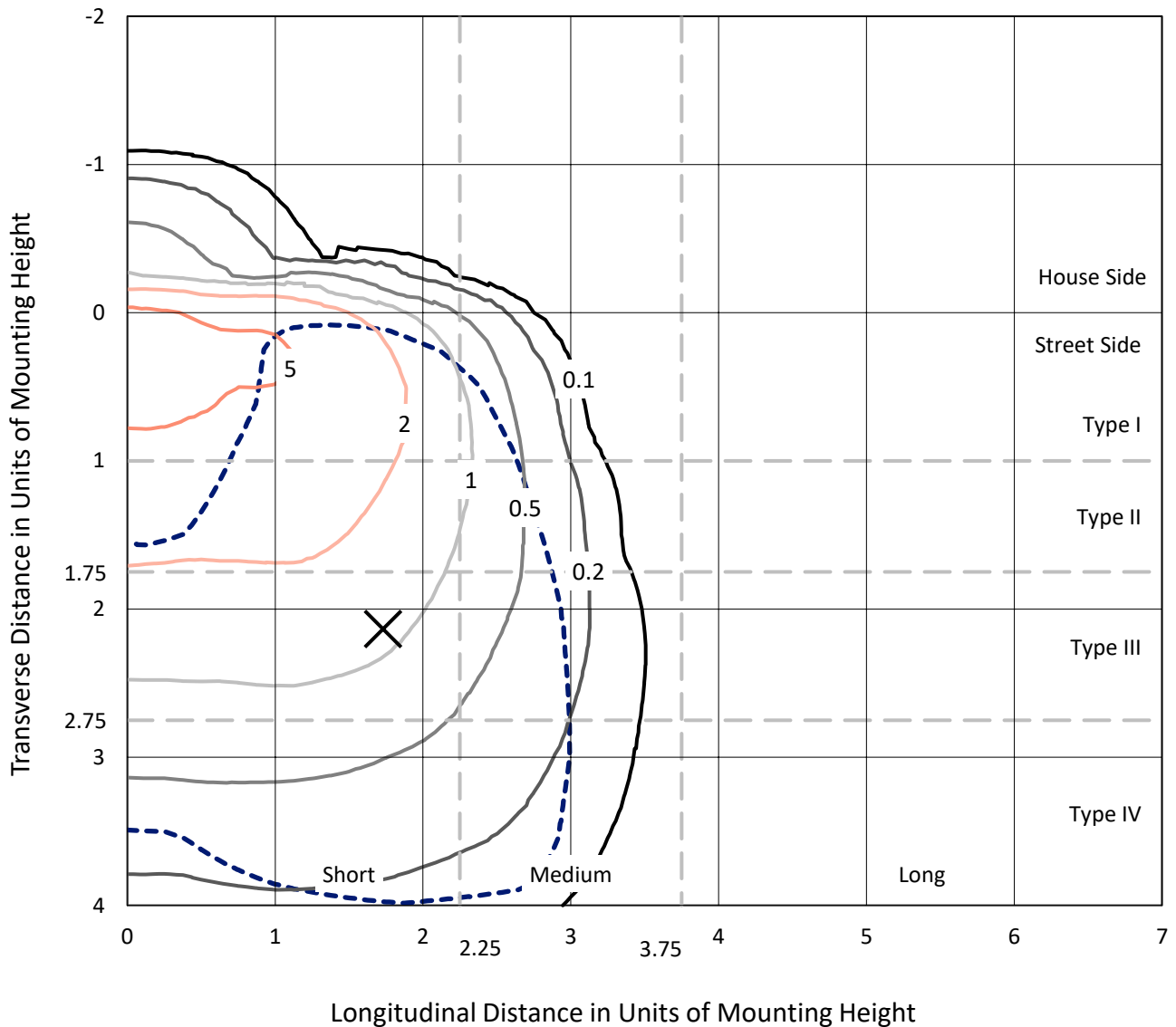
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

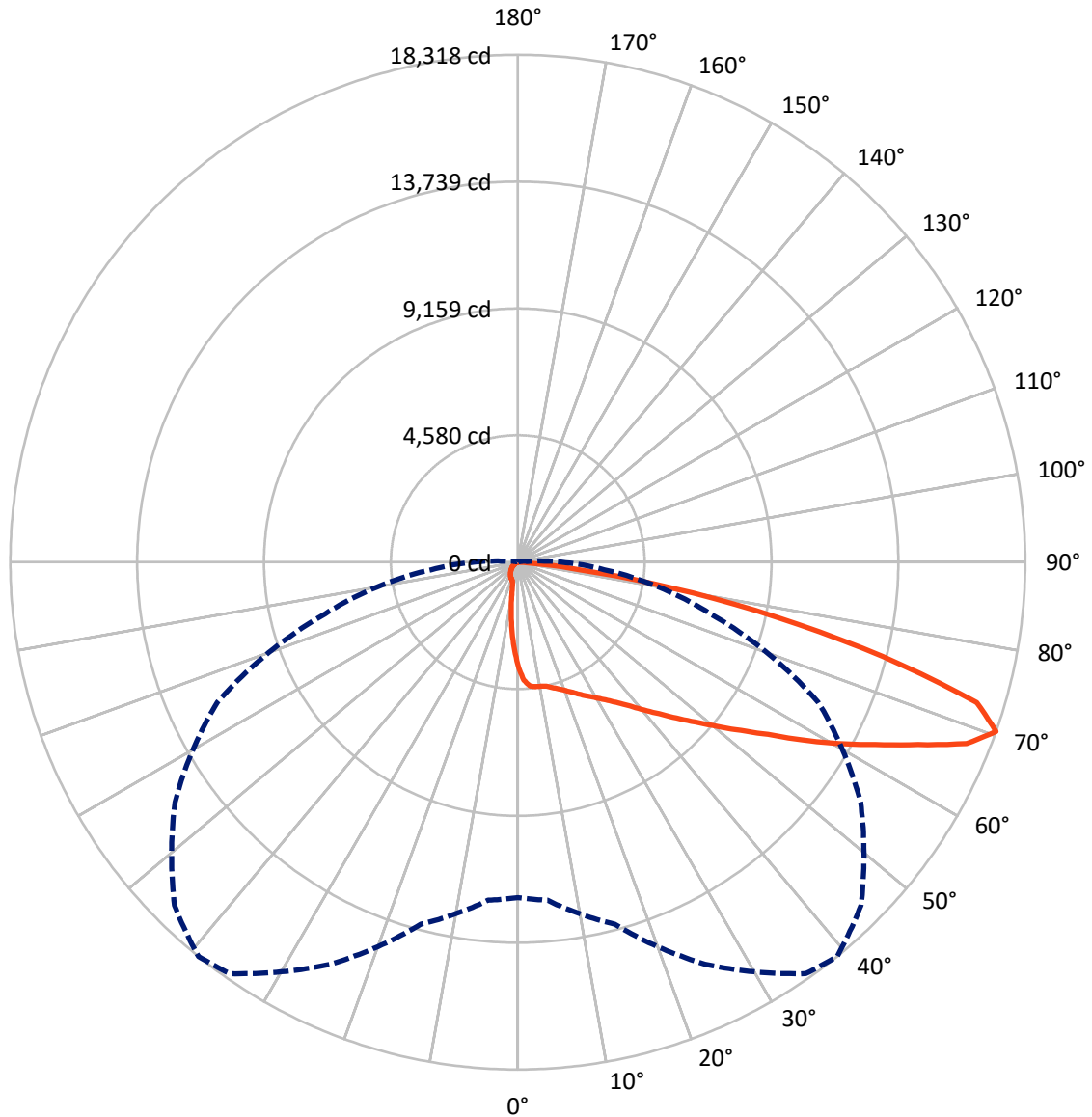
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	1591.5	0.0	1591.5
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	22815.5	0.0	22815.5
	% Fixture	93.5	0.0	93.5
Total	Lumens	24407.0	0.0	24407.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.8	1.3
10°-20°	844.1	3.5
20°-30°	1414.1	5.8
30°-40°	2193.2	9.0
40°-50°	3475.5	14.2
50°-60°	5094.6	20.9
60°-70°	6530.0	26.8
70°-80°	4103.2	16.8
80°-90°	427.5	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°	24407.0	100.0
0°-180°	24407.0	100.0



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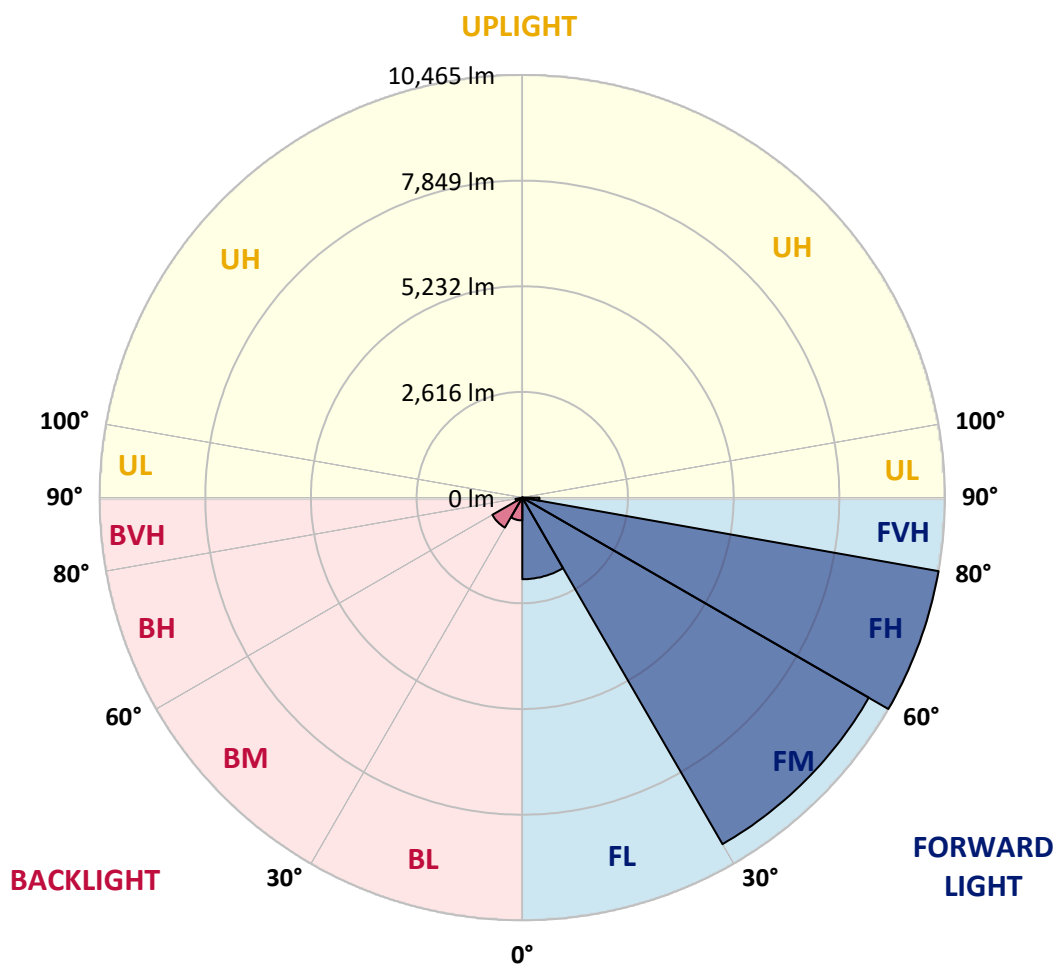
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2019.6	8.3			
FM	(30°-60°)	9906.7	40.6			
FH	(60°-80°)	10464.9	42.9			G4/12000
FVH	(80°-90°)	424.3	1.7			G3/500
BL	(0°-30°)	563.5	2.3	B2/1000		
BM	(30°-60°)	856.5	3.5	B1/1000		
BH	(60°-80°)	168.3	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°	3808.3	3808.3	3808.3	3808.3	3808.3	3808.3	3808.3	3808.3	3808.3	3808.3	3808.3
2.5°	4400.4	4385.6	4366.0	4343.0	4277.4	4265.9	4226.6	4142.9	4042.9	3960.9	3847.7
5°	4608.7	4616.9	4602.1	4561.1	4513.6	4485.7	4436.5	4306.9	4177.4	4011.7	3826.4
7.5°	4656.3	4672.7	4654.6	4615.3	4569.3	4539.8	4500.5	4388.9	4238.0	4049.4	3795.2
10°	4651.3	4671.0	4659.5	4623.5	4585.7	4557.9	4515.2	4426.6	4305.3	4106.8	3805.0
12.5°	4643.1	4669.4	4667.7	4649.7	4618.5	4597.2	4571.0	4492.3	4379.1	4190.5	3859.2
15°	4620.2	4653.0	4682.5	4697.3	4698.9	4698.9	4666.1	4582.5	4474.2	4300.4	3929.7
17.5°	4630.0	4667.7	4741.6	4784.2	4813.7	4810.4	4776.0	4685.8	4566.1	4413.5	4003.5
20°	4690.7	4741.6	4844.9	4930.2	4959.7	4949.8	4903.9	4799.0	4662.8	4510.3	4075.7
22.5°	4840.0	4885.9	5015.4	5115.5	5136.8	5110.6	5045.0	4902.3	4779.3	4615.3	4162.6
25°	5063.0	5117.1	5236.9	5312.3	5312.3	5297.5	5205.7	5038.4	4910.5	4761.2	4275.8
27.5°	5333.6	5379.6	5497.6	5564.9	5525.5	5482.9	5391.0	5189.3	5066.3	4944.9	4411.9
30°	5607.5	5637.0	5761.7	5791.2	5750.2	5696.1	5597.7	5396.0	5287.7	5194.2	4608.7
32.5°	5866.7	5930.6	6034.0	6027.4	5971.6	5945.4	5855.2	5640.3	5579.6	5569.8	4884.2
35°	6125.8	6175.0	6266.9	6289.8	6240.6	6235.7	6170.1	6011.0	6012.6	6076.6	5313.9
37.5°	6348.9	6393.1	6501.4	6552.2	6562.1	6586.7	6560.4	6455.5	6604.7	6780.2	5883.1
40°	6535.8	6598.2	6735.9	6824.5	6926.2	7016.4	7021.3	7044.3	7344.4	7646.2	6626.0
42.5°	6681.8	6768.7	6968.8	7132.8	7365.7	7480.5	7572.4	7698.7	8203.8	8654.8	7501.9
45°	6872.0	6972.1	7221.4	7478.9	7843.0	8031.6	8159.5	8497.4	9214.1	9829.2	8400.6
47.5°	7187.0	7239.4	7493.7	7869.2	8348.1	8617.1	8866.4	9378.1	10298.2	10849.3	9148.5
50°	7592.1	7626.5	7818.4	8339.9	8959.9	9314.2	9768.5	10370.4	11423.3	11695.6	9571.7
52.5°	8039.8	8051.3	8195.6	8858.2	9645.5	10091.6	10600.0	11343.0	12340.2	12299.2	9852.1
55°	8559.7	8543.3	8666.3	9420.8	10457.3	10967.4	11559.5	12338.5	13135.6	12727.2	10012.9
57.5°	9155.1	9110.8	9230.5	10167.0	11497.2	12107.3	12709.2	13197.9	13752.3	13086.4	10089.9
60°	9778.3	9689.8	9832.4	11005.1	12722.3	13301.3	13801.5	13932.7	14401.8	13371.8	9957.1
62.5°	10275.3	10276.9	10542.6	11897.3	13981.9	14488.7	14754.4	14872.5	14961.1	13309.5	9258.4
65°	11051.0	11077.3	11502.1	13135.6	15440.0	15879.5	16061.6	15677.8	14985.7	12535.3	8208.7
67.5°	11851.4	11935.1	12712.5	14841.3	17124.4	17478.6	17244.1	15833.6	14316.5	10768.9	6224.2
70°	12112.2	12250.0	13530.9	16015.6	18134.7	18318.4	17524.5	15107.0	11967.9	7200.1	3132.6
72.5°	11098.6	11321.7	13060.2	15587.6	17490.1	17331.0	15679.4	12669.8	7608.5	2734.1	956.2
75°	7826.6	7925.0	10854.2	12930.6	14067.2	13616.2	11926.9	8167.7	3129.3	767.6	328.0
77.5°	4041.2	3993.7	6455.5	8579.4	10032.5	9565.1	7810.2	4228.2	1185.8	319.8	203.4
80°	2089.5	2123.9	2793.1	4495.5	6124.2	5635.4	4164.2	1959.9	631.4	177.1	155.8
82.5°	1171.0	1098.9	1605.7	1963.2	2863.6	2245.3	1597.5	1387.5	275.5	106.6	147.6
85°	213.2	223.1	880.7	1061.1	993.9	631.4	515.0	926.7	80.4	59.0	103.3
87.5°	3.3	3.3	170.6	305.1	193.5	88.6	162.4	132.8	16.4	23.0	18.0
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°	3808.3	3808.3	3808.3	3808.3	3808.3	3808.3	3808.3	3808.3	3808.3	3808.3	3808.3
2.5°	3790.3	3728.0	3611.5	3496.7	3350.7	3231.0	3150.6	3067.0	2981.7	2988.3	3008.0
5°	3724.7	3616.4	3386.8	3144.1	2911.2	2701.3	2494.6	2309.3	2233.8	2164.9	2168.2
7.5°	3659.1	3506.5	3170.3	2789.8	2437.2	2079.7	1820.5	1607.3	1494.1	1408.9	1384.3
10°	3629.6	3427.8	2971.9	2448.7	1948.4	1558.1	1225.2	1051.3	916.8	874.2	885.7
12.5°	3642.7	3388.5	2793.1	2140.3	1545.0	1085.8	852.9	764.3	734.8	729.8	726.6
15°	3667.3	3360.6	2617.6	1799.2	1135.0	806.9	716.7	700.3	697.0	693.8	695.4
17.5°	3700.1	3336.0	2430.6	1479.4	870.9	705.2	679.0	670.8	669.2	669.2	669.2
20°	3732.9	3308.1	2222.3	1194.0	726.6	665.9	649.5	644.6	642.9	642.9	641.3
22.5°	3770.6	3283.5	2010.8	938.1	669.2	638.0	623.2	620.0	618.3	616.7	616.7
25°	3824.7	3252.3	1786.1	767.6	633.1	611.8	597.0	593.7	592.1	585.5	587.2
27.5°	3896.9	3229.4	1554.8	662.6	600.3	579.0	569.1	564.2	560.9	556.0	557.6
30°	3995.3	3209.7	1308.8	605.2	562.6	544.5	534.7	531.4	528.1	523.2	523.2
32.5°	4165.9	3217.9	1049.7	559.3	528.1	506.8	497.0	493.7	490.4	485.5	485.5
35°	4421.7	3265.5	839.7	519.9	487.1	465.8	455.9	455.9	451.0	444.5	442.8
37.5°	4840.0	3386.8	674.1	482.2	447.7	428.1	416.6	413.3	408.4	398.5	396.9
40°	5333.6	3575.4	567.5	444.5	411.7	392.0	382.1	372.3	359.2	349.3	347.7
42.5°	5953.6	3769.0	492.0	406.7	377.2	359.2	347.7	331.3	311.6	298.5	296.9
45°	6599.8	3946.1	441.2	372.3	344.4	329.7	316.5	290.3	265.7	249.3	247.7
47.5°	7082.0	3978.9	400.2	339.5	316.5	301.8	283.7	250.9	218.1	203.4	198.5
50°	7310.0	3819.8	357.5	306.7	288.7	272.3	249.3	211.6	175.5	157.5	154.2
52.5°	7390.3	3544.3	323.1	277.2	260.8	241.1	213.2	170.6	137.8	119.7	118.1
55°	7357.5	3196.6	291.9	249.3	228.0	205.0	177.1	136.1	101.7	86.9	83.6
57.5°	7185.3	2753.7	260.8	221.4	195.2	172.2	141.0	101.7	68.9	55.8	54.1
60°	6721.2	2150.2	229.6	190.3	165.7	141.0	111.5	72.2	42.6	31.2	31.2
62.5°	5937.2	1595.8	200.1	159.1	139.4	113.2	78.7	45.9	23.0	16.4	14.8
65°	4961.3	1177.6	167.3	134.5	116.4	88.6	55.8	27.9	11.5	4.9	3.3
67.5°	3462.3	726.6	139.4	109.9	95.1	64.0	34.4	11.5	4.9	0.0	0.0
70°	1572.9	346.1	106.6	83.6	72.2	45.9	18.0	6.6	3.3	0.0	0.0
72.5°	488.8	182.1	75.4	60.7	49.2	29.5	9.8	4.9	3.3	0.0	0.0
75°	226.3	116.4	47.6	32.8	27.9	14.8	6.6	3.3	1.6	0.0	0.0
77.5°	168.9	90.2	27.9	18.0	14.8	9.8	4.9	3.3	1.6	0.0	0.0
80°	147.6	45.9	16.4	11.5	8.2	6.6	3.3	1.6	0.0	0.0	0.0
82.5°	132.8	23.0	9.8	6.6	4.9	3.3	1.6	1.6	0.0	0.0	0.0
85°	72.2	13.1	6.6	4.9	3.3	1.6	1.6	0.0	0.0	0.0	0.0
87.5°	13.1	6.6	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)