

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: P459348

Luminaire Tested: **GALN-SA8A-735-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26933 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

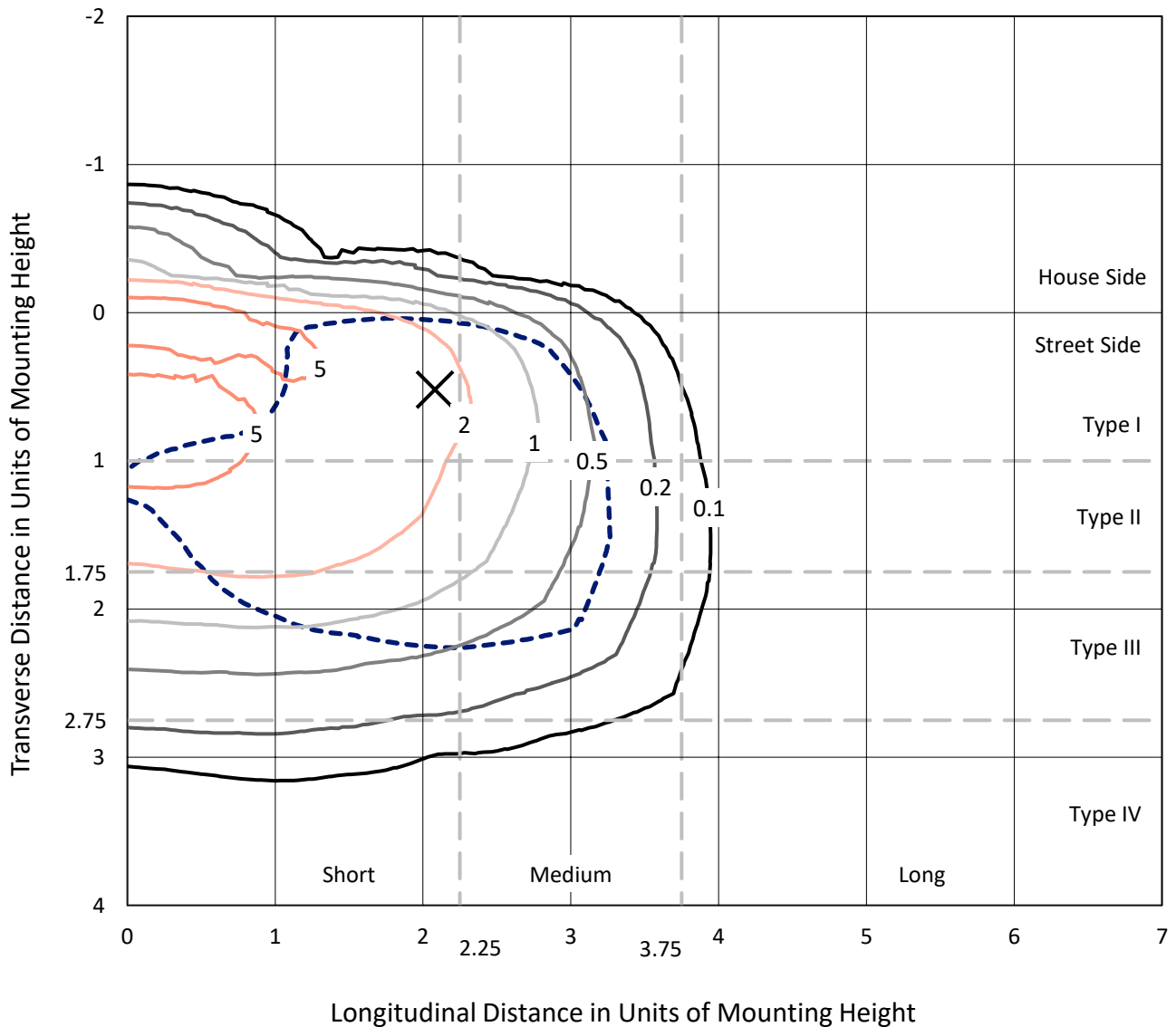
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459348
 CATALOG NUMBER: GALN-SA8A-735-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

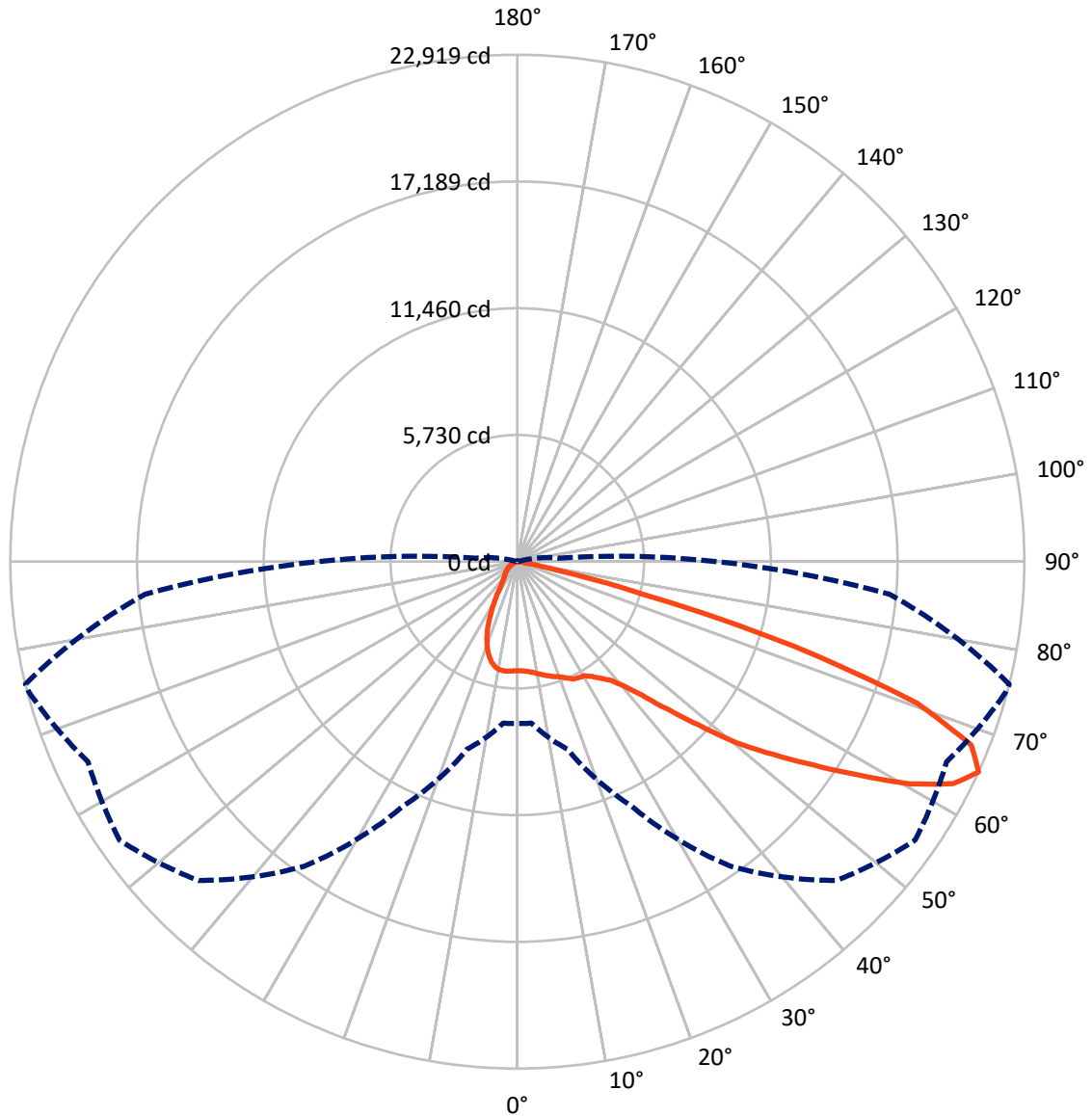
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Short - N/A

REPORT NUMBER: P459348
CATALOG NUMBER: GALN-SA8A-735-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P459348

CATALOG NUMBER: GALN-SA8A-735-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1945.1	0.0	1945.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	24987.9	0.0	24987.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	26933.0	0.0	26933.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.9	1.5
10°-20°	903.7	3.4
20°-30°	1456.2	5.4
30°-40°	2532.0	9.4
40°-50°	4183.9	15.5
50°-60°	6463.3	24.0
60°-70°	7892.6	29.3
70°-80°	2995.5	11.1
80°-90°	100.0	0.4
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°	26933.0	100.0
0°-180°	26933.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459348

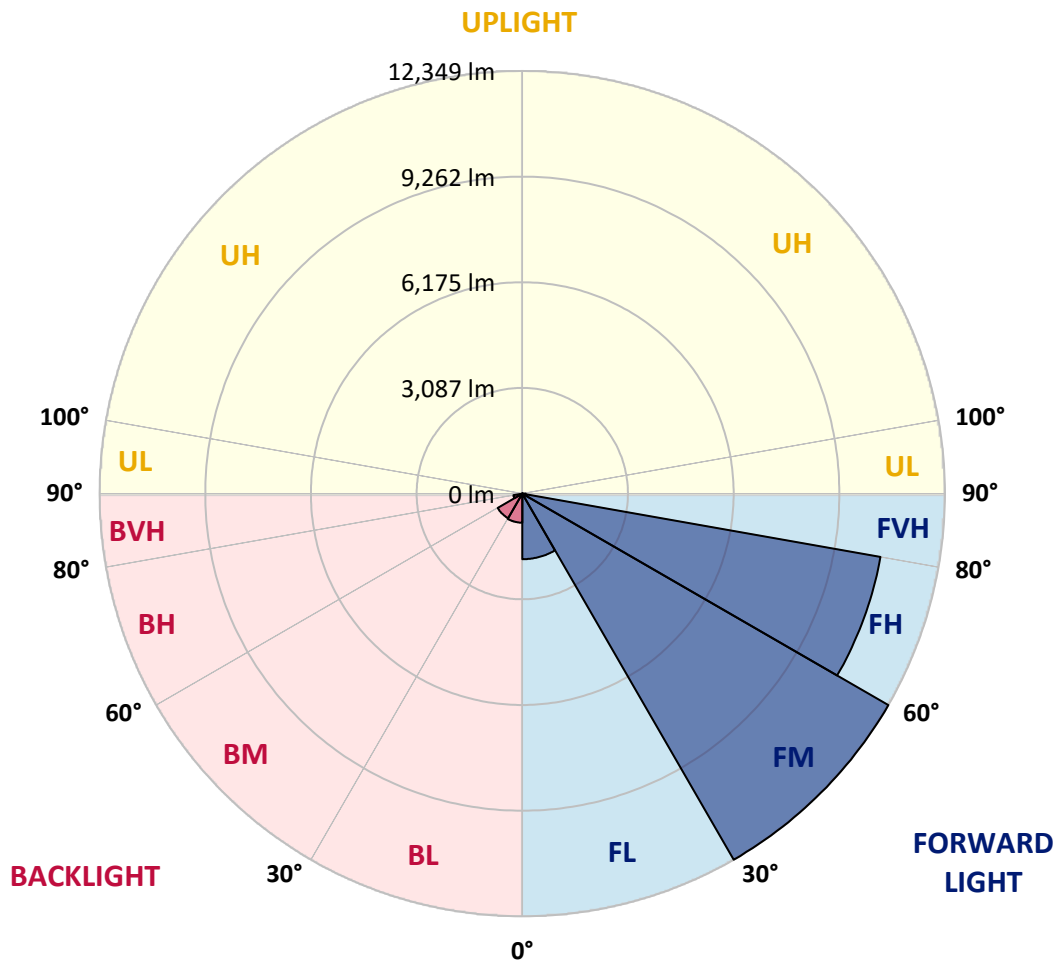
CATALOG NUMBER: GALN-SA8A-735-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1916.0	7.1			
FM (30°-60°)	12349.2	45.9			
FH (60°-80°)	10624.2	39.4			G4/12000
FVH (80°-90°)	98.6	0.4			G1/100
BL (0°-30°)	849.8	3.2	B2/1000		
BM (30°-60°)	830.0	3.1	B1/1000		
BH (60°-80°)	263.9	1.0	B1/500		G1/500
BVH (80°-90°)	1.4	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 III Short





REPORT NUMBER: P459348

CATALOG NUMBER: GALN-SA8A-735-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4926.9	4926.9	4926.9	4926.9	4926.9	4926.9	4926.9	4926.9	4926.9	4926.9	4926.9
2.5°	4708.2	4710.1	4721.5	4750.1	4793.8	4829.9	4860.4	4909.8	4944.0	4947.8	4959.2
5°	4383.1	4360.2	4383.1	4457.2	4523.8	4624.6	4748.2	4871.8	4982.1	4989.7	5042.9
7.5°	4018.0	4037.0	4073.1	4149.2	4274.7	4428.7	4607.4	4828.0	5037.2	5056.2	5160.8
10°	3647.2	3689.0	3747.9	3863.9	4038.9	4238.5	4481.9	4797.6	5124.7	5151.3	5331.9
12.5°	3304.9	3323.9	3396.2	3552.1	3768.9	4050.3	4386.9	4780.5	5221.6	5254.0	5514.5
15°	3042.5	3067.2	3129.9	3270.7	3512.2	3873.4	4308.9	4774.8	5316.7	5362.4	5697.0
17.5°	2993.0	3008.2	3034.9	3129.9	3341.0	3732.7	4238.5	4772.9	5408.0	5463.1	5866.3
20°	3196.5	3183.2	3156.6	3147.1	3263.1	3624.3	4187.2	4788.1	5495.5	5558.2	6045.0
22.5°	3706.1	3723.2	3567.3	3382.9	3344.8	3607.2	4179.6	4860.4	5634.3	5708.4	6244.7
25°	4788.1	4656.9	4413.5	3972.3	3639.6	3711.8	4265.2	5031.5	5795.9	5877.7	6425.3
27.5°	5984.2	5944.2	5565.8	4839.4	4219.5	3932.4	4417.3	5162.7	5849.2	5932.8	6528.0
30°	7159.3	7206.9	6773.3	5970.9	5061.9	4341.2	4559.9	5212.1	5896.7	5984.2	6659.2
32.5°	8248.9	8306.0	7925.6	7130.8	6054.5	5048.6	4805.2	5404.2	6096.4	6185.7	6877.9
35°	9106.5	9114.1	8827.0	8193.8	7138.4	5908.1	5335.7	5740.8	6366.4	6471.0	7109.9
37.5°	9893.7	9882.3	9545.8	9000.0	8041.6	6761.9	6003.2	6128.7	6674.4	6782.8	7444.6
40°	10477.5	10485.1	10376.7	9863.3	8884.0	7551.0	6531.8	6491.9	7191.6	7360.9	7931.3
42.5°	10867.3	10937.7	10990.9	10730.4	9943.2	8522.7	7343.8	7269.6	8089.2	8229.9	8619.7
45°	11183.0	11308.5	11574.7	11561.4	10960.5	9715.0	8458.1	8306.0	9361.3	9511.5	9496.3
47.5°	11413.1	11540.5	11981.6	12247.9	11917.0	10871.1	9859.5	9728.3	10880.6	11044.2	10464.2
50°	11531.0	11683.1	12246.0	12761.3	12664.3	11985.4	11456.8	11464.4	12715.6	12873.5	11586.1
52.5°	11255.2	11453.0	12386.7	13314.6	13502.9	13052.2	12953.3	13204.3	14349.1	14484.1	12599.6
55°	10374.8	10623.9	12194.6	13786.2	14474.6	14311.0	14653.3	15035.5	16134.6	16222.1	13639.8
57.5°	9817.7	10082.0	11628.0	14187.4	15642.1	15893.1	16435.1	16714.6	17977.2	18199.7	14834.0
60°	9348.0	9555.3	11162.1	14273.0	16828.7	17828.9	18355.6	18644.7	20251.5	20396.0	16147.9
62.5°	8566.5	8804.2	10374.8	13675.9	17425.8	19378.7	20470.1	20340.8	22010.4	22111.2	16954.2
65°	7309.5	7330.5	8777.5	12175.6	16809.7	20384.6	21955.2	21413.3	22850.9	22919.3	16891.4
67.5°	5455.5	5657.1	6752.4	9570.5	14198.8	19525.1	22436.3	21441.8	22320.3	22130.2	15550.8
70°	3514.1	3668.1	4577.0	6636.4	10237.9	16294.3	20840.9	19971.9	19589.7	19167.6	12728.9
72.5°	1622.0	1819.8	2719.2	3791.7	6071.6	11607.0	16918.1	16225.9	14100.0	13057.9	8091.1
75°	707.4	756.8	1342.5	2000.4	2846.6	6138.2	11154.5	10072.5	6368.3	5816.8	3238.3
77.5°	431.7	464.0	703.6	1072.5	1118.1	2338.9	6008.9	4394.5	1968.1	1736.1	878.5
80°	292.8	329.0	511.5	561.0	382.2	652.2	2255.2	1173.3	397.4	380.3	188.3
82.5°	142.6	180.6	378.4	313.8	165.4	209.2	656.0	251.0	116.0	108.4	66.6
85°	20.9	36.1	213.0	205.4	74.2	49.4	116.0	62.8	39.9	38.0	30.4
87.5°	0.0	0.0	72.3	32.3	7.6	7.6	13.3	13.3	15.2	13.3	15.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P459348
 CATALOG NUMBER: GALN-SA8A-735-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4926.9	4926.9	4926.9	4926.9	4926.9	4926.9	4926.9	4926.9	4926.9	4926.9	4926.9
2.5°	4964.9	4974.4	4938.3	4887.0	4831.8	4776.7	4698.7	4628.4	4586.5	4611.2	4550.4
5°	5054.3	5046.7	4951.6	4795.7	4588.4	4339.3	4092.1	3881.1	3812.6	3709.9	3698.5
7.5°	5177.9	5157.0	4955.4	4597.9	4130.2	3662.4	3206.0	2903.7	2730.6	2584.2	2588.0
10°	5350.9	5290.1	4911.7	4250.0	3479.8	2774.4	2192.5	1793.2	1620.1	1565.0	1521.2
12.5°	5529.7	5411.8	4790.0	3780.3	2709.7	1895.8	1333.0	1089.6	983.1	948.9	945.1
15°	5689.4	5503.1	4577.0	3215.5	1970.0	1211.3	908.9	829.1	815.8	817.7	815.8
17.5°	5847.3	5575.3	4282.3	2616.5	1338.7	869.0	781.5	762.5	768.2	775.8	773.9
20°	5978.5	5590.5	3905.8	1996.6	947.0	762.5	734.0	730.2	735.9	741.6	741.6
22.5°	6121.1	5602.0	3458.9	1382.4	773.9	709.3	694.1	694.1	701.7	709.3	711.2
25°	6227.6	5539.2	2924.6	992.6	682.7	657.9	650.3	652.2	659.8	663.6	661.7
27.5°	6244.7	5362.4	2357.9	760.6	619.9	595.2	587.6	595.2	585.7	591.4	587.6
30°	6259.9	5138.0	1783.6	640.8	562.9	524.8	513.4	502.0	494.4	484.9	483.0
32.5°	6307.4	4873.7	1302.6	576.2	509.6	467.8	441.2	408.8	384.1	376.5	374.6
35°	6328.3	4556.1	956.5	524.8	462.1	416.4	368.9	323.3	287.1	273.8	283.3
37.5°	6408.2	4248.1	741.6	486.8	420.2	363.2	302.3	245.3	211.1	203.5	207.3
40°	6571.7	3913.4	621.8	454.5	384.1	313.8	239.6	184.4	161.6	154.0	152.1
42.5°	6834.2	3580.6	553.3	424.0	348.0	264.3	188.3	144.5	125.5	119.8	119.8
45°	7153.6	3261.2	505.8	391.7	310.0	213.0	148.3	116.0	104.6	100.8	100.8
47.5°	7573.9	2981.6	465.9	359.4	268.1	169.2	119.8	100.8	93.2	95.1	97.0
50°	7999.8	2774.4	422.1	323.3	220.6	138.8	102.7	89.4	87.5	89.4	89.4
52.5°	8321.2	2652.7	363.2	273.8	173.0	116.0	91.3	83.7	81.8	78.0	78.0
55°	8754.7	2626.0	289.0	222.5	136.9	97.0	81.8	76.1	70.4	66.6	64.7
57.5°	9311.9	2656.5	222.5	173.0	106.5	79.9	72.3	62.8	55.1	47.5	47.5
60°	9658.0	2588.0	173.0	133.1	78.0	64.7	55.1	45.6	36.1	30.4	28.5
62.5°	9547.7	2299.0	136.9	98.9	55.1	47.5	36.1	30.4	20.9	15.2	13.3
65°	8979.1	1855.9	110.3	68.5	39.9	28.5	19.0	19.0	9.5	1.9	0.0
67.5°	7859.1	1374.8	87.5	45.6	22.8	13.3	9.5	5.7	0.0	0.0	0.0
70°	6396.8	992.6	68.5	28.5	13.3	9.5	3.8	1.9	0.0	0.0	0.0
72.5°	4061.7	568.6	53.2	17.1	9.5	3.8	0.0	0.0	0.0	0.0	0.0
75°	1570.7	222.5	36.1	11.4	3.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	445.0	104.6	20.9	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	116.0	45.6	11.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	55.1	19.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	32.3	7.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.2	1.9	0.0	0.0	0.0	0.0	0.0	0.0	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)