

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: P457695

Luminaire Tested: **GALN-SA9A-740-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457695
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-SA9A-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 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: 32459 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

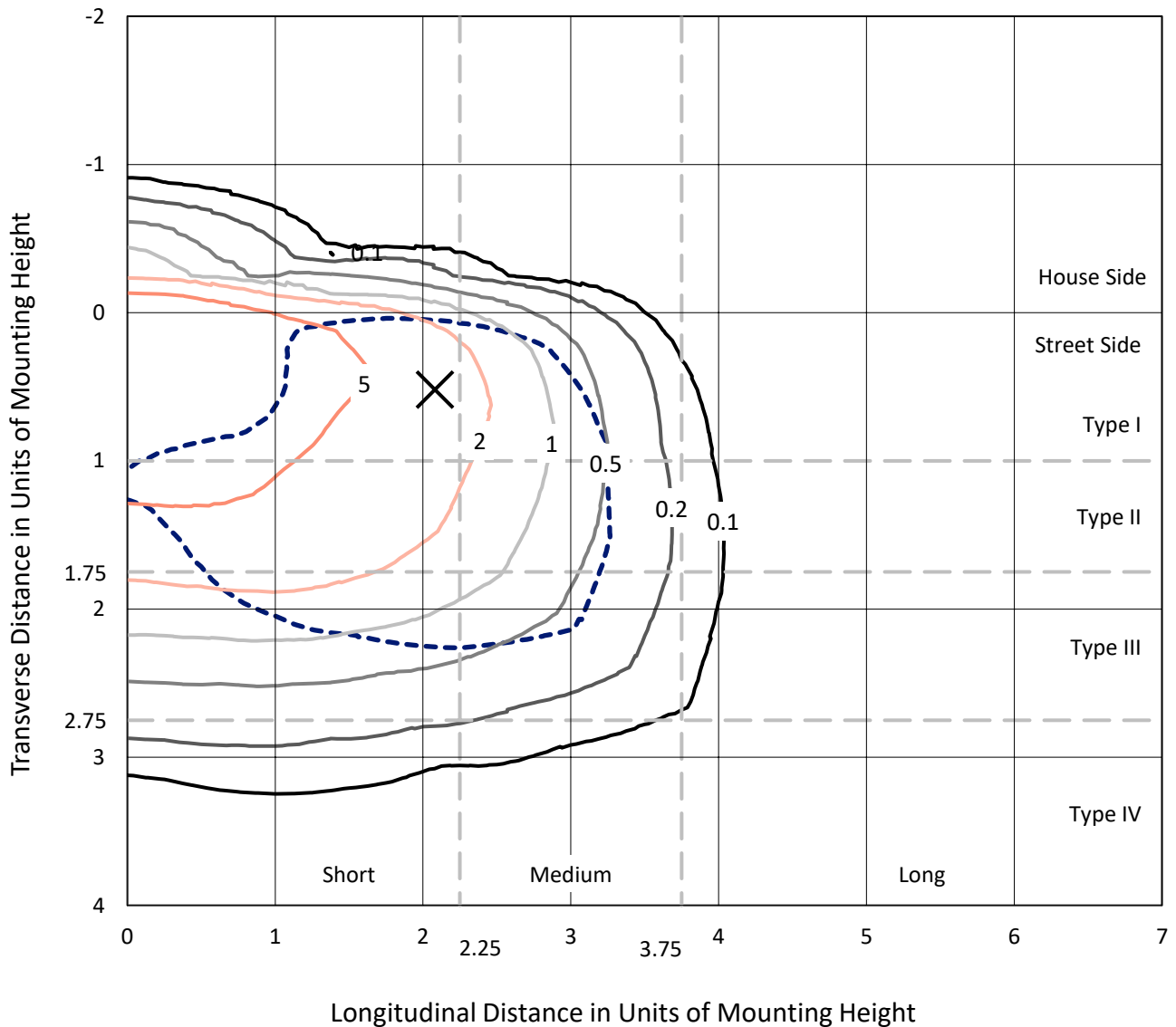
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457695
 CATALOG NUMBER: GALN-SA9A-740-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

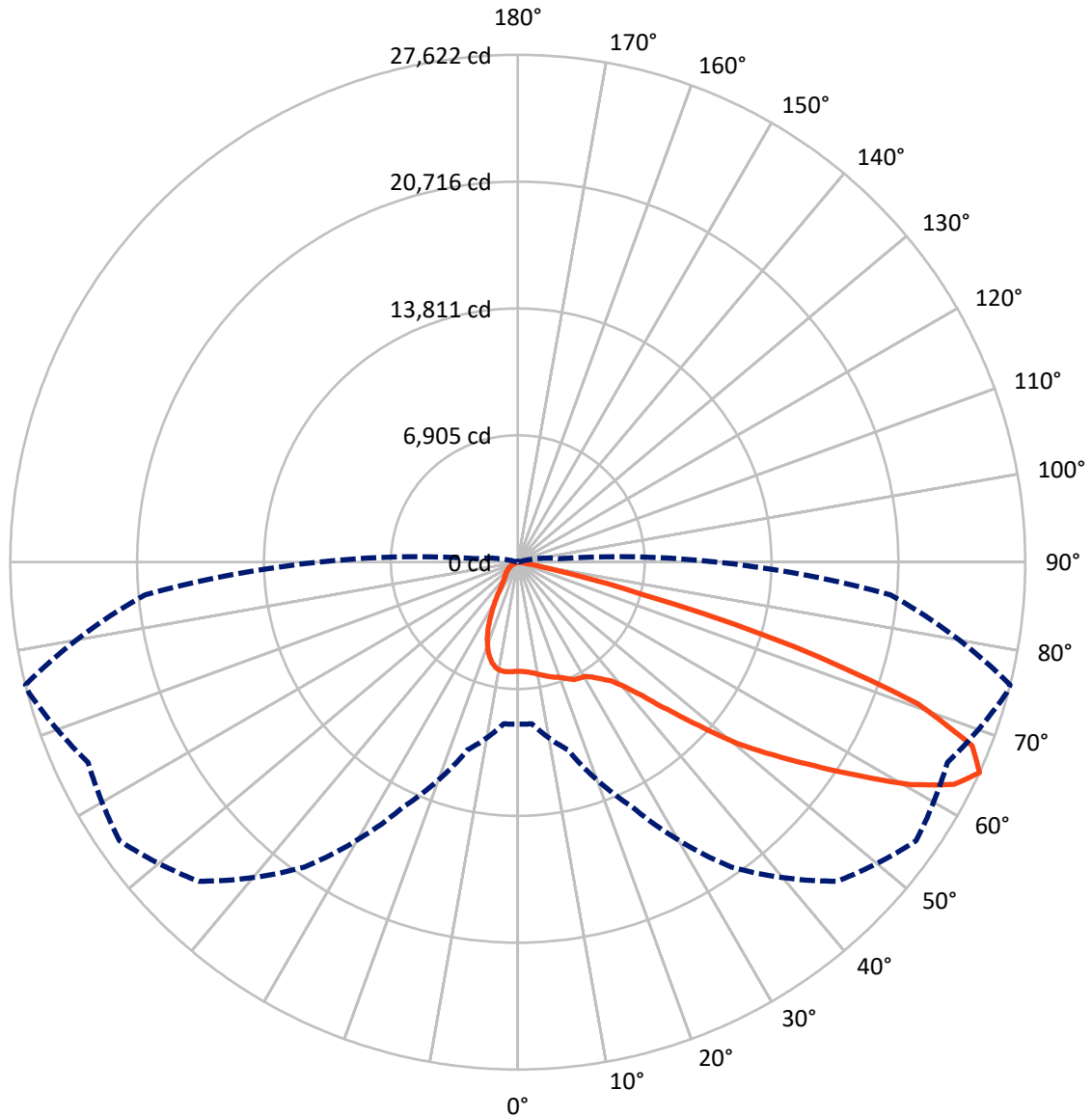
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type III - Short - N/A

REPORT NUMBER: P457695
CATALOG NUMBER: GALN-SA9A-740-U-T3R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P457695

CATALOG NUMBER: GALN-SA9A-740-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2344.2	0.0	2344.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	30114.8	0.0	30114.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	32459.0	0.0	32459.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.1	1.5
10°-20°	1089.1	3.4
20°-30°	1755.0	5.4
30°-40°	3051.5	9.4
40°-50°	5042.4	15.5
50°-60°	7789.4	24.0
60°-70°	9512.0	29.3
70°-80°	3610.1	11.1
80°-90°	120.5	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°	32459.0	100.0
0°-180°	32459.0	100.0



REPORT NUMBER: P457695

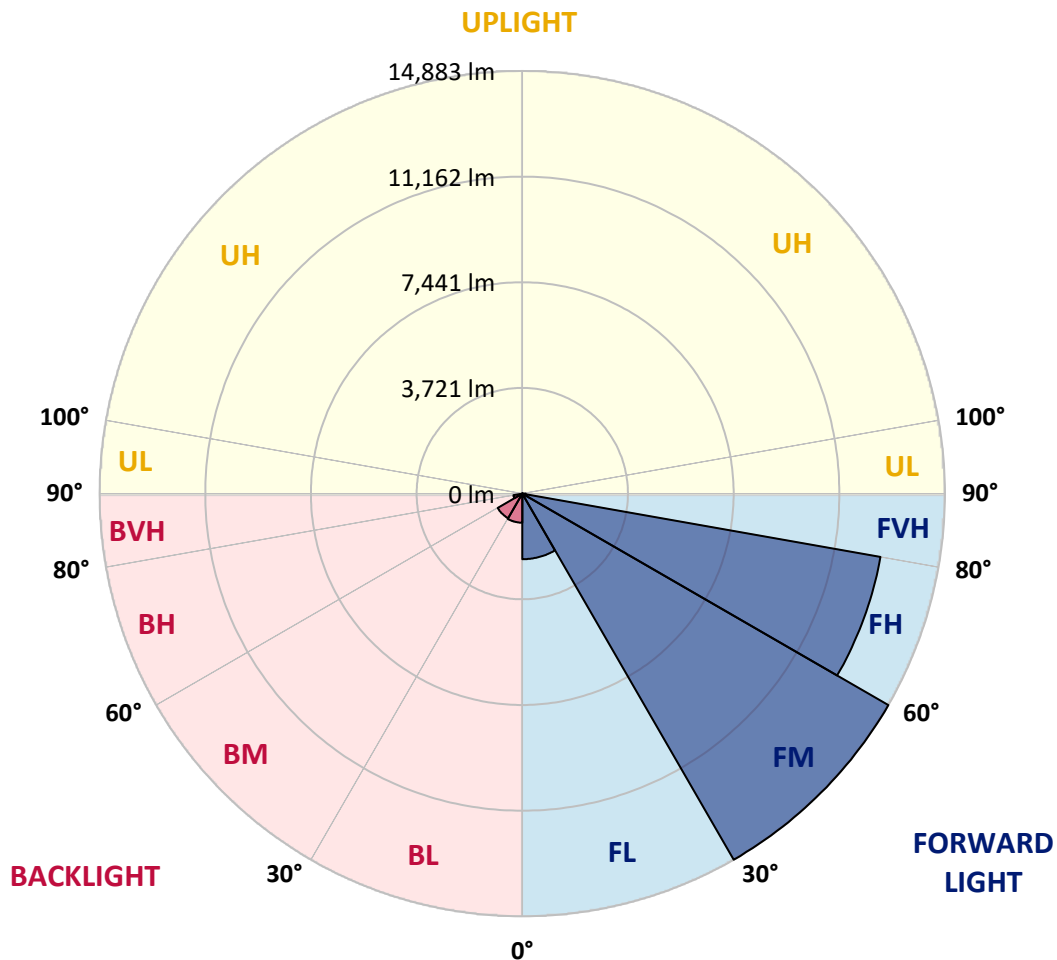
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2309.1	7.1			
FM	(30°-60°)	14882.9	45.9			
FH	(60°-80°)	12804.0	39.4			G5
FVH	(80°-90°)	118.8	0.4			G2/225
BL	(0°-30°)	1024.1	3.2	B3/2500		
BM	(30°-60°)	1000.3	3.1	B2/2500		
BH	(60°-80°)	318.1	1.0	B1/500		G1/500
BVH	(80°-90°)	1.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





REPORT NUMBER: P457695

CATALOG NUMBER: GALN-SA9A-740-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5937.8	5937.8	5937.8	5937.8	5937.8	5937.8	5937.8	5937.8	5937.8	5937.8	5937.8
2.5°	5674.2	5676.5	5690.3	5724.7	5777.4	5820.9	5857.6	5917.2	5958.4	5963.0	5976.7
5°	5282.4	5254.9	5282.4	5371.7	5451.9	5573.4	5722.4	5871.3	6004.2	6013.4	6077.6
7.5°	4842.4	4865.3	4908.8	5000.5	5151.7	5337.4	5552.8	5818.6	6070.7	6093.6	6219.7
10°	4395.5	4445.9	4516.9	4656.7	4867.6	5108.2	5401.5	5782.0	6176.1	6208.2	6425.9
12.5°	3983.0	4005.9	4093.0	4280.9	4542.1	4881.3	5286.9	5761.3	6293.0	6332.0	6645.9
15°	3666.7	3696.5	3772.1	3941.7	4232.8	4668.2	5193.0	5754.5	6407.6	6462.6	6865.9
17.5°	3607.1	3625.5	3657.5	3772.1	4026.5	4498.6	5108.2	5752.2	6517.6	6584.0	7069.9
20°	3852.3	3836.3	3804.2	3792.8	3932.6	4368.0	5046.3	5770.5	6623.0	6698.6	7285.3
22.5°	4466.5	4487.1	4299.2	4076.9	4031.1	4347.3	5037.2	5857.6	6790.3	6879.7	7525.9
25°	5770.5	5612.4	5319.0	4787.4	4386.3	4473.4	5140.3	6063.8	6985.1	7083.6	7743.6
27.5°	7212.0	7163.8	6707.8	5832.4	5085.3	4739.2	5323.6	6222.0	7049.3	7150.1	7867.4
30°	8628.2	8685.5	8163.0	7195.9	6100.5	5231.9	5495.5	6281.5	7106.6	7212.0	8025.5
32.5°	9941.4	10010.1	9551.8	8593.9	7296.8	6084.5	5791.1	6513.0	7347.2	7454.9	8289.1
35°	10974.9	10984.1	10638.1	9874.9	8603.0	7120.3	6430.5	6918.6	7672.6	7798.6	8568.7
37.5°	11923.7	11909.9	11504.3	10846.6	9691.6	8149.3	7234.9	7386.1	8043.9	8174.5	8972.0
40°	12627.3	12636.4	12505.8	11887.0	10706.8	9100.3	7872.0	7823.9	8667.2	8871.2	9558.7
42.5°	13097.0	13181.8	13246.0	12932.0	11983.3	10271.4	8850.5	8761.2	9748.9	9918.5	10388.3
45°	13477.5	13628.7	13949.6	13933.5	13209.3	11708.3	10193.5	10010.1	11282.0	11463.1	11444.7
47.5°	13754.8	13908.3	14440.0	14760.8	14362.1	13101.6	11882.4	11724.3	13113.1	13310.2	12611.2
50°	13896.9	14080.2	14758.5	15379.6	15262.7	14444.6	13807.5	13816.6	15324.6	15514.8	13963.3
52.5°	13564.6	13802.9	14928.1	16046.5	16273.3	15730.2	15611.0	15913.5	17293.1	17455.9	15184.8
55°	12503.5	12803.7	14696.7	16614.8	17444.4	17247.3	17659.8	18120.4	19445.0	19550.5	16438.3
57.5°	11832.0	12150.6	14013.7	17098.4	18851.5	19154.0	19807.1	20144.0	21665.7	21933.8	17877.5
60°	11266.0	11515.8	13452.3	17201.5	20281.5	21487.0	22121.8	22470.1	24406.6	24580.7	19461.1
62.5°	10324.1	10610.6	12503.5	16481.9	21001.1	23354.7	24670.1	24514.3	26526.4	26647.9	20432.8
65°	8809.3	8834.5	10578.5	14673.7	20258.6	24567.0	26459.9	25806.8	27539.3	27621.8	20357.1
67.5°	6574.9	6817.8	8137.8	11534.1	17112.1	23531.1	27039.7	25841.2	26899.9	26670.8	18741.5
70°	4235.1	4420.7	5516.1	7998.0	12338.5	19637.6	25117.0	24069.7	23609.1	23100.3	15340.6
72.5°	1954.8	2193.2	3277.1	4569.6	7317.4	13988.5	20389.2	19555.1	16992.9	15737.1	9751.2
75°	852.5	912.1	1617.9	2410.9	3430.7	7397.6	13443.1	12139.1	7674.9	7010.3	3902.8
77.5°	520.2	559.2	847.9	1292.5	1347.5	2818.8	7241.8	5296.1	2371.9	2092.3	1058.8
80°	352.9	396.5	616.5	676.1	460.6	786.1	2718.0	1414.0	479.0	458.3	226.9
82.5°	171.9	217.7	456.0	378.1	199.4	252.1	790.6	302.5	139.8	130.6	80.2
85°	25.2	43.5	256.7	247.5	89.4	59.6	139.8	75.6	48.1	45.8	36.7
87.5°	0.0	0.0	87.1	39.0	9.2	9.2	16.0	16.0	18.3	16.0	18.3
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°	5937.8	5937.8	5937.8	5937.8	5937.8	5937.8	5937.8	5937.8	5937.8	5937.8	5937.8
2.5°	5983.6	5995.1	5951.5	5889.7	5823.2	5756.7	5662.8	5578.0	5527.6	5557.4	5484.0
5°	6091.3	6082.2	5967.6	5779.7	5529.9	5229.7	4931.7	4677.4	4594.9	4471.1	4457.4
7.5°	6240.3	6215.1	5972.2	5541.3	4977.6	4413.8	3863.8	3499.4	3290.9	3114.4	3119.0
10°	6448.8	6375.5	5919.5	5121.9	4193.8	3343.6	2642.3	2161.1	1952.5	1886.1	1833.4
12.5°	6664.3	6522.2	5772.8	4555.9	3265.7	2284.8	1606.5	1313.1	1184.8	1143.6	1139.0
15°	6856.8	6632.2	5516.1	3875.3	2374.2	1459.8	1095.4	999.2	983.1	985.4	983.1
17.5°	7047.0	6719.3	5160.9	3153.4	1613.4	1047.3	941.9	919.0	925.8	935.0	932.7
20°	7205.1	6737.6	4707.1	2406.3	1141.3	919.0	884.6	880.0	886.9	893.8	893.8
22.5°	7377.0	6751.3	4168.6	1666.1	932.7	854.8	836.5	836.5	845.6	854.8	857.1
25°	7505.3	6675.7	3524.6	1196.3	822.7	792.9	783.8	786.1	795.2	799.8	797.5
27.5°	7525.9	6462.6	2841.7	916.7	747.1	717.3	708.1	717.3	705.8	712.7	708.1
30°	7544.3	6192.2	2149.6	772.3	678.3	632.5	618.8	605.0	595.8	584.4	582.1
32.5°	7601.6	5873.6	1569.8	694.4	614.2	563.8	531.7	492.7	462.9	453.8	451.5
35°	7626.8	5490.9	1152.7	632.5	556.9	501.9	444.6	389.6	346.0	330.0	341.5
37.5°	7723.0	5119.7	893.8	586.7	506.5	437.7	364.4	295.6	254.4	245.2	249.8
40°	7920.1	4716.3	749.4	547.7	462.9	378.1	288.8	222.3	194.8	185.6	183.3
42.5°	8236.4	4315.3	666.9	511.0	419.4	318.5	226.9	174.2	151.3	144.4	144.4
45°	8621.4	3930.3	609.6	472.1	373.5	256.7	178.8	139.8	126.0	121.5	121.5
47.5°	9127.8	3593.4	561.5	433.1	323.1	204.0	144.4	121.5	112.3	114.6	116.9
50°	9641.2	3343.6	508.8	389.6	265.8	167.3	123.8	107.7	105.4	107.7	107.7
52.5°	10028.5	3196.9	437.7	330.0	208.5	139.8	110.0	100.8	98.5	94.0	94.0
55°	10551.0	3164.8	348.3	268.1	165.0	116.9	98.5	91.7	84.8	80.2	77.9
57.5°	11222.4	3201.5	268.1	208.5	128.3	96.3	87.1	75.6	66.5	57.3	57.3
60°	11639.5	3119.0	208.5	160.4	94.0	77.9	66.5	55.0	43.5	36.7	34.4
62.5°	11506.6	2770.7	165.0	119.2	66.5	57.3	43.5	36.7	25.2	18.3	16.0
65°	10821.4	2236.7	132.9	82.5	48.1	34.4	22.9	22.9	11.5	2.3	0.0
67.5°	9471.6	1656.9	105.4	55.0	27.5	16.0	11.5	6.9	0.0	0.0	0.0
70°	7709.3	1196.3	82.5	34.4	16.0	11.5	4.6	2.3	0.0	0.0	0.0
72.5°	4895.1	685.2	64.2	20.6	11.5	4.6	0.0	0.0	0.0	0.0	0.0
75°	1892.9	268.1	43.5	13.8	4.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	536.3	126.0	25.2	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	139.8	55.0	13.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	66.5	22.9	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	39.0	9.2	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.3	2.3	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)