

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: P455810

Luminaire Tested: **GALN-SA7A-730-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455810
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-SA7A-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 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: 22712 lumens
Efficiency: N/A
Efficacy: 105.6 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

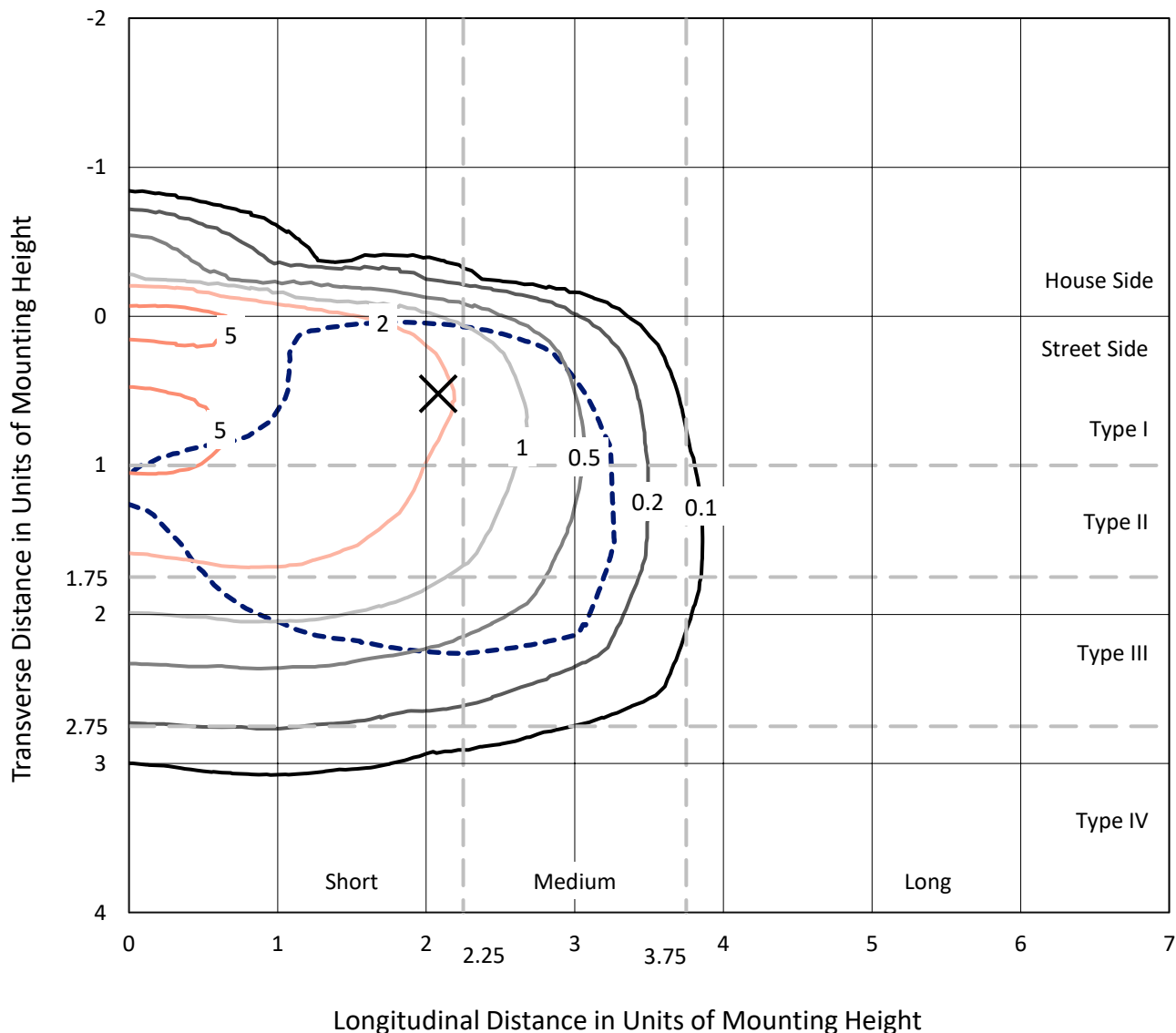
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455810
 CATALOG NUMBER: GALN-SA7A-730-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

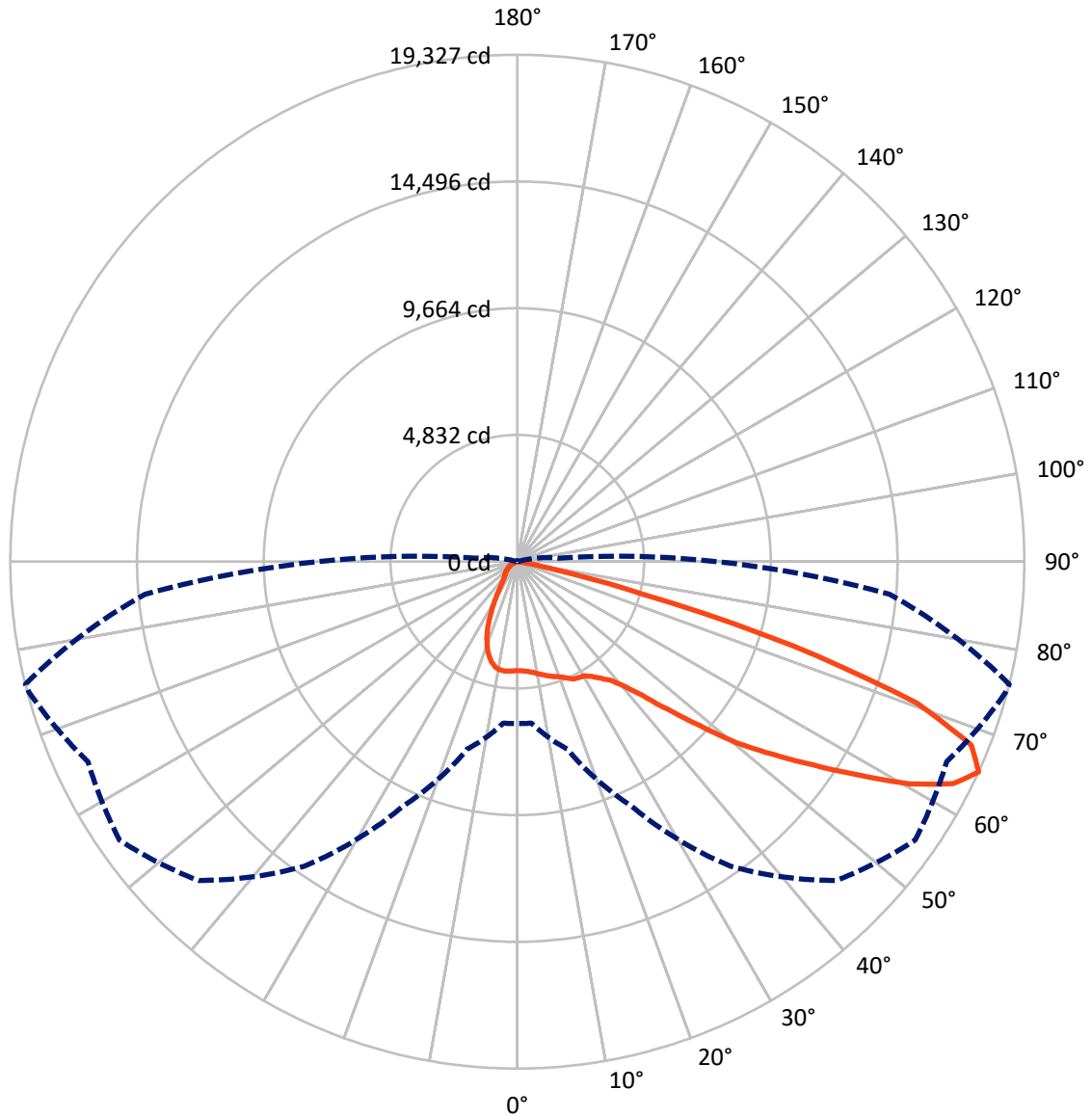
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Short - N/A

REPORT NUMBER: P455810
CATALOG NUMBER: GALN-SA7A-730-U-T3R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P455810

CATALOG NUMBER: GALN-SA7A-730-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1640.3	0.0	1640.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	21071.7	0.0	21071.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	22712.0	0.0	22712.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.2	1.5
10°-20°	762.1	3.4
20°-30°	1228.0	5.4
30°-40°	2135.2	9.4
40°-50°	3528.2	15.5
50°-60°	5450.4	24.0
60°-70°	6655.7	29.3
70°-80°	2526.0	11.1
80°-90°	84.3	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°	22712.0	100.0
0°-180°	22712.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455810

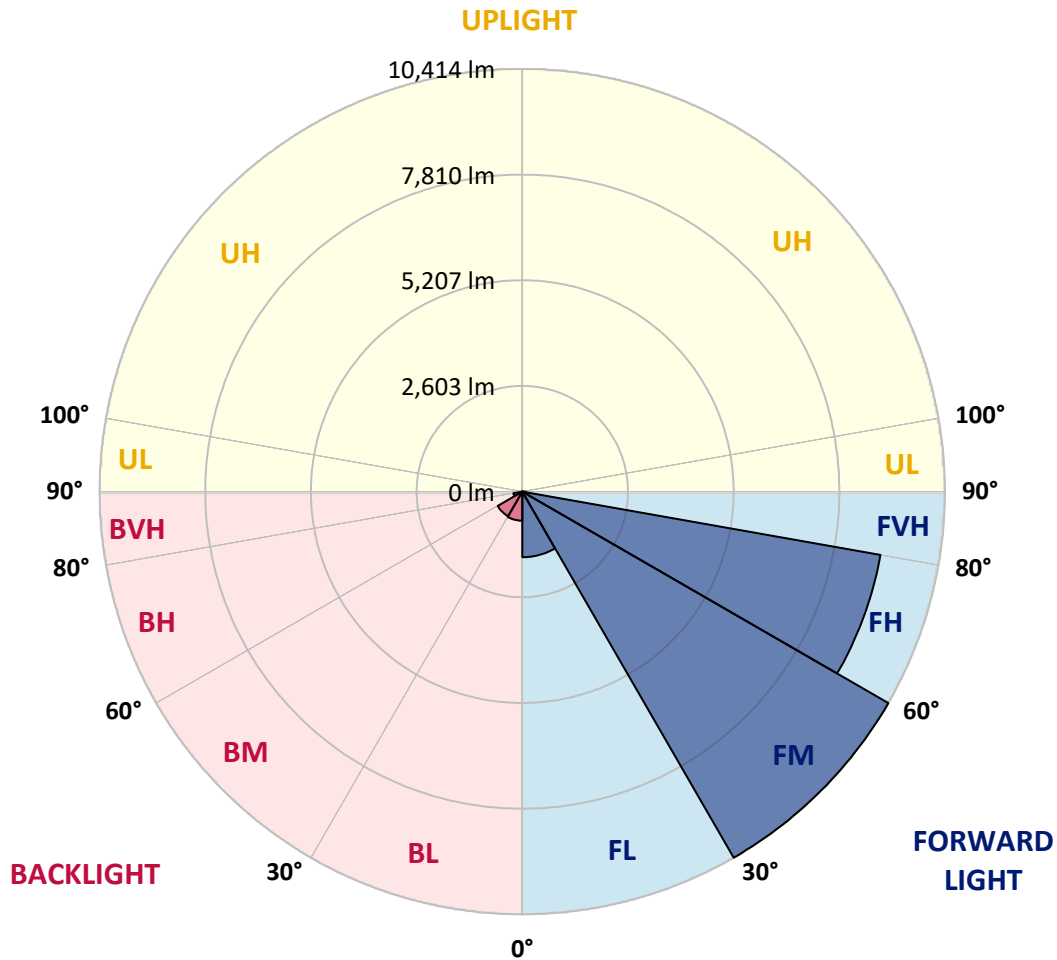
CATALOG NUMBER: GALN-SA7A-730-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1615.7	7.1			
FM (30°-60°)	10413.8	45.9			
FH (60°-80°)	8959.1	39.4			G4/12000
FVH (80°-90°)	83.1	0.4			G1/100
BL (0°-30°)	716.6	3.2	B2/1000		
BM (30°-60°)	699.9	3.1	B1/1000		
BH (60°-80°)	222.6	1.0	B1/500		G1/500
BVH (80°-90°)	1.2	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 III Short





REPORT NUMBER: P455810

CATALOG NUMBER: GALN-SA7A-730-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4154.7	4154.7	4154.7	4154.7	4154.7	4154.7	4154.7	4154.7	4154.7	4154.7	4154.7
2.5°	3970.3	3971.9	3981.6	4005.6	4042.5	4073.0	4098.6	4140.3	4169.2	4172.4	4182.0
5°	3696.1	3676.9	3696.1	3758.7	3814.8	3899.8	4004.0	4108.2	4201.3	4207.7	4252.6
7.5°	3388.3	3404.3	3434.8	3498.9	3604.7	3734.6	3885.4	4071.4	4247.8	4263.8	4352.0
10°	3075.6	3110.9	3160.6	3258.4	3405.9	3574.3	3779.5	4045.7	4321.5	4344.0	4496.3
12.5°	2786.9	2803.0	2863.9	2995.4	3178.2	3415.5	3699.3	4031.3	4403.3	4430.6	4650.2
15°	2565.7	2586.5	2639.4	2758.1	2961.7	3266.4	3633.6	4026.5	4483.5	4522.0	4804.2
17.5°	2524.0	2536.8	2559.2	2639.4	2817.4	3147.7	3574.3	4024.9	4560.4	4606.9	4946.9
20°	2695.5	2684.3	2661.9	2653.8	2751.7	3056.3	3531.0	4037.7	4634.2	4687.1	5097.6
22.5°	3125.3	3139.7	3008.2	2852.7	2820.6	3041.9	3524.6	4098.6	4751.3	4813.8	5266.0
25°	4037.7	3927.0	3721.8	3349.8	3069.2	3130.1	3596.7	4242.9	4887.6	4956.5	5418.3
27.5°	5046.3	5012.6	4693.5	4081.0	3558.2	3316.1	3725.0	4353.6	4932.5	5003.0	5504.9
30°	6037.3	6077.4	5711.8	5035.1	4268.6	3660.9	3845.3	4395.3	4972.6	5046.3	5615.6
32.5°	6956.1	7004.2	6683.5	6013.2	5105.6	4257.4	4052.1	4557.2	5140.9	5216.3	5800.0
35°	7679.3	7685.7	7443.6	6909.6	6019.7	4982.2	4499.5	4841.1	5368.6	5456.8	5995.6
37.5°	8343.2	8333.6	8049.7	7589.5	6781.3	5702.2	5062.3	5168.2	5628.4	5719.8	6277.8
40°	8835.5	8841.9	8750.5	8317.5	7491.7	6367.6	5508.1	5474.5	6064.6	6207.3	6688.3
42.5°	9164.2	9223.5	9268.4	9048.7	8384.9	7187.0	6192.8	6130.3	6821.4	6940.1	7268.8
45°	9430.4	9536.2	9760.7	9749.5	9242.8	8192.4	7132.5	7004.2	7894.2	8020.9	8008.0
47.5°	9624.4	9731.8	10103.9	10328.3	10049.3	9167.4	8314.3	8203.7	9175.4	9313.3	8824.2
50°	9723.8	9852.1	10326.7	10761.3	10679.5	10107.1	9661.3	9667.7	10722.8	10855.9	9770.3
52.5°	9491.3	9658.1	10445.4	11227.9	11386.7	11006.6	10923.3	11134.9	12100.2	12214.1	10625.0
55°	8748.9	8958.9	10283.4	11625.6	12206.1	12068.2	12356.8	12679.1	13606.0	13679.7	11502.1
57.5°	8279.0	8501.9	9805.6	11963.9	13190.6	13402.3	13859.3	14095.0	15159.8	15347.4	12509.1
60°	7883.0	8057.7	9412.7	12036.1	14191.3	15034.7	15478.9	15722.6	17077.6	17199.5	13617.2
62.5°	7223.9	7424.3	8748.9	11532.6	14694.8	16341.6	17262.0	17153.0	18560.9	18645.9	14297.1
65°	6164.0	6181.6	7401.9	10267.4	14175.2	17189.9	18514.4	18057.4	19269.6	19327.4	14244.2
67.5°	4600.5	4770.5	5694.1	8070.6	11973.6	16465.1	18920.1	18081.4	18822.3	18661.9	13113.7
70°	2963.3	3093.2	3859.7	5596.3	8633.4	13740.7	17574.7	16841.9	16519.6	16163.6	10734.0
72.5°	1367.8	1534.6	2293.0	3197.4	5120.1	9788.0	14266.6	13682.9	11890.2	11011.4	6823.0
75°	596.5	638.2	1132.1	1686.9	2400.5	5176.2	9406.3	8493.9	5370.2	4905.2	2730.8
77.5°	364.0	391.3	593.3	904.4	942.9	1972.3	5067.2	3705.8	1659.7	1464.0	740.8
80°	246.9	277.4	431.3	473.0	322.3	550.0	1901.8	989.4	335.1	320.7	158.7
82.5°	120.3	152.3	319.1	264.6	139.5	176.4	553.2	211.7	97.8	91.4	56.1
85°	17.6	30.5	179.6	173.2	62.5	41.7	97.8	52.9	33.7	32.1	25.7
87.5°	0.0	0.0	60.9	27.3	6.4	6.4	11.2	11.2	12.8	11.2	12.8
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: P455810

CATALOG NUMBER: GALN-SA7A-730-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4154.7	4154.7	4154.7	4154.7	4154.7	4154.7	4154.7	4154.7	4154.7	4154.7	4154.7
2.5°	4186.8	4194.8	4164.4	4121.1	4074.6	4028.1	3962.3	3903.0	3867.7	3888.6	3837.3
5°	4262.2	4255.8	4175.6	4044.1	3869.3	3659.3	3450.8	3272.8	3215.1	3128.5	3118.9
7.5°	4366.4	4348.8	4178.8	3877.3	3482.9	3088.4	2703.6	2448.6	2302.7	2179.2	2182.4
10°	4512.3	4461.0	4141.9	3583.9	2934.5	2339.6	1848.9	1512.1	1366.2	1319.7	1282.8
12.5°	4663.1	4563.7	4039.3	3187.8	2285.0	1598.7	1124.1	918.8	829.0	800.2	797.0
15°	4797.8	4640.6	3859.7	2711.6	1661.3	1021.4	766.5	699.1	687.9	689.5	687.9
17.5°	4930.9	4701.6	3611.2	2206.5	1128.9	732.8	659.1	643.0	647.8	654.2	652.6
20°	5041.5	4714.4	3293.7	1683.7	798.6	643.0	619.0	615.8	620.6	625.4	625.4
22.5°	5161.8	4724.0	2916.8	1165.8	652.6	598.1	585.3	585.3	591.7	598.1	599.7
25°	5251.6	4671.1	2466.2	837.0	575.7	554.8	548.4	550.0	556.4	559.6	558.0
27.5°	5266.0	4522.0	1988.4	641.4	522.8	501.9	495.5	501.9	493.9	498.7	495.5
30°	5278.8	4332.7	1504.1	540.4	474.6	442.6	433.0	423.3	416.9	408.9	407.3
32.5°	5318.9	4109.9	1098.4	485.9	429.7	394.5	372.0	344.8	323.9	317.5	315.9
35°	5336.6	3842.1	806.6	442.6	389.7	351.2	311.1	272.6	242.1	230.9	238.9
37.5°	5403.9	3582.3	625.4	410.5	354.4	306.3	255.0	206.9	178.0	171.6	174.8
40°	5541.8	3300.1	524.4	383.2	323.9	264.6	202.0	155.5	136.3	129.9	128.3
42.5°	5763.1	3019.4	466.6	357.6	293.4	222.9	158.7	121.9	105.8	101.0	101.0
45°	6032.5	2750.1	426.5	330.3	261.4	179.6	125.1	97.8	88.2	85.0	85.0
47.5°	6386.9	2514.3	392.9	303.1	226.1	142.7	101.0	85.0	78.6	80.2	81.8
50°	6746.1	2339.6	356.0	272.6	186.0	117.1	86.6	75.4	73.8	75.4	75.4
52.5°	7017.1	2236.9	306.3	230.9	145.9	97.8	77.0	70.6	69.0	65.7	65.7
55°	7382.7	2214.5	243.7	187.6	115.5	81.8	69.0	64.1	59.3	56.1	54.5
57.5°	7852.5	2240.1	187.6	145.9	89.8	67.3	60.9	52.9	46.5	40.1	40.1
60°	8144.3	2182.4	145.9	112.2	65.7	54.5	46.5	38.5	30.5	25.7	24.1
62.5°	8051.3	1938.7	115.5	83.4	46.5	40.1	30.5	25.7	17.6	12.8	11.2
65°	7571.9	1565.0	93.0	57.7	33.7	24.1	16.0	16.0	8.0	1.6	0.0
67.5°	6627.4	1159.4	73.8	38.5	19.2	11.2	8.0	4.8	0.0	0.0	0.0
70°	5394.3	837.0	57.7	24.1	11.2	8.0	3.2	1.6	0.0	0.0	0.0
72.5°	3425.1	479.5	44.9	14.4	8.0	3.2	0.0	0.0	0.0	0.0	0.0
75°	1324.5	187.6	30.5	9.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	375.2	88.2	17.6	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	97.8	38.5	9.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	46.5	16.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.3	6.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.8	1.6	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)