

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: P456421

Luminaire Tested: **GALN-SA7C-830-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456421
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28020 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

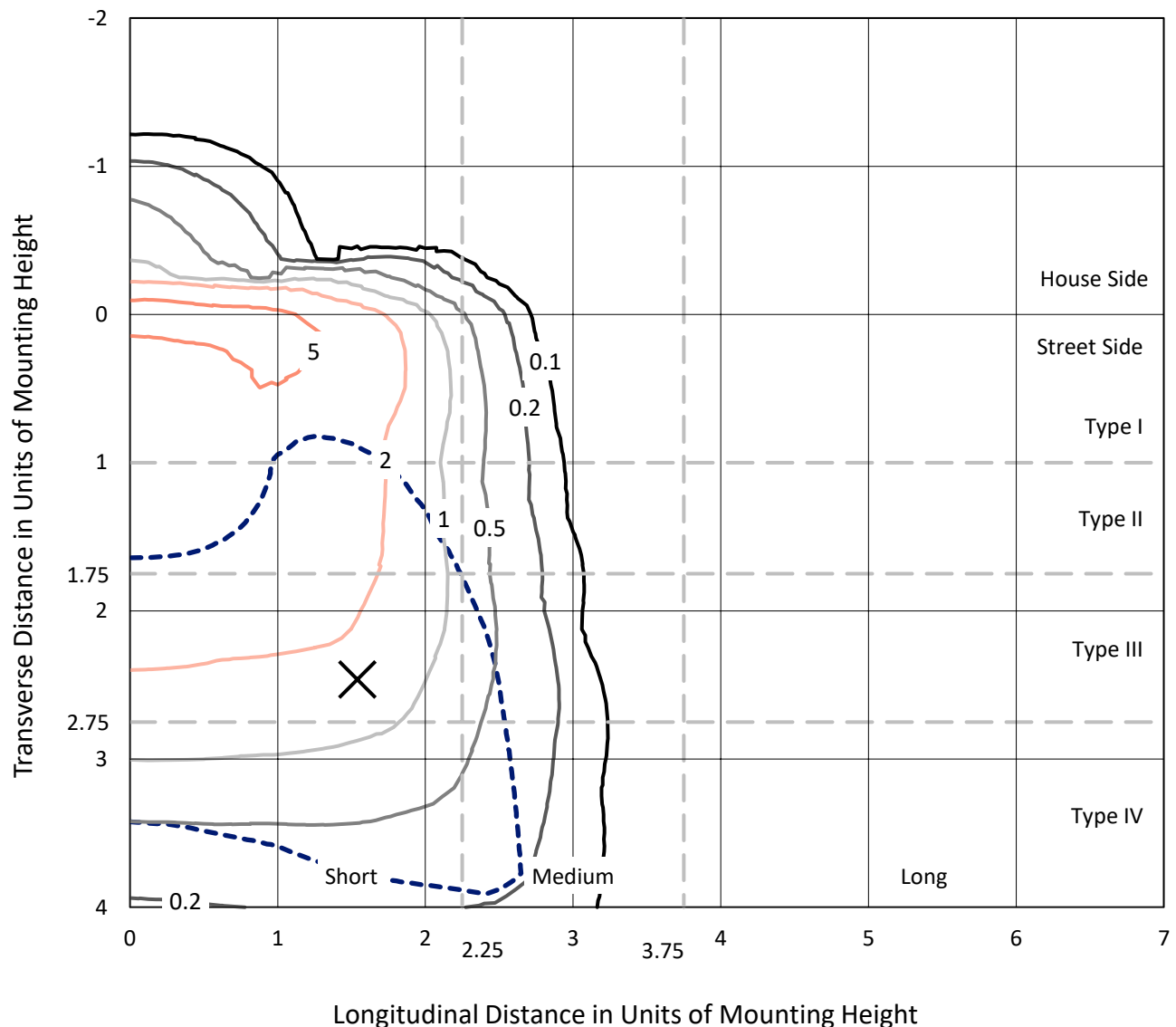
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456421
 CATALOG NUMBER: GALN-SA7C-830-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

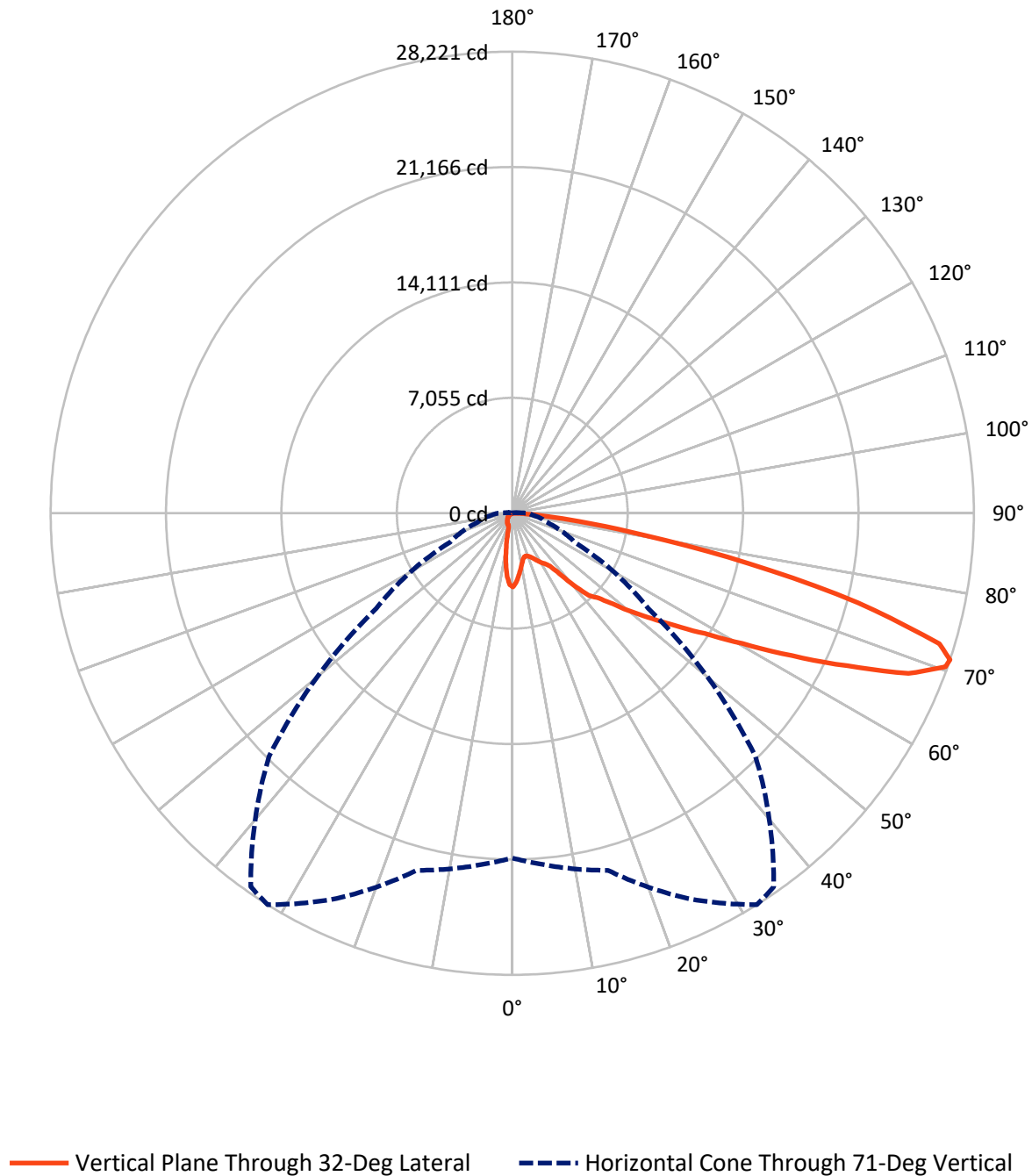
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P456421
CATALOG NUMBER: GALN-SA7C-830-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P456421

CATALOG NUMBER: GALN-SA7C-830-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2347.0	0.0	2347.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	25673.0	0.0	25673.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	28020.0	0.0	28020.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.4	1.3
10°-20°	795.2	2.8
20°-30°	1237.1	4.4
30°-40°	2061.0	7.4
40°-50°	3833.8	13.7
50°-60°	6155.3	22.0
60°-70°	8279.2	29.5
70°-80°	4912.2	17.5
80°-90°	379.7	1.4
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°	28020.0	100.0
0°-180°	28020.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456421

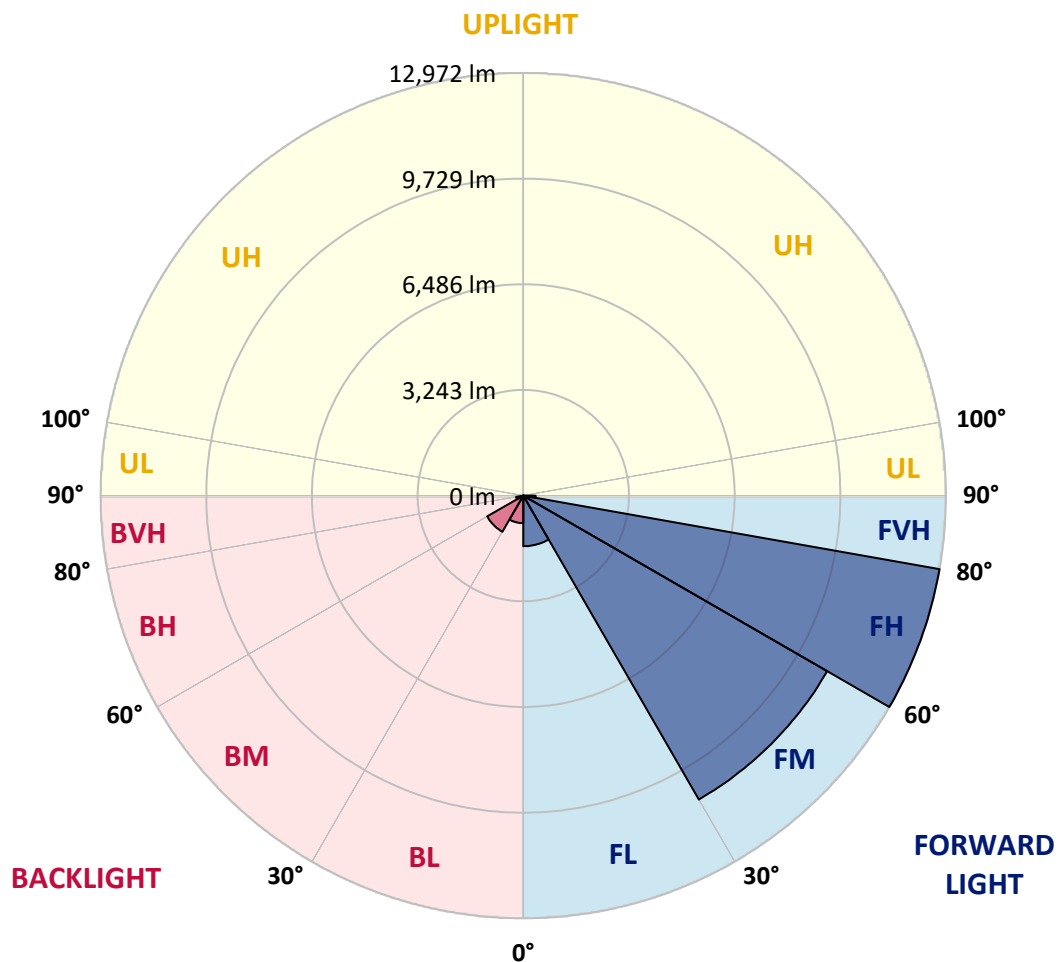
CATALOG NUMBER: GALN-SA7C-830-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1553.1	5.5			
FM	(30°-60°)	10769.9	38.4			
FH	(60°-80°)	12971.9	46.3			G5
FVH	(80°-90°)	378.2	1.3			G3/500
BL	(0°-30°)	845.7	3.0	B2/1000		
BM	(30°-60°)	1280.3	4.6	B2/2500		
BH	(60°-80°)	219.5	0.8	B1/500		G1/500
BVH	(80°-90°)	1.5	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-G5

Type IV Short





REPORT NUMBER: P456421

CATALOG NUMBER: GALN-SA7C-830-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	4506.1	4506.1	4506.1	4506.1	4506.1	4506.1	4506.1	4506.1	4506.1	4506.1	4506.1
2.5°	4179.1	4222.1	4215.7	4230.7	4267.3	4282.4	4323.2	4368.4	4430.8	4473.8	4501.8
5°	3742.5	3774.8	3779.1	3854.3	3890.9	3931.8	4052.2	4183.4	4329.7	4445.8	4523.3
7.5°	3275.8	3293.0	3327.4	3426.3	3518.8	3559.7	3742.5	3970.5	4200.6	4417.9	4557.7
10°	2890.8	2910.1	2972.5	3077.9	3163.9	3217.7	3471.5	3757.6	4080.2	4402.8	4607.1
12.5°	2671.4	2682.1	2705.8	2800.4	2910.1	2968.2	3241.3	3568.3	3983.4	4409.3	4691.0
15°	2656.3	2652.0	2624.1	2662.8	2761.7	2821.9	3088.6	3439.2	3897.4	4430.8	4790.0
17.5°	2735.9	2725.1	2658.5	2658.5	2740.2	2789.7	3024.1	3370.4	3854.3	4480.2	4929.8
20°	2858.5	2841.3	2731.6	2723.0	2802.6	2854.2	3062.8	3374.7	3862.9	4572.7	5116.9
22.5°	3013.4	2994.0	2828.4	2832.7	2918.7	2970.3	3174.7	3452.1	3916.7	4686.7	5316.9
25°	3215.5	3194.0	2998.3	2989.7	3080.0	3125.2	3340.3	3589.8	3992.0	4828.7	5579.3
27.5°	3484.4	3439.2	3204.8	3191.9	3288.7	3346.7	3540.3	3774.8	4125.4	5024.4	5932.1
30°	3705.9	3656.5	3432.8	3398.4	3501.6	3546.8	3746.8	4024.3	4387.8	5366.4	6420.3
32.5°	3996.3	3923.2	3660.8	3570.4	3680.1	3738.2	4045.8	4488.8	4777.1	5727.7	7001.1
35°	4650.2	4605.0	4284.5	3968.3	3961.9	4035.0	4486.7	4957.7	5177.1	6291.3	7792.6
37.5°	5585.8	5553.5	5213.7	4790.0	4667.4	4633.0	5022.3	5473.9	5815.9	7065.6	8713.1
40°	6672.0	6596.7	6284.8	5925.6	5766.5	5665.4	5654.6	6241.8	6650.5	8117.3	9672.4
42.5°	7450.6	7312.9	6934.4	6908.6	6874.2	6768.8	6463.3	7364.5	7728.0	9248.7	10698.4
45°	8267.9	8059.3	7495.8	7399.0	7386.1	7379.6	7685.0	8693.8	8902.4	10474.7	11752.3
47.5°	8902.4	8736.8	8274.4	8231.3	8285.1	8431.4	9300.3	10104.7	10061.7	11567.3	12636.3
50°	9747.7	9623.0	9108.9	9190.6	9468.1	9706.8	11122.1	11642.6	11014.6	12427.7	13279.4
52.5°	10745.7	10515.6	10038.1	10259.6	10685.5	11083.4	13055.7	12989.0	11683.5	13075.1	13759.1
55°	11610.3	11446.9	11283.4	11513.6	12150.2	12647.1	14802.2	13997.8	12169.6	13595.6	13969.8
57.5°	13072.9	13034.2	12866.5	13100.9	13873.1	14389.3	16365.9	14780.7	12481.4	13866.6	13722.5
60°	15236.7	15174.3	14862.4	15161.4	16168.0	16978.9	17807.0	15484.0	12552.4	13761.2	13010.6
62.5°	17839.2	17626.3	17359.6	17800.5	19181.4	19538.4	19164.2	15901.3	12287.9	12922.4	11294.2
65°	20269.7	20050.3	20056.8	20986.0	22489.4	22732.4	20747.2	15838.9	11513.6	10821.0	8330.3
67.5°	22130.2	22093.6	22356.0	24169.2	26135.1	25967.3	22162.5	14905.5	9218.6	7014.0	4426.5
70°	22224.8	22295.8	23048.6	26109.3	28105.3	27838.6	22042.0	12115.8	5747.1	3226.3	1744.3
71°	21080.6	21558.1	22599.1	26049.1	28221.4	27875.2	21026.8	10147.8	4215.7	2249.8	1258.3
72.5°	17964.0	18215.6	20465.4	24515.5	27303.0	26563.1	18452.2	7112.9	2699.3	1376.6	722.7
75°	9894.0	10513.4	13705.3	19233.0	21837.7	21188.1	12025.5	3379.0	1346.4	752.8	299.0
77.5°	4710.4	4589.9	6687.0	11438.3	14806.5	14772.1	6059.0	1501.3	785.1	509.8	150.6
80°	1346.4	1514.2	2559.5	5437.4	8220.6	8310.9	2327.2	724.8	544.2	397.9	77.4
82.5°	406.5	415.1	939.9	2404.7	4088.8	3854.3	873.2	369.9	391.5	316.2	45.2
85°	71.0	88.2	277.5	847.4	1559.4	1183.0	219.4	176.4	258.1	208.6	25.8
87.5°	4.3	6.5	92.5	96.8	137.7	79.6	38.7	25.8	55.9	55.9	15.1
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: P456421

CATALOG NUMBER: GALN-SA7C-830-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4506.1	4506.1	4506.1	4506.1	4506.1	4506.1	4506.1	4506.1	4506.1	4506.1	4506.1
2.5°	4521.1	4534.0	4525.4	4506.1	4473.8	4435.1	4383.5	4340.4	4303.9	4284.5	4308.2
5°	4549.1	4566.3	4523.3	4426.5	4280.2	4121.0	3940.4	3800.6	3690.9	3656.5	3643.6
7.5°	4592.1	4602.8	4486.7	4271.6	3961.9	3585.5	3256.4	2978.9	2763.9	2699.3	2604.7
10°	4648.0	4641.6	4422.2	4022.1	3477.9	2912.3	2402.5	2024.0	1737.9	1634.7	1626.1
12.5°	4734.0	4699.6	4340.4	3682.3	2901.5	2161.6	1531.4	1198.0	1017.4	957.1	944.2
15°	4841.6	4759.9	4211.4	3284.4	2221.8	1395.9	944.2	843.1	819.5	815.2	810.9
17.5°	4968.5	4839.4	4041.5	2796.1	1561.5	905.5	789.4	787.2	789.4	785.1	782.9
20°	5140.6	4923.3	3839.3	2217.5	1032.4	763.6	752.8	752.8	755.0	752.8	752.8
22.5°	5323.4	5022.3	3589.8	1692.7	778.6	724.8	722.7	727.0	731.3	729.1	729.1
25°	5549.2	5151.3	3260.7	1159.3	696.9	692.6	694.7	703.3	711.9	714.1	711.9
27.5°	5876.2	5310.5	2908.0	798.0	638.8	643.1	664.6	686.1	699.0	701.2	701.2
30°	6243.9	5486.8	2447.7	647.4	591.5	591.5	617.3	658.2	686.1	690.4	692.6
32.5°	6717.1	5691.2	1937.9	582.9	546.3	542.0	565.7	615.1	666.8	681.8	681.8
35°	7302.2	5932.1	1441.1	542.0	514.1	503.3	516.2	557.1	623.7	666.8	671.1
37.5°	7988.3	6160.1	1053.9	505.5	483.9	468.9	477.5	509.8	563.5	628.1	645.3
40°	8622.8	6362.2	787.2	475.3	453.8	443.1	449.5	464.6	509.8	570.0	580.7
42.5°	9315.4	6519.3	625.9	443.1	423.7	419.4	419.4	425.9	456.0	490.4	492.5
45°	10005.8	6575.2	524.8	404.4	391.5	395.8	393.6	389.3	402.2	397.9	397.9
47.5°	10498.4	6508.5	434.5	367.8	367.8	374.2	363.5	348.4	342.0	316.2	318.3
50°	10836.0	6265.5	357.0	324.8	342.0	350.6	329.1	305.4	281.8	253.8	247.3
52.5°	10975.8	5833.1	292.5	268.9	303.3	314.0	288.2	260.3	223.7	200.0	193.6
55°	10885.5	5299.7	243.0	219.4	256.0	268.9	243.0	210.8	169.9	144.1	139.8
57.5°	10487.6	4663.1	206.5	174.2	204.3	212.9	195.7	161.3	120.4	94.6	94.6
60°	9799.3	4004.9	167.8	137.7	152.7	165.6	148.4	116.1	81.7	58.1	53.8
62.5°	8403.4	3252.1	135.5	107.5	107.5	118.3	103.2	83.9	51.6	30.1	28.0
65°	6067.6	2230.4	107.5	79.6	77.4	77.4	64.5	55.9	30.1	12.9	8.6
67.5°	3297.3	1258.3	86.0	60.2	53.8	51.6	40.9	32.3	12.9	2.2	0.0
70°	1297.0	483.9	66.7	40.9	34.4	32.3	21.5	15.1	8.6	0.0	0.0
71°	879.7	333.4	58.1	34.4	28.0	23.7	17.2	12.9	6.5	0.0	0.0
72.5°	503.3	206.5	45.2	25.8	21.5	17.2	12.9	8.6	6.5	0.0	0.0
75°	219.4	105.4	28.0	19.4	15.1	10.8	8.6	6.5	2.2	0.0	0.0
77.5°	111.8	58.1	19.4	15.1	8.6	6.5	4.3	2.2	0.0	0.0	0.0
80°	62.4	30.1	12.9	8.6	6.5	4.3	2.2	2.2	0.0	0.0	0.0
82.5°	34.4	17.2	6.5	4.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.5	10.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.8	4.3	0.0	0.0	0.0	0.0	2.2	2.2	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)