

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: P455489

Luminaire Tested: **GALN-SA6C-830-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455489  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-830-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24322 lumens  
Efficiency: N/A  
Efficacy: 75.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

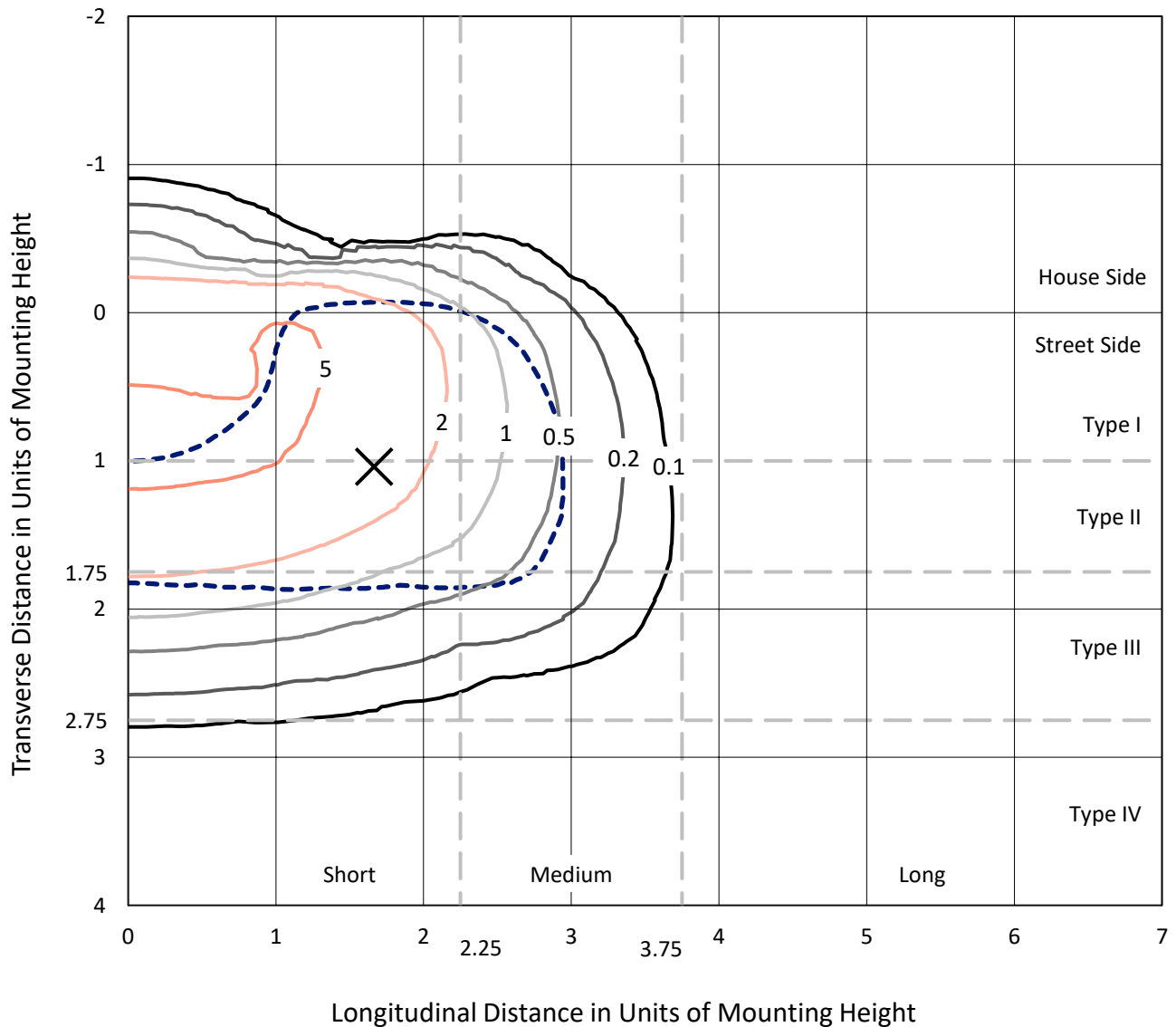
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P455489  
 CATALOG NUMBER: GALN-SA6C-830-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

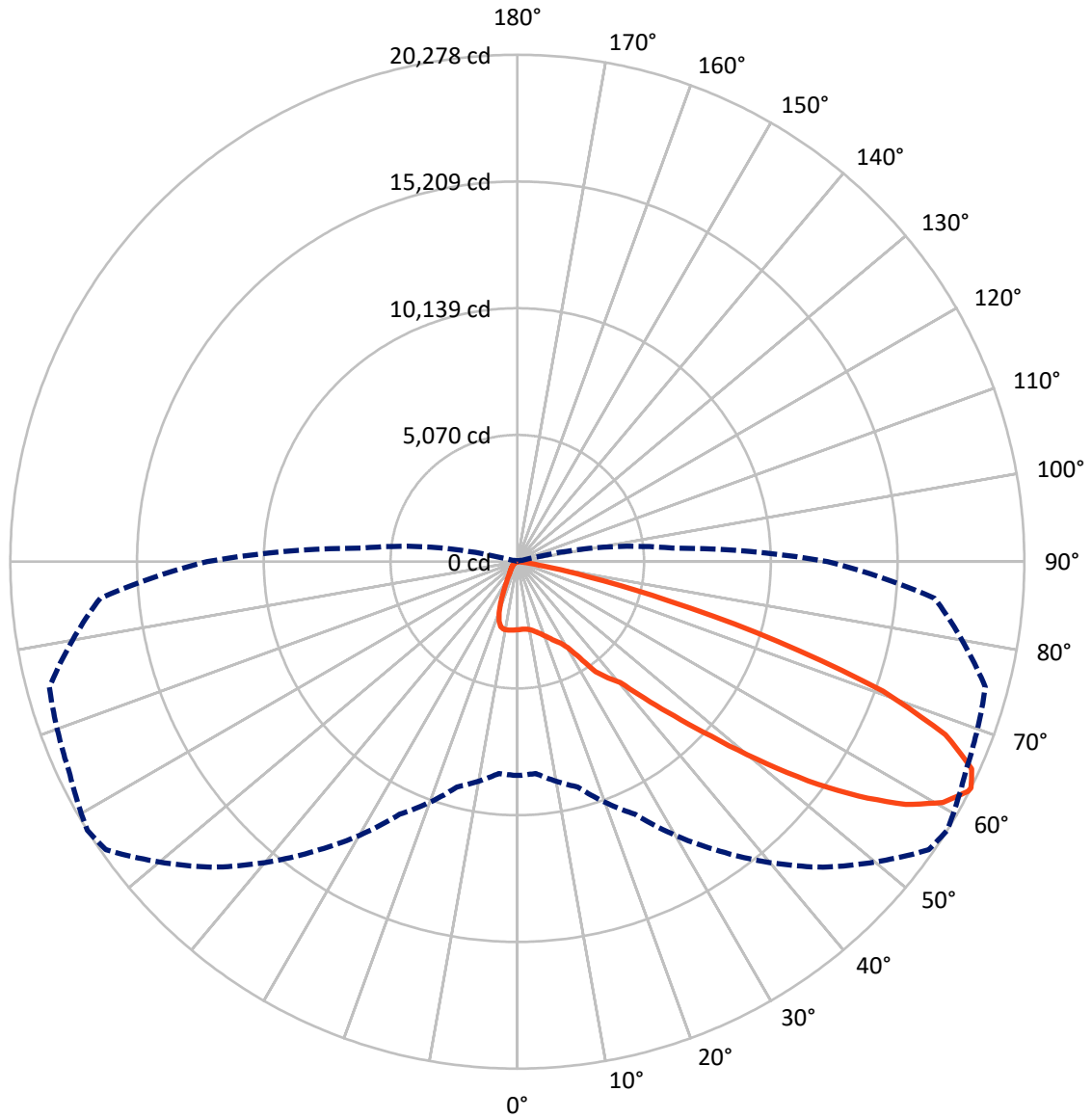
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type III - Short - N/A

REPORT NUMBER: P455489  
CATALOG NUMBER: GALN-SA6C-830-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P455489

CATALOG NUMBER: GALN-SA6C-830-U-T3-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2518.4	0.0	2518.4
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	21803.6	0.0	21803.6
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	24322.0	0.0	24322.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.9	1.0
10°-20°	694.3	2.9
20°-30°	1204.9	5.0
30°-40°	2214.2	9.1
40°-50°	4168.2	17.1
50°-60°	7129.4	29.3
60°-70°	6826.4	28.1
70°-80°	1740.7	7.2
80°-90°	89.0	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°	24322.0	100.0
0°-180°	24322.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P455489

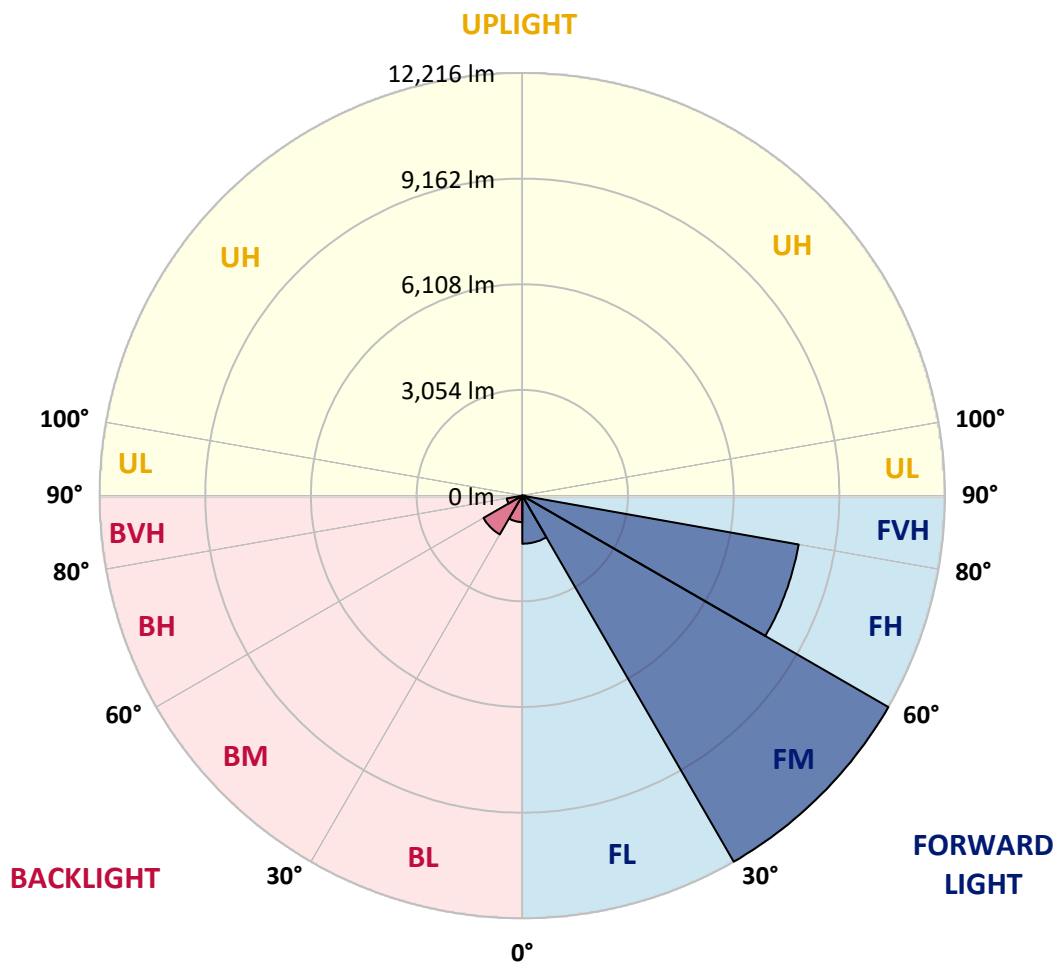
CATALOG NUMBER: GALN-SA6C-830-U-T3-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1390.3	5.7			
FM	(30°-60°)	12216.5	50.2			
FH	(60°-80°)	8111.3	33.3			G4/12000
FVH	(80°-90°)	85.6	0.4			G1/100
BL	(0°-30°)	763.8	3.1	B2/1000		
BM	(30°-60°)	1295.3	5.3	B2/2500		
BH	(60°-80°)	455.9	1.9	B1/500		G1/500
BVH	(80°-90°)	3.4	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: P455489  
 CATALOG NUMBER: GALN-SA6C-830-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2722.9	2722.9	2722.9	2722.9	2722.9	2722.9	2722.9	2722.9	2722.9	2722.9	2722.9
2.5°	2655.2	2664.3	2673.5	2677.2	2690.0	2702.8	2712.0	2710.1	2724.8	2732.1	2732.1
5°	2549.0	2549.0	2572.8	2594.8	2631.4	2668.0	2702.8	2710.1	2737.6	2763.2	2772.4
7.5°	2459.3	2464.7	2483.1	2523.3	2572.8	2636.9	2706.5	2722.9	2770.6	2827.3	2851.1
10°	2417.1	2420.8	2444.6	2486.7	2549.0	2636.9	2733.9	2765.1	2838.3	2928.0	2961.0
12.5°	2408.0	2413.5	2437.3	2484.9	2556.3	2662.5	2794.4	2827.3	2933.5	3048.9	3098.3
15°	2424.5	2428.1	2451.9	2503.2	2581.9	2708.3	2874.9	2920.7	3047.1	3180.7	3244.8
17.5°	2483.1	2479.4	2495.9	2538.0	2625.9	2765.1	2972.0	3026.9	3175.2	3358.4	3400.5
20°	2732.1	2708.3	2693.6	2657.0	2691.8	2845.6	3089.2	3169.7	3352.9	3539.6	3568.9
22.5°	3268.6	3215.5	3111.1	2968.3	2858.4	2955.5	3230.2	3323.6	3559.8	3742.9	3742.9
25°	3951.7	3883.9	3779.5	3468.2	3199.0	3136.8	3389.5	3506.7	3785.0	3970.0	3909.5
27.5°	4806.8	4753.7	4550.4	4187.9	3775.9	3453.6	3574.4	3682.5	3984.6	4208.0	4081.7
30°	5502.7	5477.0	5310.4	4986.3	4532.1	4061.5	3918.7	3990.1	4250.1	4508.3	4378.3
32.5°	6090.5	6090.5	5920.2	5618.0	5193.2	4775.7	4502.8	4554.1	4803.1	5101.6	4859.9
35°	6736.9	6714.9	6577.5	6290.1	5813.9	5445.9	5334.2	5403.8	5629.0	5850.6	5255.4
37.5°	7416.2	7408.9	7266.1	6987.7	6599.5	6136.2	5874.4	5892.7	6008.1	6143.6	5718.7
40°	8154.2	8165.2	7978.4	7806.3	7440.0	6965.8	6464.0	6348.6	6456.7	6839.4	6573.9
42.5°	9025.8	9000.2	8919.6	8685.2	8390.4	8106.6	7504.1	7462.0	7557.2	7967.4	7679.9
45°	10038.4	10075.1	9935.9	9805.9	9608.1	9371.9	8868.3	8795.1	8899.5	9536.7	9128.4
47.5°	11052.9	11018.1	11107.8	11084.0	11190.2	11014.5	10569.5	10419.3	10670.2	11274.5	10673.9
50°	11825.7	11864.1	12050.9	12323.7	12779.7	12878.6	12451.9	12400.6	12512.3	12900.6	12056.4
52.5°	12327.4	12455.6	12748.6	13449.9	14272.1	14911.2	14587.1	14559.6	14513.8	14618.2	13378.5
55°	12655.2	12785.2	13167.9	14200.7	15616.2	16654.4	16670.9	16553.7	16251.6	16176.5	14614.5
57.5°	12453.8	12479.4	13025.1	14405.8	16361.5	17897.8	18436.2	18319.0	17760.5	17476.6	15705.9
60°	11193.9	11247.0	12006.9	13629.4	16037.3	18304.3	19606.3	19553.2	18941.6	18621.1	16555.6
62.5°	8961.7	9115.5	9897.4	11706.6	14530.3	17619.5	20080.6	20230.7	19754.6	19313.3	16822.9
63°	8551.5	8502.1	9328.0	11146.3	14131.1	17280.7	20087.9	20278.3	19791.2	19379.2	16749.7
65°	6330.3	6478.7	7015.2	8789.6	11759.7	15704.1	19635.6	19972.5	19655.7	19088.1	15938.5
67.5°	3554.3	3547.0	4140.3	5751.7	8231.1	12318.2	17755.0	18467.3	18401.4	17128.7	13211.9
70°	1739.6	1767.1	2010.6	2981.1	4773.8	8498.4	14753.7	15522.8	15546.6	13453.6	9135.7
72.5°	787.4	800.2	974.2	1452.1	2453.8	4524.8	10166.6	10900.9	10765.4	8573.5	5044.9
75°	415.7	443.1	536.5	730.6	1182.9	1866.0	5530.1	6240.6	5956.8	3916.9	1856.8
77.5°	307.6	316.8	364.4	465.1	633.6	727.0	2386.0	2838.3	2658.9	1417.3	615.3
80°	225.2	232.6	271.0	329.6	399.2	369.9	899.1	1030.9	924.7	481.6	188.6
82.5°	137.3	139.2	197.8	245.4	250.9	206.9	296.6	318.6	333.3	271.0	102.5
85°	49.4	62.3	133.7	177.6	148.3	104.4	124.5	137.3	150.2	172.1	60.4
87.5°	5.5	7.3	64.1	86.1	42.1	38.5	45.8	51.3	54.9	64.1	29.3
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: P455489  
 CATALOG NUMBER: GALN-SA6C-830-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2722.9	2722.9	2722.9	2722.9	2722.9	2722.9	2722.9	2722.9	2722.9	2722.9	2722.9
2.5°	2739.4	2746.7	2741.3	2732.1	2730.3	2724.8	2713.8	2713.8	2713.8	2717.4	2713.8
5°	2779.7	2785.2	2772.4	2754.1	2733.9	2708.3	2680.8	2664.3	2662.5	2658.9	2649.7
7.5°	2856.6	2863.9	2834.6	2790.7	2735.8	2673.5	2614.9	2560.0	2534.3	2514.2	2514.2
10°	2968.3	2975.6	2917.0	2838.3	2728.4	2602.1	2462.9	2336.6	2237.7	2191.9	2180.9
12.5°	3102.0	3105.7	3008.6	2871.3	2690.0	2446.4	2149.8	1873.3	1681.0	1593.1	1584.0
15°	3248.5	3222.8	3094.7	2884.1	2580.1	2126.0	1613.3	1274.5	1074.9	1016.3	1038.3
17.5°	3396.8	3349.2	3160.6	2863.9	2332.9	1613.3	1084.0	869.8	807.5	791.1	791.1
20°	3536.0	3470.1	3208.2	2776.0	1904.4	1111.5	803.9	752.6	741.6	730.6	732.5
22.5°	3675.1	3574.4	3250.3	2580.1	1419.2	794.7	719.6	703.2	688.5	673.9	672.0
25°	3810.7	3671.5	3266.8	2217.5	966.9	683.0	657.4	635.4	606.1	589.6	586.0
27.5°	3951.7	3788.7	3255.8	1759.7	705.0	611.6	586.0	554.8	520.1	490.8	490.8
30°	4222.7	4012.1	3217.4	1265.3	593.3	538.4	505.4	456.0	417.5	388.2	386.4
32.5°	4592.6	4303.2	3085.5	889.9	527.4	474.3	424.8	369.9	329.6	307.6	307.6
35°	4922.2	4596.2	2838.3	655.6	474.3	412.0	351.6	298.5	267.4	252.7	247.2
37.5°	5423.9	5024.7	2497.7	532.9	423.0	357.1	294.8	245.4	219.7	208.8	208.8
40°	6176.5	5548.4	2080.2	466.9	373.6	304.0	245.4	206.9	186.8	174.0	174.0
42.5°	7110.4	6189.3	1657.2	419.3	327.8	261.9	205.1	175.8	157.5	148.3	146.5
45°	8286.0	6865.0	1276.3	375.4	291.2	223.4	174.0	148.3	130.0	124.5	126.4
47.5°	9512.9	7460.2	988.8	336.9	252.7	188.6	148.3	128.2	115.4	108.0	108.0
50°	10560.3	7870.3	750.8	293.0	223.4	159.3	130.0	115.4	104.4	100.7	98.9
52.5°	11435.6	7989.4	575.0	254.5	195.9	137.3	115.4	104.4	95.2	89.7	89.7
55°	12180.9	7885.0	450.5	214.2	164.8	119.0	102.5	93.4	82.4	76.9	75.1
57.5°	12616.7	7549.9	344.3	177.6	133.7	98.9	89.7	78.7	65.9	56.8	56.8
60°	12836.5	7062.8	263.7	146.5	102.5	78.7	73.2	58.6	45.8	38.5	36.6
62.5°	12572.8	6416.4	199.6	115.4	76.9	58.6	49.4	42.1	29.3	22.0	22.0
63°	12409.8	6229.6	192.3	109.9	71.4	54.9	45.8	38.5	25.6	20.1	18.3
65°	11312.9	5414.8	157.5	87.9	56.8	38.5	31.1	27.5	18.3	9.2	7.3
67.5°	8983.7	4142.1	124.5	65.9	40.3	27.5	18.3	16.5	5.5	0.0	0.0
70°	6074.0	2675.3	97.1	47.6	27.5	16.5	9.2	7.3	1.8	0.0	0.0
72.5°	3167.9	1371.5	75.1	34.8	16.5	11.0	5.5	1.8	0.0	0.0	0.0
75°	1120.7	466.9	54.9	22.0	11.0	5.5	1.8	0.0	0.0	0.0	0.0
77.5°	338.8	174.0	34.8	16.5	7.3	3.7	0.0	0.0	0.0	0.0	0.0
80°	119.0	64.1	20.1	11.0	5.5	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	58.6	31.1	12.8	9.2	5.5	1.8	0.0	0.0	0.0	0.0	0.0
85°	33.0	20.1	11.0	9.2	5.5	3.7	0.0	0.0	0.0	0.0	0.0
87.5°	23.8	14.6	11.0	9.2	7.3	3.7	1.8	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)