

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: P457809

Luminaire Tested: **GALN-SA9A-830-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457809
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-SA9A-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA 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: 24187 lumens
Efficiency: N/A
Efficacy: 88.3 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): 274
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

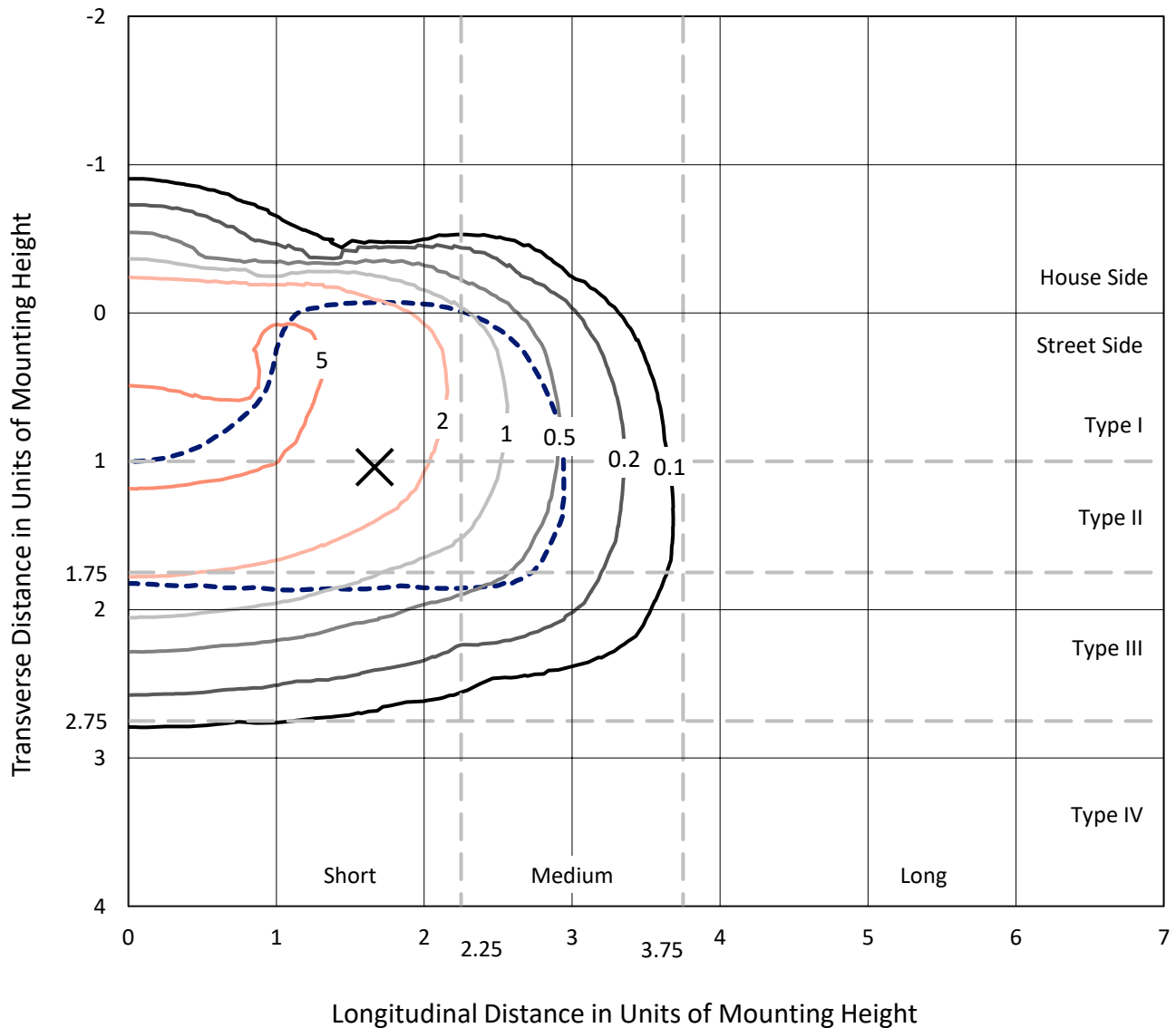


REPORT NUMBER: P457809

CATALOG NUMBER: GALN-SA9A-830-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

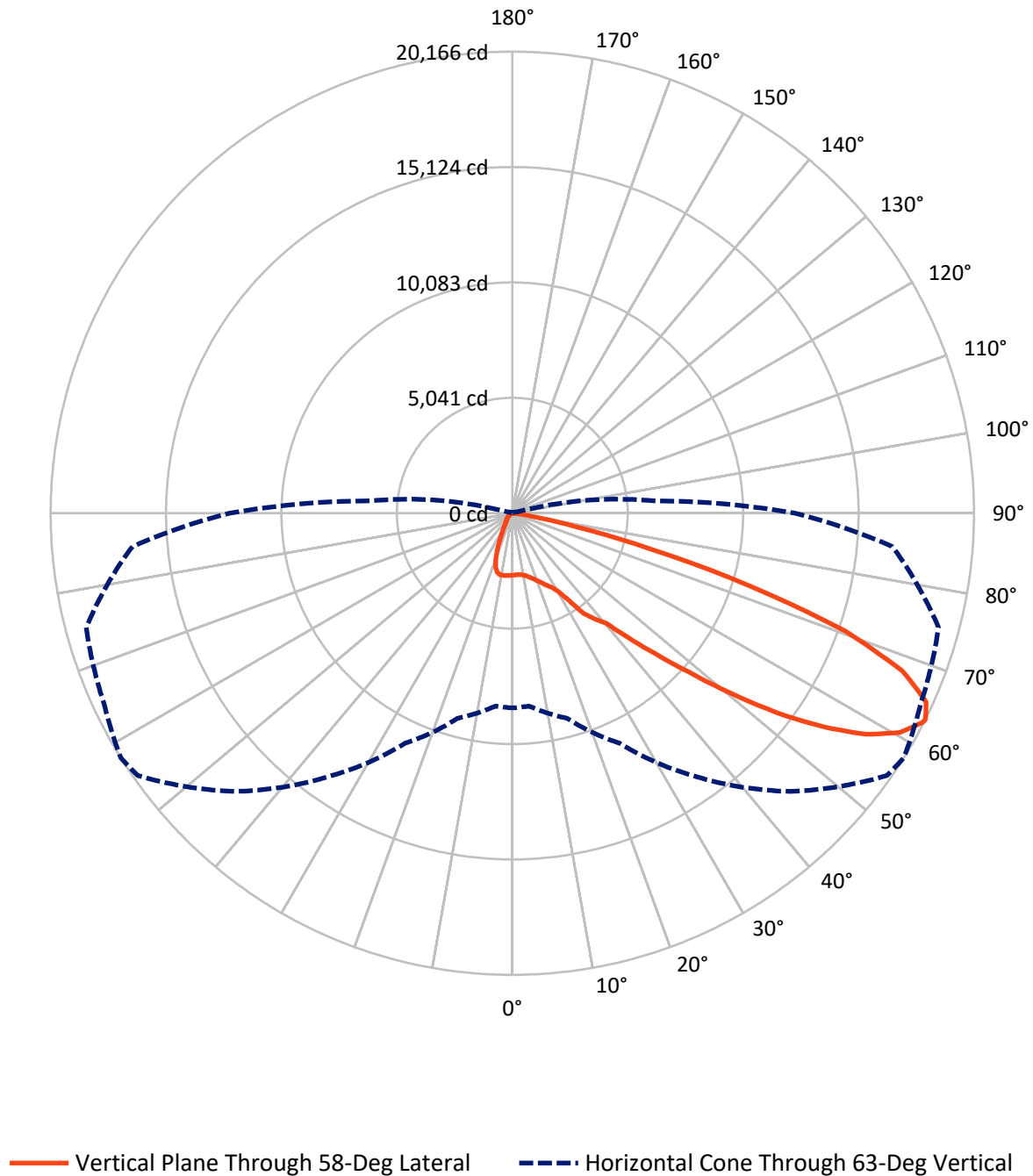
× Max cd
- - - 1/2 Max cd



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

REPORT NUMBER: P457809
CATALOG NUMBER: GALN-SA9A-830-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P457809

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2504.4	0.0	2504.4
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	21682.6	0.0	21682.6
	% Fixture	89.6	0.0	89.6
Total	Lumens	24187.0	0.0	24187.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.5	1.0
10°-20°	690.4	2.9
20°-30°	1198.2	5.0
30°-40°	2201.9	9.1
40°-50°	4145.1	17.1
50°-60°	7089.8	29.3
60°-70°	6788.5	28.1
70°-80°	1731.1	7.2
80°-90°	88.5	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°	24187.0	100.0
0°-180°	24187.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457809

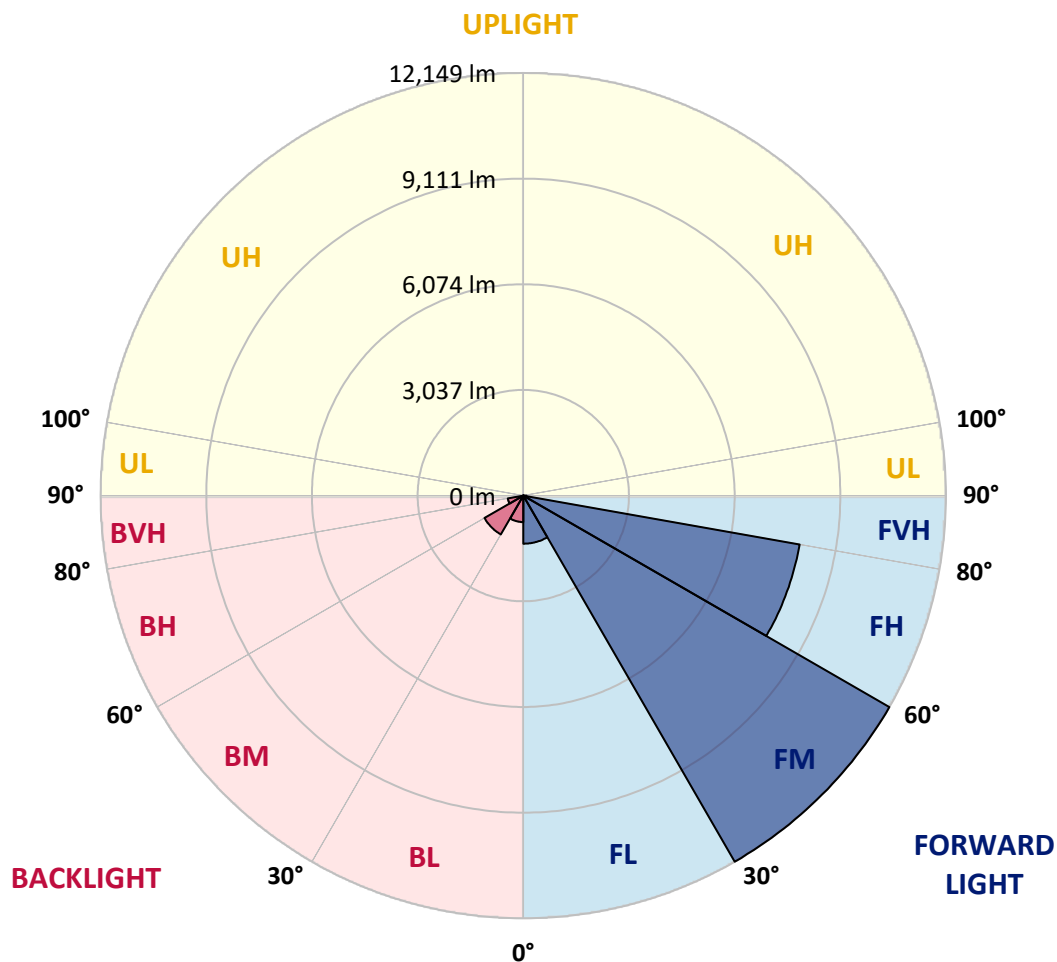
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1382.6	5.7			
FM	(30°-60°)	12148.6	50.2			
FH	(60°-80°)	8066.2	33.3			G4/12000
FVH	(80°-90°)	85.1	0.4			G1/100
BL	(0°-30°)	759.5	3.1	B2/1000		
BM	(30°-60°)	1288.1	5.3	B2/2500		
BH	(60°-80°)	453.3	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: P457809

CATALOG NUMBER: GALN-SA9A-830-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2707.8	2707.8	2707.8	2707.8	2707.8	2707.8	2707.8	2707.8	2707.8	2707.8	2707.8
2.5°	2640.5	2649.6	2658.7	2662.3	2675.1	2687.8	2696.9	2695.1	2709.6	2716.9	2716.9
5°	2534.8	2534.8	2558.5	2580.4	2616.8	2653.2	2687.8	2695.1	2722.4	2747.9	2757.0
7.5°	2445.6	2451.1	2469.3	2509.3	2558.5	2622.2	2691.4	2707.8	2755.2	2811.6	2835.3
10°	2403.7	2407.4	2431.0	2472.9	2534.8	2622.2	2718.8	2749.7	2822.6	2911.8	2944.6
12.5°	2394.6	2400.1	2423.8	2471.1	2542.1	2647.7	2778.8	2811.6	2917.2	3032.0	3081.1
15°	2411.0	2414.6	2438.3	2489.3	2567.6	2693.3	2859.0	2904.5	3030.1	3163.1	3226.8
17.5°	2469.3	2465.6	2482.0	2523.9	2611.3	2749.7	2955.5	3010.1	3157.6	3339.7	3381.6
20°	2716.9	2693.3	2678.7	2642.3	2676.9	2829.8	3072.0	3152.2	3334.3	3520.0	3549.1
22.5°	3250.5	3197.7	3093.9	2951.8	2842.6	2939.1	3212.2	3305.1	3540.0	3722.1	3722.1
25°	3929.7	3862.3	3758.5	3449.0	3181.3	3119.4	3370.7	3487.2	3764.0	3947.9	3887.8
27.5°	4780.1	4727.3	4525.2	4164.6	3754.9	3434.4	3554.6	3662.0	3962.5	4184.7	4059.0
30°	5472.1	5446.6	5280.9	4958.6	4507.0	4039.0	3896.9	3968.0	4226.5	4483.3	4354.0
32.5°	6056.6	6056.6	5887.3	5586.8	5164.4	4749.2	4477.8	4528.8	4776.5	5073.3	4832.9
35°	6699.5	6677.6	6541.0	6255.1	5781.7	5415.7	5304.6	5373.8	5597.8	5818.1	5226.3
37.5°	7375.1	7367.8	7225.7	6948.9	6562.9	6102.2	5841.8	5860.0	5974.7	6109.5	5687.0
40°	8108.9	8119.8	7934.1	7762.9	7398.7	6927.1	6428.1	6313.4	6420.8	6801.4	6537.4
42.5°	8975.7	8950.2	8870.1	8637.0	8343.8	8061.6	7462.5	7420.6	7515.3	7923.2	7637.3
45°	9982.7	10019.1	9880.8	9751.5	9554.8	9319.9	8819.1	8746.3	8850.1	9483.8	9077.7
47.5°	10991.6	10957.0	11046.2	11022.5	11128.1	10953.3	10510.8	10361.5	10611.0	11211.9	10614.6
50°	11760.0	11798.3	11984.0	12255.3	12708.8	12807.1	12382.8	12331.8	12442.9	12829.0	11989.5
52.5°	12259.0	12386.4	12677.8	13375.3	14192.9	14828.4	14506.1	14478.8	14433.3	14537.0	13304.2
55°	12584.9	12714.2	13094.8	14121.9	15529.5	16562.0	16578.4	16461.8	16161.4	16086.7	14533.4
57.5°	12384.6	12410.1	12952.8	14325.8	16270.6	17798.5	18333.8	18217.3	17661.9	17379.6	15618.7
60°	11131.8	11184.6	11940.3	13553.7	15948.3	18202.7	19497.5	19444.6	18836.4	18517.8	16463.7
62.5°	8912.0	9064.9	9842.5	11641.7	14449.6	17521.7	19969.1	20118.4	19645.0	19206.1	16729.5
63°	8504.1	8454.9	9276.2	11084.4	14052.7	17184.8	19976.4	20165.8	19681.4	19271.7	16656.7
65°	6295.2	6442.7	6976.3	8740.8	11694.5	15616.9	19526.6	19861.7	19546.6	18982.1	15850.0
67.5°	3534.6	3527.3	4117.3	5719.8	8185.4	12249.9	17656.4	18364.8	18299.2	17033.6	13138.5
70°	1730.0	1757.3	1999.5	2964.6	4747.3	8451.3	14671.8	15436.6	15460.3	13378.9	9085.0
72.5°	783.0	795.8	968.8	1444.1	2440.1	4499.7	10110.2	10840.4	10705.7	8525.9	5016.9
75°	413.4	440.7	533.6	726.6	1176.4	1855.6	5499.4	6206.0	5923.7	3895.1	1846.5
77.5°	305.9	315.0	362.4	462.5	630.1	722.9	2372.8	2822.6	2644.1	1409.5	611.9
80°	224.0	231.3	269.5	327.8	397.0	367.8	894.1	1025.2	919.6	478.9	187.6
82.5°	136.6	138.4	196.7	244.0	249.5	205.8	295.0	316.9	331.4	269.5	102.0
85°	49.2	61.9	132.9	176.6	147.5	103.8	123.8	136.6	149.3	171.2	60.1
87.5°	5.5	7.3	63.7	85.6	41.9	38.2	45.5	51.0	54.6	63.7	29.1
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: P457809

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2707.8	2707.8	2707.8	2707.8	2707.8	2707.8	2707.8	2707.8	2707.8	2707.8	2707.8
2.5°	2724.2	2731.5	2726.0	2716.9	2715.1	2709.6	2698.7	2698.7	2698.7	2702.4	2698.7
5°	2764.3	2769.7	2757.0	2738.8	2718.8	2693.3	2665.9	2649.6	2647.7	2644.1	2635.0
7.5°	2840.8	2848.0	2818.9	2775.2	2720.6	2658.7	2600.4	2545.8	2520.3	2500.2	2500.2
10°	2951.8	2959.1	2900.9	2822.6	2713.3	2587.6	2449.2	2323.6	2225.3	2179.7	2168.8
12.5°	3084.8	3088.4	2991.9	2855.3	2675.1	2432.9	2137.9	1862.9	1671.7	1584.3	1575.2
15°	3230.5	3205.0	3077.5	2868.1	2565.8	2114.2	1604.3	1267.4	1068.9	1010.7	1032.5
17.5°	3378.0	3330.6	3143.0	2848.0	2320.0	1604.3	1078.0	865.0	803.1	786.7	786.7
20°	3516.4	3450.8	3190.4	2760.6	1893.8	1105.3	799.4	748.4	737.5	726.6	728.4
22.5°	3654.7	3554.6	3232.3	2565.8	1411.3	790.3	715.7	699.3	684.7	670.1	668.3
25°	3789.5	3651.1	3248.7	2205.2	961.5	679.2	653.7	631.9	602.8	586.4	582.7
27.5°	3929.7	3767.7	3237.7	1750.0	701.1	608.2	582.7	551.8	517.2	488.0	488.0
30°	4199.2	3989.8	3199.5	1258.3	590.0	535.4	502.6	453.4	415.2	386.1	384.2
32.5°	4567.1	4279.4	3068.4	885.0	524.4	471.6	422.5	367.8	327.8	305.9	305.9
35°	4894.9	4570.7	2822.6	651.9	471.6	409.7	349.6	296.8	265.9	251.3	245.8
37.5°	5393.8	4996.8	2483.8	529.9	420.7	355.1	293.2	244.0	218.5	207.6	207.6
40°	6142.2	5517.6	2068.7	464.4	371.5	302.3	244.0	205.8	185.7	173.0	173.0
42.5°	7070.9	6155.0	1648.0	417.0	326.0	260.4	204.0	174.8	156.6	147.5	145.7
45°	8240.0	6826.9	1269.2	373.3	289.5	222.2	173.0	147.5	129.3	123.8	125.6
47.5°	9460.1	7418.8	983.3	335.1	251.3	187.6	147.5	127.5	114.7	107.4	107.4
50°	10501.7	7826.7	746.6	291.4	222.2	158.4	129.3	114.7	103.8	100.2	98.3
52.5°	11372.2	7945.0	571.8	253.1	194.8	136.6	114.7	103.8	94.7	89.2	89.2
55°	12113.3	7841.2	448.0	213.1	163.9	118.4	102.0	92.9	81.9	76.5	74.7
57.5°	12546.7	7508.0	342.3	176.6	132.9	98.3	89.2	78.3	65.6	56.5	56.5
60°	12765.2	7023.6	262.2	145.7	102.0	78.3	72.8	58.3	45.5	38.2	36.4
62.5°	12503.0	6380.8	198.5	114.7	76.5	58.3	49.2	41.9	29.1	21.9	21.9
63°	12340.9	6195.0	191.2	109.3	71.0	54.6	45.5	38.2	25.5	20.0	18.2
65°	11250.1	5384.7	156.6	87.4	56.5	38.2	31.0	27.3	18.2	9.1	7.3
67.5°	8933.8	4119.1	123.8	65.6	40.1	27.3	18.2	16.4	5.5	0.0	0.0
70°	6040.3	2660.5	96.5	47.3	27.3	16.4	9.1	7.3	1.8	0.0	0.0
72.5°	3150.3	1363.9	74.7	34.6	16.4	10.9	5.5	1.8	0.0	0.0	0.0
75°	1114.5	464.4	54.6	21.9	10.9	5.5	1.8	0.0	0.0	0.0	0.0
77.5°	336.9	173.0	34.6	16.4	7.3	3.6	0.0	0.0	0.0	0.0	0.0
80°	118.4	63.7	20.0	10.9	5.5	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	58.3	31.0	12.7	9.1	5.5	1.8	0.0	0.0	0.0	0.0	0.0
85°	32.8	20.0	10.9	9.1	5.5	3.6	0.0	0.0	0.0	0.0	0.0
87.5°	23.7	14.6	10.9	9.1	7.3	3.6	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)