

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: P452460

Luminaire Tested: **GALN-SA3B-830-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452460
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11166 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 121
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

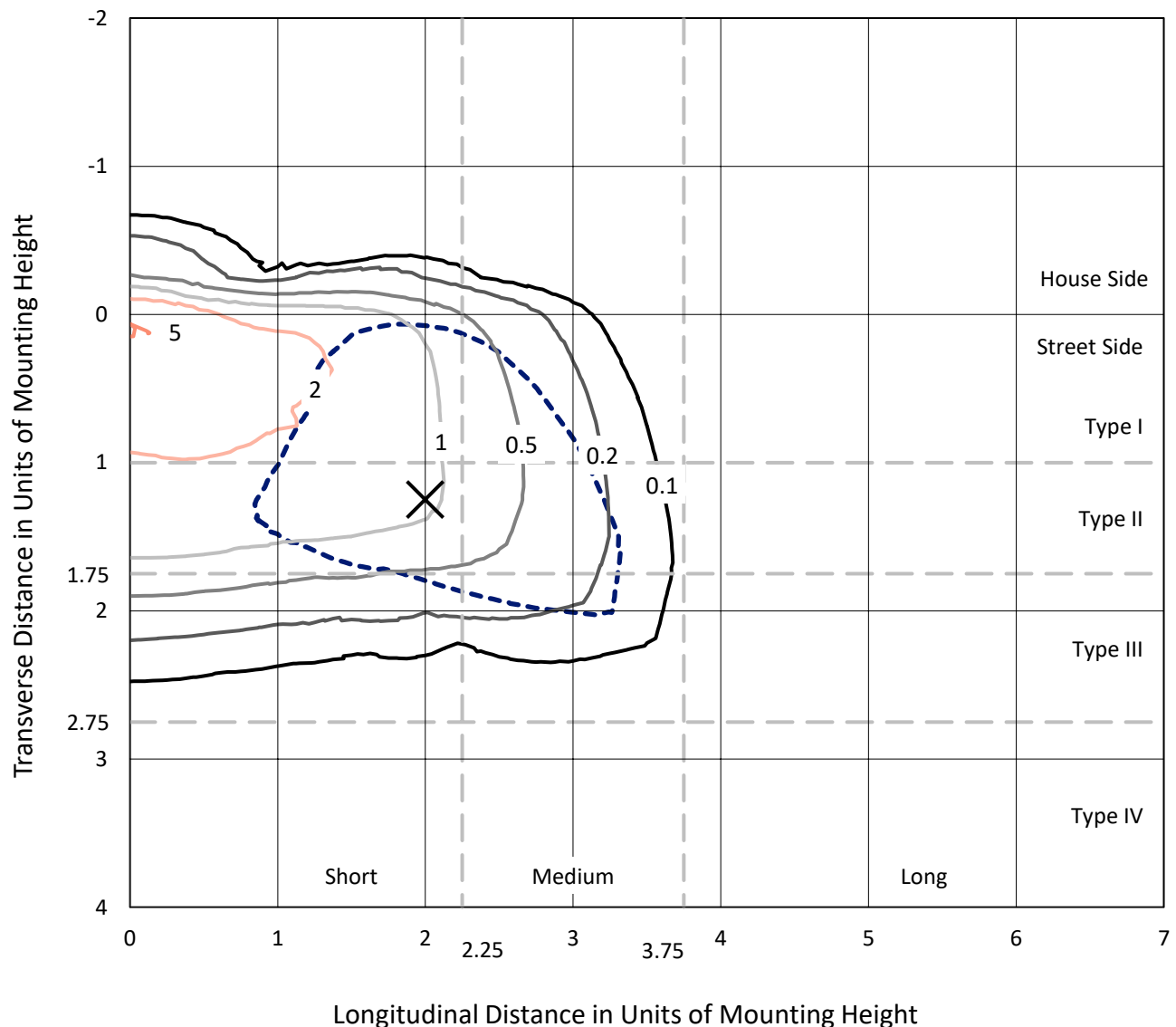


REPORT NUMBER: P452460

CATALOG NUMBER: GALN-SA3B-830-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

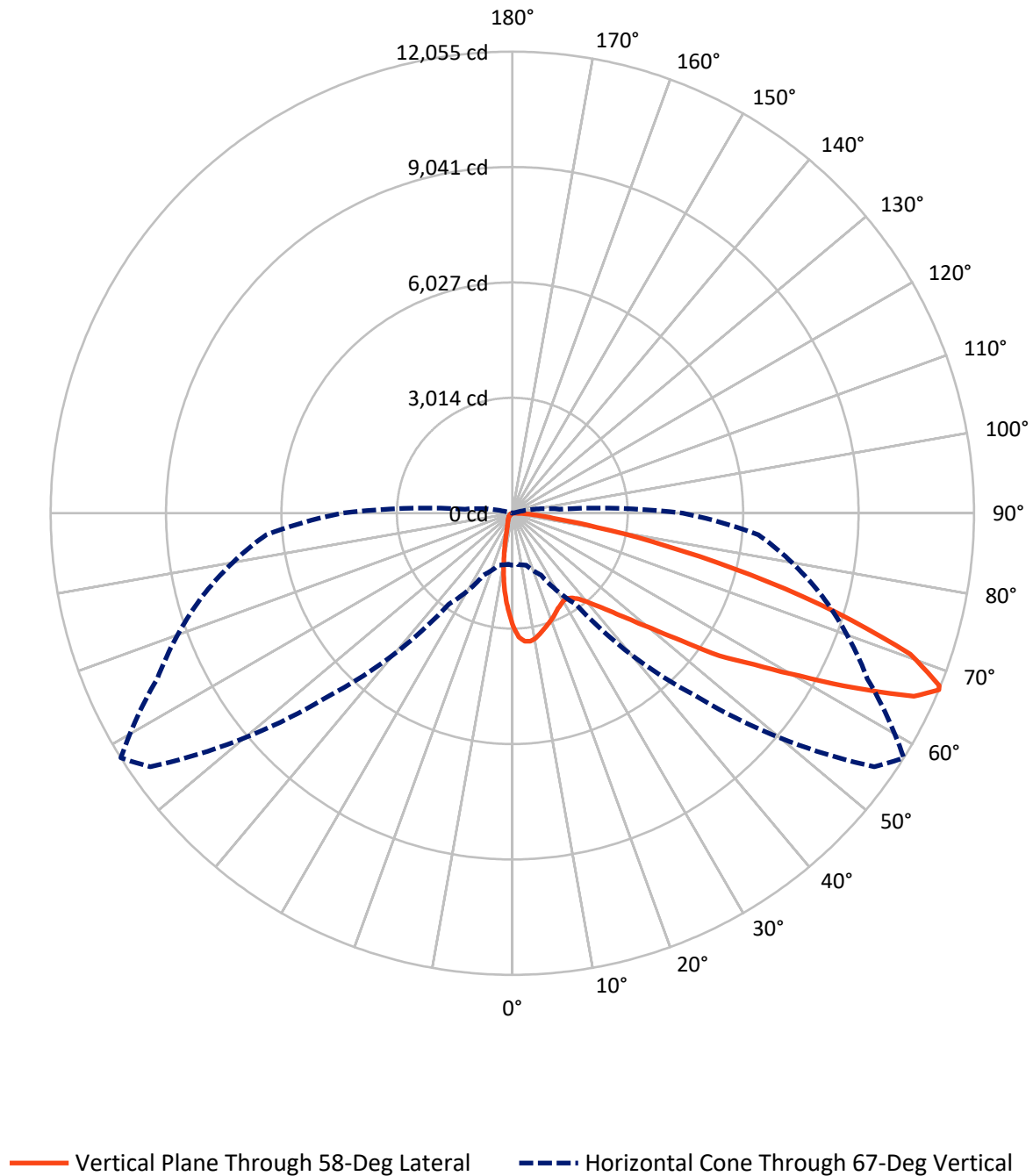


Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - N/A

REPORT NUMBER: P452460

CATALOG NUMBER: GALN-SA3B-830-U-SL3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P452460

CATALOG NUMBER: GALN-SA3B-830-U-SL3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	805.8	0.0	805.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	10360.2	0.0	10360.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	11166.0	0.0	11166.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.2	2.2
10°-20°	518.8	4.6
20°-30°	703.0	6.3
30°-40°	975.0	8.7
40°-50°	1555.0	13.9
50°-60°	2687.9	24.1
60°-70°	3070.4	27.5
70°-80°	1280.1	11.5
80°-90°	135.7	1.2
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°	11166.0	100.0
0°-180°	11166.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452460

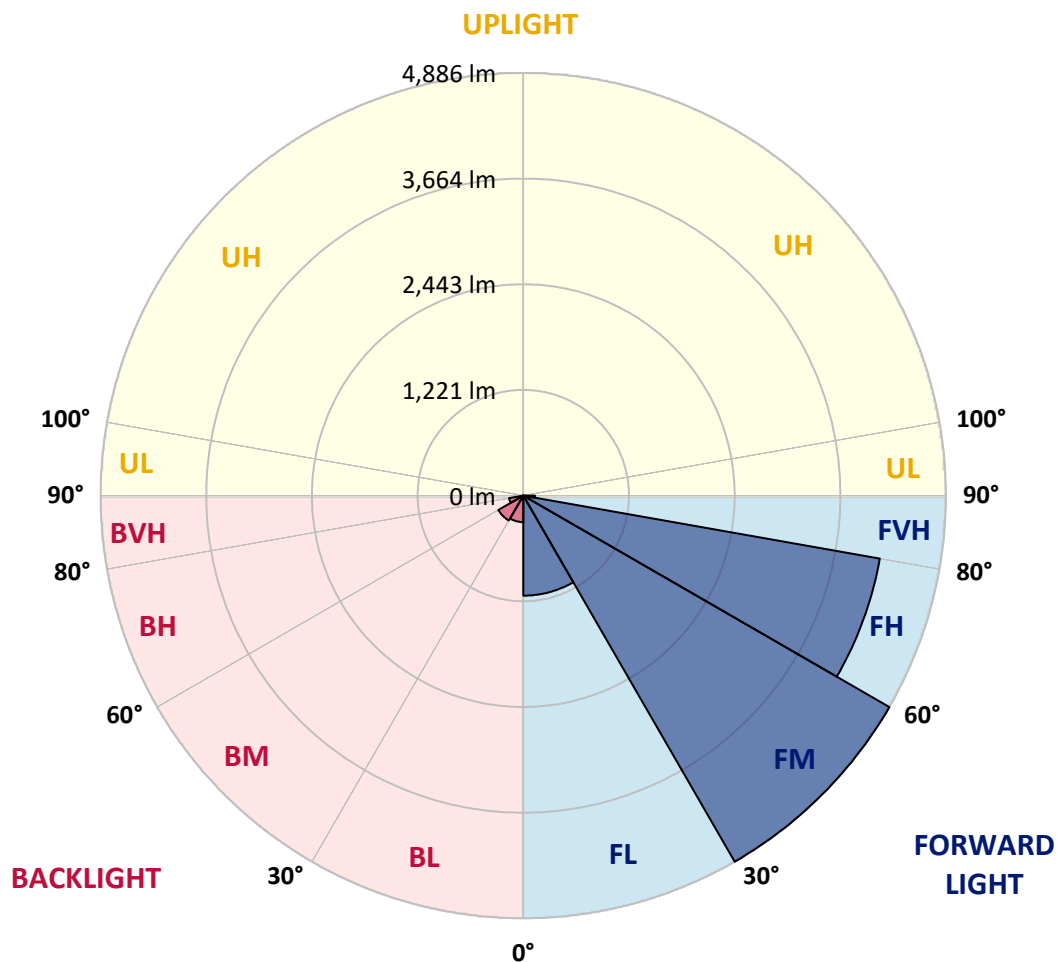
CATALOG NUMBER: GALN-SA3B-830-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1155.9	10.4			
FM	(30°-60°)	4885.6	43.8			
FH	(60°-80°)	4183.9	37.5			G2/5000
FVH	(80°-90°)	134.7	1.2			G2/225
BL	(0°-30°)	306.0	2.7	B1/500		
BM	(30°-60°)	332.3	3.0	B1/1000		
BH	(60°-80°)	166.6	1.5	B1/500		G1/500
BVH	(80°-90°)	1.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





REPORT NUMBER: P452460

CATALOG NUMBER: GALN-SA3B-830-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0
2.5°	3435.3	3440.5	3421.1	3405.5	3365.2	3321.9	3264.4	3233.8	3181.6	3091.3	2991.3
5°	3515.9	3522.6	3519.6	3515.9	3500.2	3458.4	3385.3	3358.5	3281.6	3134.6	2954.0
7.5°	3336.8	3361.4	3364.4	3393.5	3421.1	3424.9	3397.3	3377.1	3306.2	3133.9	2887.6
10°	3099.5	3116.0	3139.8	3173.4	3239.8	3295.0	3321.9	3318.9	3277.9	3110.7	2810.0
12.5°	2860.0	2869.0	2905.5	2963.0	3044.3	3138.3	3210.0	3224.1	3224.9	3083.1	2745.1
15°	2654.1	2650.3	2678.7	2745.1	2859.3	2977.2	3105.5	3127.9	3163.7	3056.3	2684.7
17.5°	2478.0	2497.4	2501.9	2575.0	2680.2	2833.2	2996.6	3036.1	3107.7	3033.1	2634.7
20°	2369.0	2379.5	2389.2	2430.2	2525.0	2686.2	2894.3	2948.8	3055.5	3012.2	2578.7
22.5°	2337.0	2343.7	2335.5	2348.2	2415.3	2558.6	2783.2	2855.5	3005.5	2992.8	2533.2
25°	2361.6	2368.3	2348.9	2334.0	2357.1	2454.9	2675.7	2763.8	2965.2	2989.1	2498.9
27.5°	2421.3	2434.0	2407.1	2380.2	2366.8	2398.9	2591.4	2693.6	2937.6	3007.0	2483.2
30°	2514.5	2522.0	2501.9	2469.0	2438.4	2406.4	2547.4	2645.1	2930.2	3048.8	2481.7
32.5°	2616.0	2631.7	2620.5	2598.9	2559.3	2483.2	2560.1	2646.6	2948.1	3109.2	2500.4
35°	2741.4	2759.3	2769.7	2765.3	2714.5	2619.8	2640.6	2713.8	2995.8	3220.4	2551.1
37.5°	2864.5	2880.2	2939.1	2959.3	2914.5	2824.9	2797.3	2845.8	3101.0	3365.9	2642.9
40°	3005.5	3026.4	3109.2	3186.1	3164.5	3070.4	3019.7	3060.0	3262.2	3585.3	2816.7
42.5°	3140.6	3177.9	3304.0	3439.8	3459.9	3354.7	3321.1	3334.6	3501.0	3900.9	3059.2
45°	3332.3	3367.4	3530.1	3714.4	3809.1	3727.1	3692.7	3690.5	3828.5	4344.9	3452.5
47.5°	3609.2	3640.5	3832.3	4014.3	4183.0	4194.1	4129.2	4151.6	4240.4	4864.2	3934.5
50°	3948.7	4022.5	4148.6	4338.2	4563.5	4745.6	4765.7	4735.9	4812.0	5465.6	4513.5
52.5°	4441.9	4470.2	4585.9	4741.8	5006.0	5314.9	5554.4	5513.4	5489.5	6038.6	5098.5
55°	4809.7	4847.8	5027.6	5241.8	5629.0	6036.4	6555.7	6569.9	6268.5	6589.3	5670.8
57.5°	4698.5	4756.7	5029.1	5459.6	6311.0	7055.7	7442.2	7451.9	6989.3	7124.3	6317.0
60°	4127.7	4155.3	4545.6	5120.1	6369.2	8160.0	8699.4	8621.1	7722.7	7722.7	6887.8
62.5°	2927.2	2970.5	3286.8	4132.2	5752.1	8543.5	10205.2	10043.3	8733.0	8295.0	7228.0
65°	1870.6	1828.8	2038.5	2608.6	4285.2	7977.2	11516.2	11525.9	9683.6	8524.1	7042.2
67°	1355.0	1338.6	1399.0	1783.3	2905.5	6705.7	11543.8	12054.9	10229.8	8379.3	6448.3
67.5°	1239.4	1252.1	1296.1	1608.7	2639.9	6102.1	11418.4	12023.6	10352.9	8292.0	6233.4
70°	939.4	917.8	965.5	1137.9	1582.6	3849.4	9822.4	11027.5	10200.0	7425.8	4980.6
72.5°	690.9	688.7	755.1	930.5	1218.5	2050.4	7373.5	8842.0	8333.1	5654.4	3136.1
75°	466.3	487.2	593.2	777.5	1104.3	1329.7	5026.9	6414.7	5785.0	3210.7	1281.9
77.5°	265.6	267.1	382.0	624.5	991.6	1070.0	2978.7	4086.7	3062.2	1067.8	380.5
80°	114.9	126.1	189.5	453.7	822.3	947.6	1708.0	2245.9	1238.6	226.1	123.1
82.5°	42.5	50.0	83.6	279.1	599.9	780.5	1031.9	1072.2	420.1	79.8	76.9
85°	0.0	1.5	30.6	130.6	312.6	348.5	689.4	635.7	185.8	38.1	50.0
87.5°	0.0	0.0	0.0	13.4	41.0	129.8	214.1	238.8	44.8	13.4	11.9
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: P452460

CATALOG NUMBER: GALN-SA3B-830-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0
2.5°	2937.6	2889.1	2767.5	2645.9	2555.6	2480.2	2366.8	2304.9	2272.0	2223.5	2226.5
5°	2863.7	2765.3	2551.1	2329.5	2150.4	1975.8	1766.9	1682.6	1611.7	1571.4	1544.5
7.5°	2754.1	2608.6	2291.4	1996.0	1720.6	1415.5	1186.4	1033.4	930.5	892.4	855.8
10°	2633.9	2440.7	2028.1	1618.4	1236.4	921.5	727.5	587.2	537.2	491.0	495.4
12.5°	2522.8	2287.7	1786.3	1277.4	866.3	585.7	456.6	399.2	382.8	377.6	377.6
15°	2431.7	2141.5	1526.6	960.3	593.9	420.8	365.6	349.9	344.0	342.5	342.5
17.5°	2334.7	2002.7	1292.3	709.6	432.0	352.2	333.5	323.1	320.8	319.4	319.4
20°	2248.2	1863.2	1070.0	528.3	349.2	317.1	305.2	298.5	296.2	294.7	295.5
22.5°	2166.1	1739.3	861.1	399.2	307.4	288.8	276.8	270.1	265.6	261.9	262.6
25°	2093.0	1619.9	692.4	326.8	276.8	260.4	248.5	238.8	229.1	224.6	223.8
27.5°	2041.5	1515.4	539.5	279.8	249.2	231.3	216.4	204.4	191.8	185.0	183.6
30°	1999.0	1409.5	426.8	247.0	221.6	204.4	185.8	168.6	155.2	148.5	145.5
32.5°	1971.3	1308.8	336.5	220.1	198.5	177.6	156.7	139.5	124.6	117.9	116.4
35°	1966.9	1224.4	275.3	197.7	177.6	155.2	133.6	114.9	102.2	95.5	94.0
37.5°	1999.0	1159.5	230.6	179.8	160.4	135.8	111.9	94.8	83.6	78.3	77.6
40°	2084.8	1118.5	200.0	164.9	144.8	117.9	95.5	80.6	69.4	64.2	64.2
42.5°	2248.2	1120.0	179.8	150.7	129.1	100.7	81.3	67.2	57.5	53.0	51.5
45°	2503.4	1170.7	162.7	136.5	114.2	87.3	69.4	55.2	45.5	41.8	41.8
47.5°	2845.1	1271.5	147.7	122.4	100.7	74.6	58.9	44.8	36.6	32.8	32.8
50°	3292.0	1433.4	135.1	110.4	89.5	64.2	47.8	36.6	28.4	25.4	24.6
52.5°	3759.1	1633.3	120.1	100.0	76.9	54.5	38.8	28.4	21.6	19.4	18.7
55°	4274.7	1828.8	106.0	89.5	62.7	45.5	30.6	22.4	15.7	13.4	13.4
57.5°	4794.8	2020.6	88.8	74.6	49.2	33.6	23.9	16.4	10.4	8.2	8.2
60°	5235.0	2082.5	75.4	60.4	37.3	23.9	17.2	10.4	6.0	3.7	3.7
62.5°	5295.5	1873.6	63.4	46.3	26.9	16.4	9.0	6.0	2.2	1.5	1.5
65°	4967.2	1522.2	53.0	35.1	17.9	8.2	3.7	2.2	0.7	0.0	0.0
67°	4450.8	1234.1	43.3	26.1	12.7	5.2	2.2	0.7	0.0	0.0	0.0
67.5°	4318.8	1176.7	41.8	24.6	11.2	4.5	1.5	0.7	0.0	0.0	0.0
70°	3389.0	881.2	29.8	14.9	6.7	3.0	0.0	0.0	0.0	0.0	0.0
72.5°	2106.4	498.4	21.6	9.0	4.5	1.5	0.0	0.0	0.0	0.0	0.0
75°	796.1	174.6	14.9	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	247.7	66.4	9.0	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	83.6	25.4	6.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	51.5	10.4	3.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	32.1	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.0	1.5	0.7	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)