

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: P452694

Luminaire Tested: **GALN-SA3C-830-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452694
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13718 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 160
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

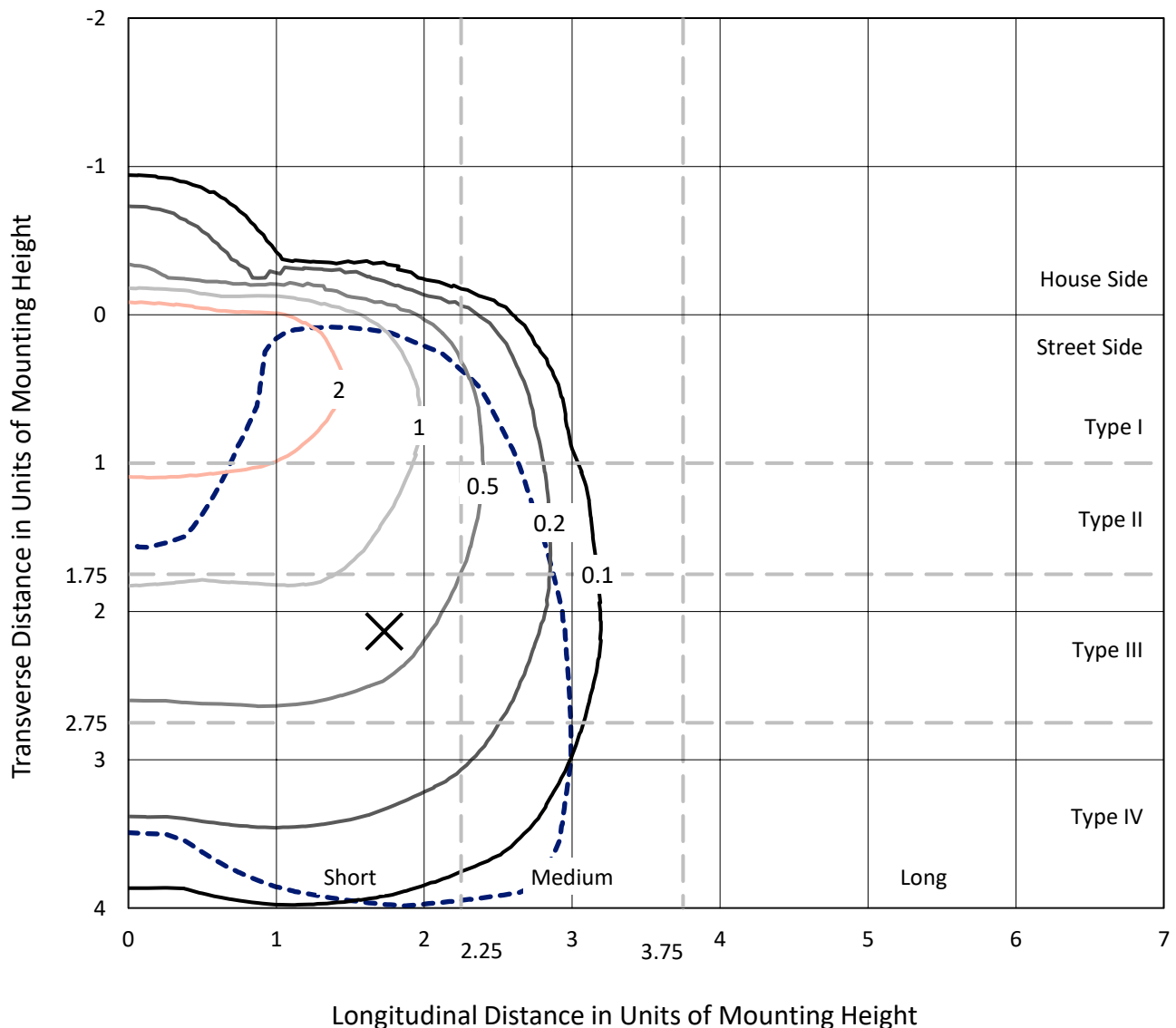


REPORT NUMBER: P452694

CATALOG NUMBER: GALN-SA3C-830-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

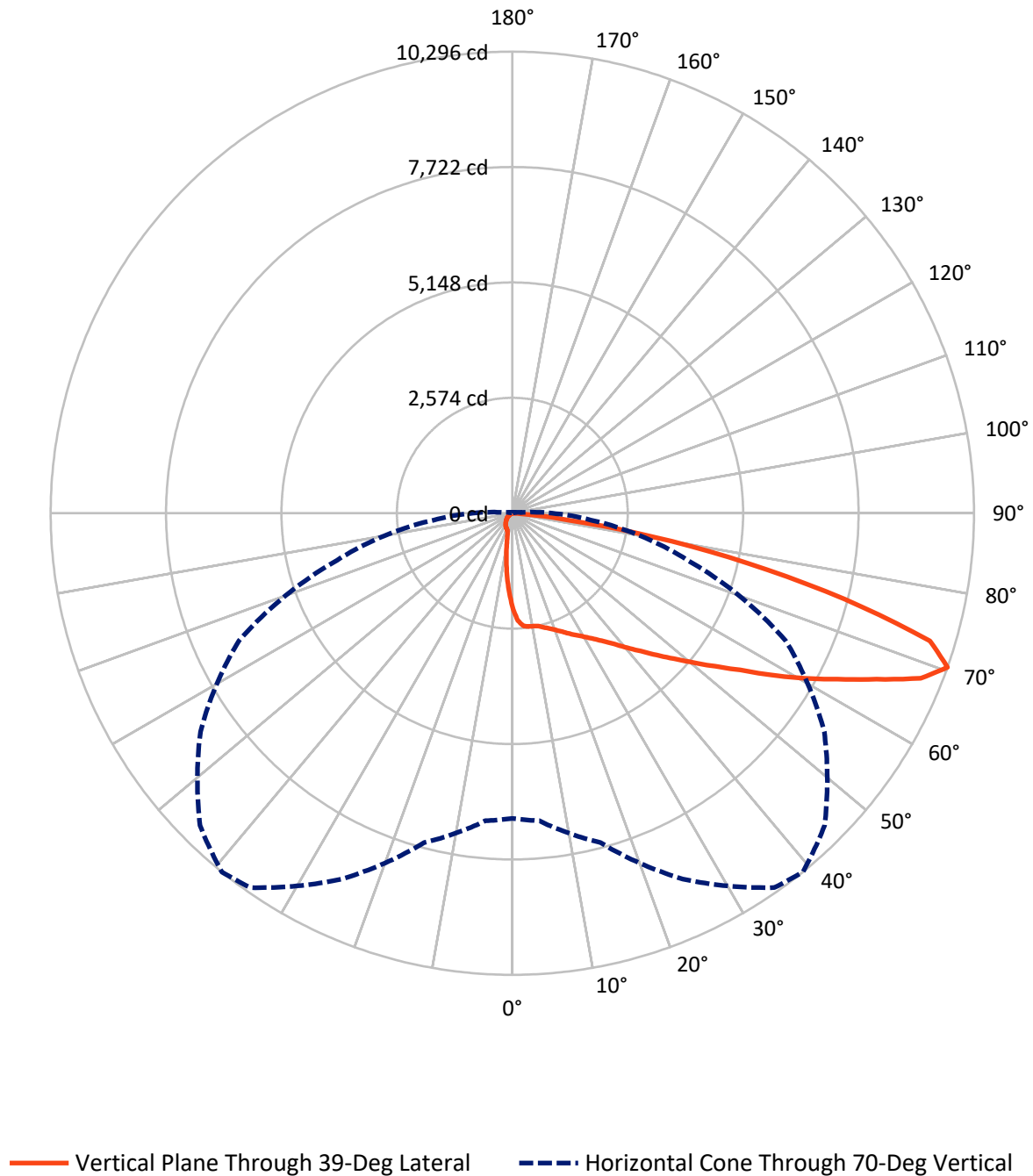
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P452694
CATALOG NUMBER: GALN-SA3C-830-U-SL4-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P452694

CATALOG NUMBER: GALN-SA3C-830-U-SL4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	894.5	0.0	894.5
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	12823.5	0.0	12823.5
	% Fixture	93.5	0.0	93.5
Total	Lumens	13718.0	0.0	13718.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.6	1.3
10°-20°	474.4	3.5
20°-30°	794.8	5.8
30°-40°	1232.7	9.0
40°-50°	1953.4	14.2
50°-60°	2863.4	20.9
60°-70°	3670.2	26.8
70°-80°	2306.2	16.8
80°-90°	240.3	1.8
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°	13718.0	100.0
0°-180°	13718.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452694

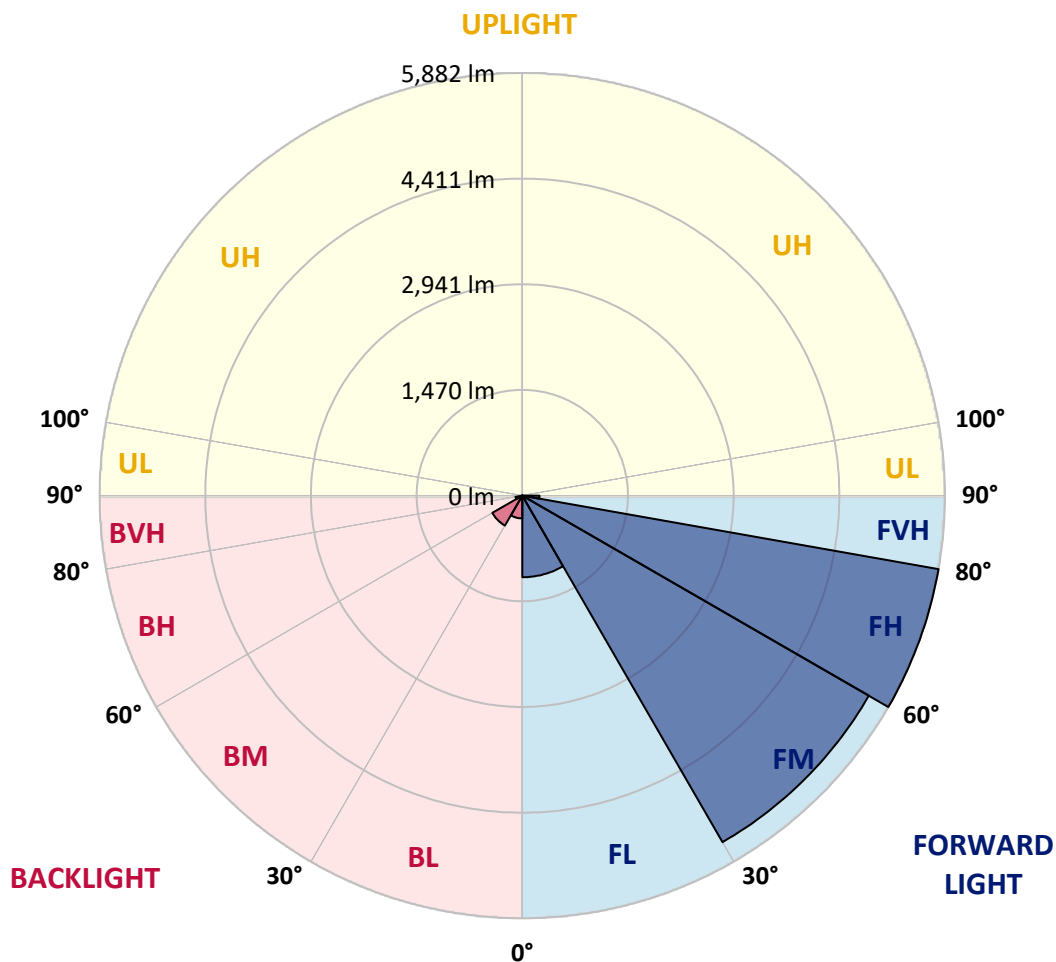
CATALOG NUMBER: GALN-SA3C-830-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1135.1	8.3			
FM	(30°-60°)	5568.1	40.6			
FH	(60°-80°)	5881.8	42.9			G3/7500
FVH	(80°-90°)	238.5	1.7			G3/500
BL	(0°-30°)	316.7	2.3	B1/500		
BM	(30°-60°)	481.4	3.5	B1/1000		
BH	(60°-80°)	94.6	0.7	B0/110		G0/110
BVH	(80°-90°)	1.8	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-G3

Type IV Short





REPORT NUMBER: P452694

CATALOG NUMBER: GALN-SA3C-830-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2140.5	2140.5	2140.5	2140.5	2140.5	2140.5	2140.5	2140.5	2140.5	2140.5	2140.5
2.5°	2473.3	2465.0	2453.9	2441.0	2404.1	2397.7	2375.5	2328.5	2272.3	2226.2	2162.6
5°	2590.3	2594.9	2586.6	2563.6	2536.9	2521.2	2493.5	2420.7	2347.9	2254.8	2150.6
7.5°	2617.1	2626.3	2616.1	2594.0	2568.2	2551.6	2529.5	2466.8	2382.0	2276.0	2133.1
10°	2614.3	2625.4	2618.9	2598.6	2577.4	2561.8	2537.8	2488.0	2419.8	2308.3	2138.6
12.5°	2609.7	2624.4	2623.5	2613.4	2595.9	2583.9	2569.1	2524.9	2461.3	2355.3	2169.1
15°	2596.8	2615.2	2631.8	2640.1	2641.0	2641.0	2622.6	2575.6	2514.7	2417.0	2208.7
17.5°	2602.3	2623.5	2665.0	2689.0	2705.6	2703.7	2684.4	2633.7	2566.4	2480.6	2250.2
20°	2636.4	2665.0	2723.1	2771.0	2787.6	2782.1	2756.3	2697.3	2620.7	2535.0	2290.7
22.5°	2720.3	2746.1	2818.9	2875.2	2887.2	2872.4	2835.5	2755.3	2686.2	2594.0	2339.6
25°	2845.7	2876.1	2943.4	2985.8	2985.8	2977.5	2925.9	2831.8	2759.9	2676.1	2403.2
27.5°	2997.8	3023.6	3090.0	3127.8	3105.6	3081.7	3030.0	2916.7	2847.5	2779.3	2479.7
30°	3151.7	3168.3	3238.4	3255.0	3231.9	3201.5	3146.2	3032.8	2972.0	2919.4	2590.3
32.5°	3297.4	3333.3	3391.4	3387.7	3356.4	3341.6	3290.9	3170.2	3136.0	3130.5	2745.2
35°	3443.0	3470.7	3522.3	3535.2	3507.5	3504.8	3467.9	3378.5	3379.4	3415.4	2986.7
37.5°	3568.4	3593.3	3654.1	3682.7	3688.2	3702.1	3687.3	3628.3	3712.2	3810.8	3306.6
40°	3673.5	3708.5	3785.9	3835.7	3892.9	3943.6	3946.3	3959.2	4127.9	4297.5	3724.2
42.5°	3755.5	3804.4	3916.8	4009.0	4139.9	4204.4	4256.1	4327.0	4611.0	4864.5	4216.4
45°	3862.4	3918.7	4058.8	4203.5	4408.2	4514.2	4586.1	4776.0	5178.8	5524.5	4721.6
47.5°	4039.4	4068.9	4211.8	4422.9	4692.1	4843.3	4983.4	5271.0	5788.1	6097.9	5141.9
50°	4267.1	4286.5	4394.3	4687.5	5035.9	5235.0	5490.4	5828.7	6420.5	6573.5	5379.8
52.5°	4518.8	4525.2	4606.4	4978.8	5421.3	5672.0	5957.8	6375.3	6935.8	6912.8	5537.4
55°	4811.0	4801.8	4870.9	5295.0	5877.6	6164.2	6497.0	6934.9	7382.9	7153.4	5627.7
57.5°	5145.6	5120.7	5188.0	5714.4	6462.0	6804.9	7143.2	7417.9	7729.5	7355.2	5671.1
60°	5495.9	5446.1	5526.3	6185.4	7150.6	7476.0	7757.2	7830.9	8094.5	7515.6	5596.4
62.5°	5775.2	5776.2	5925.5	6686.9	7858.6	8143.4	8292.7	8359.1	8408.9	7480.6	5203.7
65°	6211.3	6226.0	6464.8	7382.9	8678.1	8925.1	9027.4	8811.7	8422.7	7045.5	4613.7
67.5°	6661.1	6708.1	7145.1	8341.6	9624.8	9823.9	9692.1	8899.3	8046.6	6052.7	3498.3
70°	6807.7	6885.1	7605.1	9001.6	10192.6	10295.9	9849.7	8490.9	6726.6	4046.8	1760.7
72.5°	6238.0	6363.4	7340.5	8761.0	9830.3	9740.9	8812.7	7121.1	4276.3	1536.7	537.4
75°	4399.0	4454.3	6100.6	7267.7	7906.5	7653.0	6703.5	4590.7	1758.8	431.4	184.4
77.5°	2271.4	2244.6	3628.3	4822.1	5638.8	5376.1	4389.7	2376.5	666.5	179.8	114.3
80°	1174.4	1193.8	1569.9	2526.7	3442.1	3167.4	2340.5	1101.6	354.9	99.6	87.6
82.5°	658.2	617.6	902.5	1103.4	1609.5	1262.0	897.9	779.9	154.9	59.9	83.0
85°	119.8	125.4	495.0	596.4	558.6	354.9	289.5	520.8	45.2	33.2	58.1
87.5°	1.8	1.8	95.9	171.5	108.8	49.8	91.3	74.7	9.2	12.9	10.1
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: P452694

CATALOG NUMBER: GALN-SA3C-830-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2140.5	2140.5	2140.5	2140.5	2140.5	2140.5	2140.5	2140.5	2140.5	2140.5	2140.5
2.5°	2130.3	2095.3	2029.9	1965.3	1883.3	1816.0	1770.8	1723.8	1675.9	1679.6	1690.6
5°	2093.5	2032.6	1903.6	1767.1	1636.2	1518.2	1402.1	1297.9	1255.5	1216.8	1218.7
7.5°	2056.6	1970.9	1781.9	1568.0	1369.8	1168.9	1023.2	903.4	839.8	791.8	778.0
10°	2040.0	1926.6	1670.3	1376.3	1095.1	875.7	688.6	590.9	515.3	491.3	497.8
12.5°	2047.4	1904.5	1569.9	1203.0	868.4	610.2	479.3	429.6	413.0	410.2	408.4
15°	2061.2	1888.8	1471.2	1011.2	637.9	453.5	402.8	393.6	391.8	389.9	390.9
17.5°	2079.6	1875.0	1366.1	831.5	489.5	396.4	381.6	377.0	376.1	376.1	376.1
20°	2098.1	1859.3	1249.1	671.1	408.4	374.3	365.0	362.3	361.4	361.4	360.4
22.5°	2119.3	1845.5	1130.2	527.3	376.1	358.6	350.3	348.4	347.5	346.6	346.6
25°	2149.7	1828.0	1003.9	431.4	355.8	343.8	335.5	333.7	332.8	329.1	330.0
27.5°	2190.3	1815.1	873.9	372.4	337.4	325.4	319.9	317.1	315.3	312.5	313.4
30°	2245.6	1804.0	735.6	340.2	316.2	306.0	300.5	298.7	296.8	294.1	294.1
32.5°	2341.4	1808.6	590.0	314.3	296.8	284.8	279.3	277.5	275.6	272.9	272.9
35°	2485.2	1835.4	472.0	292.2	273.8	261.8	256.3	256.3	253.5	249.8	248.9
37.5°	2720.3	1903.6	378.9	271.0	251.7	240.6	234.1	232.3	229.5	224.0	223.1
40°	2997.8	2009.6	319.0	249.8	231.4	220.3	214.8	209.3	201.9	196.3	195.4
42.5°	3346.2	2118.4	276.5	228.6	212.0	201.9	195.4	186.2	175.1	167.8	166.9
45°	3709.4	2217.9	248.0	209.3	193.6	185.3	177.9	163.2	149.3	140.1	139.2
47.5°	3980.4	2236.3	224.9	190.8	177.9	169.6	159.5	141.0	122.6	114.3	111.5
50°	4108.6	2146.9	201.0	172.4	162.2	153.0	140.1	118.9	98.6	88.5	86.7
52.5°	4153.7	1992.1	181.6	155.8	146.6	135.5	119.8	95.9	77.4	67.3	66.4
55°	4135.3	1796.6	164.1	140.1	128.1	115.2	99.6	76.5	57.2	48.9	47.0
57.5°	4038.5	1547.7	146.6	124.4	109.7	96.8	79.3	57.2	38.7	31.3	30.4
60°	3777.6	1208.5	129.1	106.9	93.1	79.3	62.7	40.6	24.0	17.5	17.5
62.5°	3337.0	896.9	112.5	89.4	78.4	63.6	44.2	25.8	12.9	9.2	8.3
65°	2788.5	661.9	94.0	75.6	65.4	49.8	31.3	15.7	6.5	2.8	1.8
67.5°	1946.0	408.4	78.4	61.8	53.5	36.0	19.4	6.5	2.8	0.0	0.0
70°	884.0	194.5	59.9	47.0	40.6	25.8	10.1	3.7	1.8	0.0	0.0
72.5°	274.7	102.3	42.4	34.1	27.7	16.6	5.5	2.8	1.8	0.0	0.0
75°	127.2	65.4	26.7	18.4	15.7	8.3	3.7	1.8	0.9	0.0	0.0
77.5°	94.9	50.7	15.7	10.1	8.3	5.5	2.8	1.8	0.9	0.0	0.0
80°	83.0	25.8	9.2	6.5	4.6	3.7	1.8	0.9	0.0	0.0	0.0
82.5°	74.7	12.9	5.5	3.7	2.8	1.8	0.9	0.9	0.0	0.0	0.0
85°	40.6	7.4	3.7	2.8	1.8	0.9	0.9	0.0	0.0	0.0	0.0
87.5°	7.4	3.7	2.8	1.8	1.8	0.9	0.9	0.9	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)