

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: P452144

Luminaire Tested: **GALN-SA3A-750-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452144
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-750-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13363 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

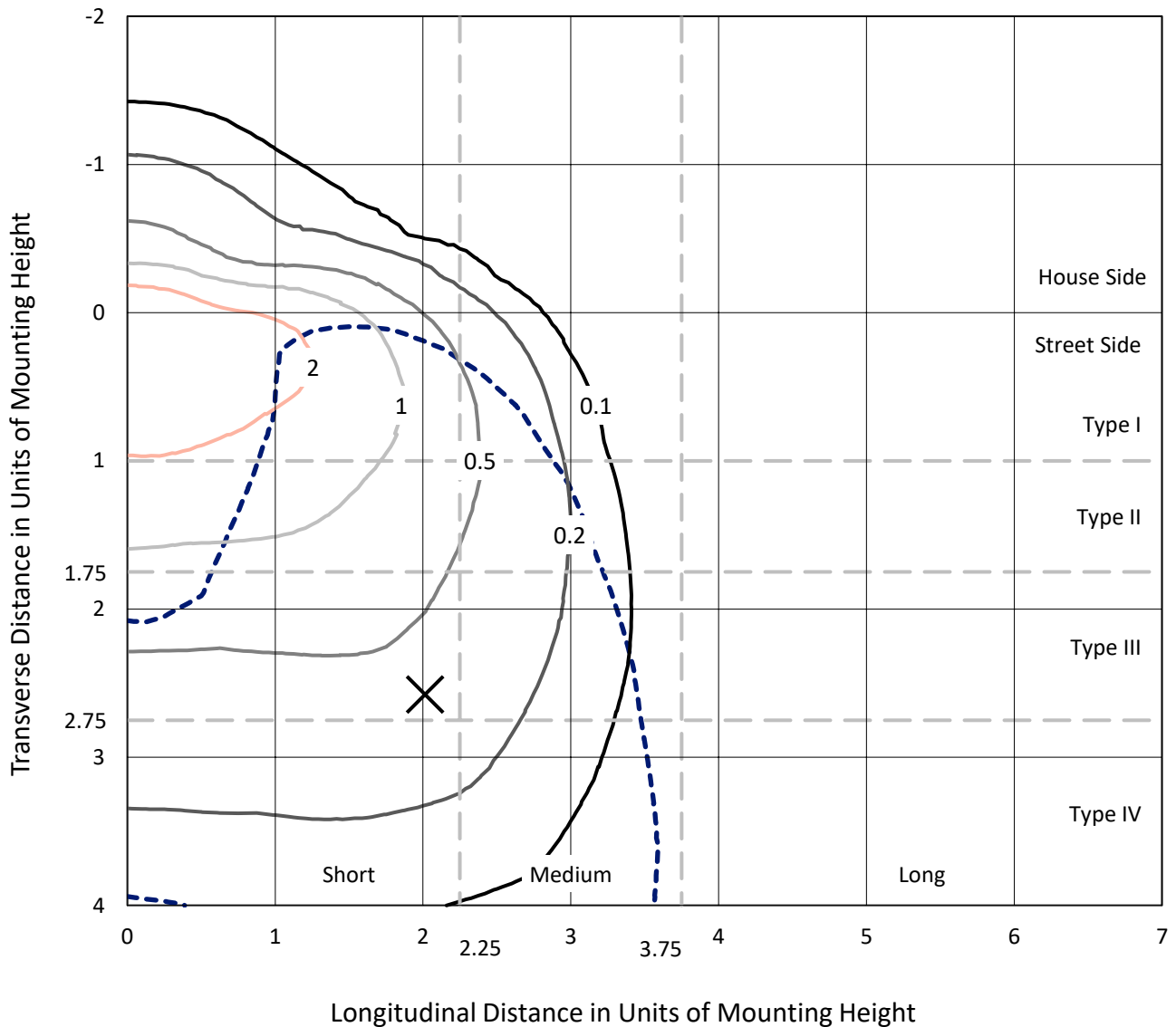
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

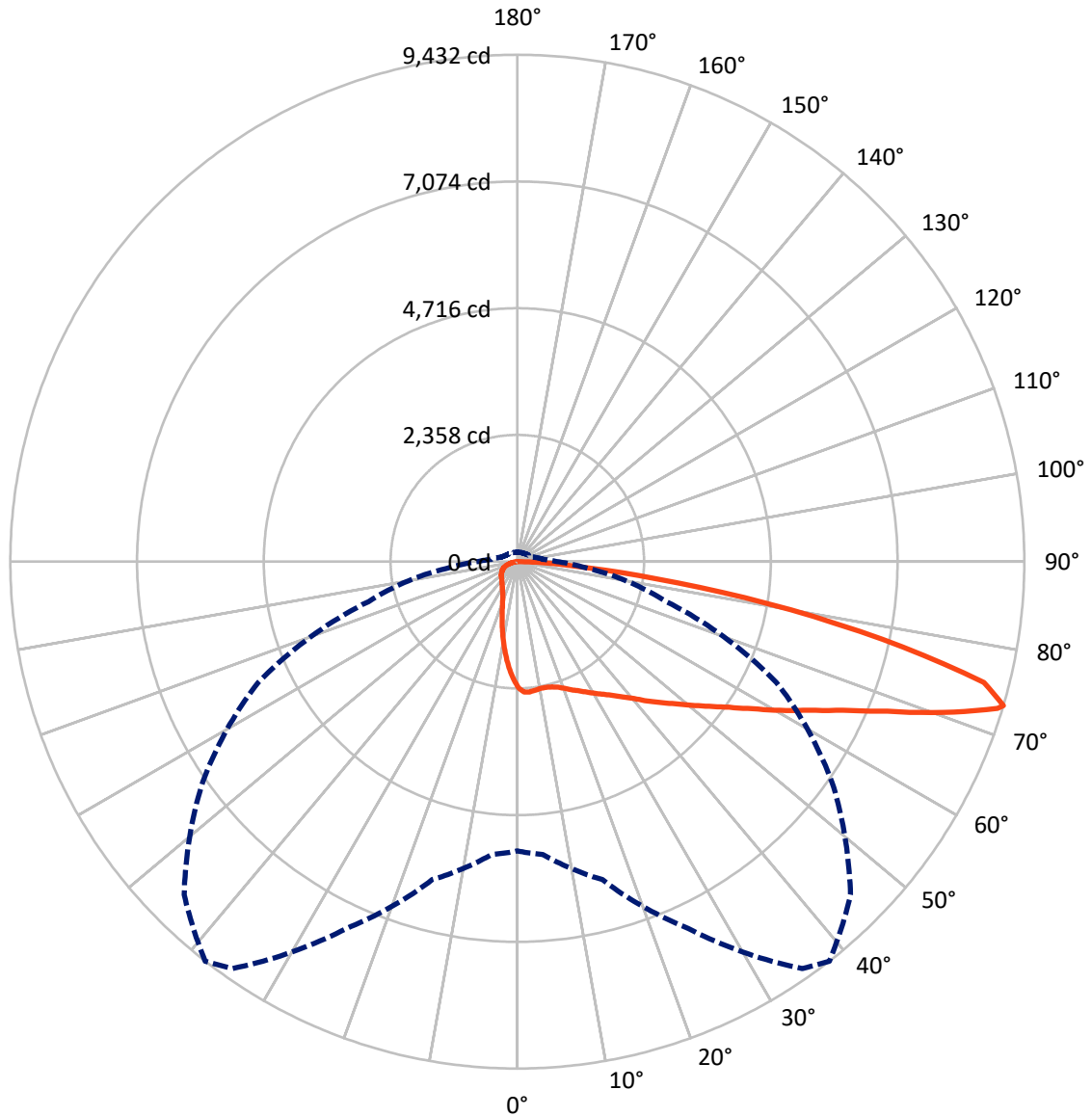
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1796.4	0.0	1796.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	11566.6	0.0	11566.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	13363.0	0.0	13363.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.9	1.5
10°-20°	525.5	3.9
20°-30°	818.3	6.1
30°-40°	1200.2	9.0
40°-50°	1780.4	13.3
50°-60°	2522.5	18.9
60°-70°	3199.9	23.9
70°-80°	2663.7	19.9
80°-90°	447.5	3.3
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°	13363.0	100.0
0°-180°	13363.0	100.0



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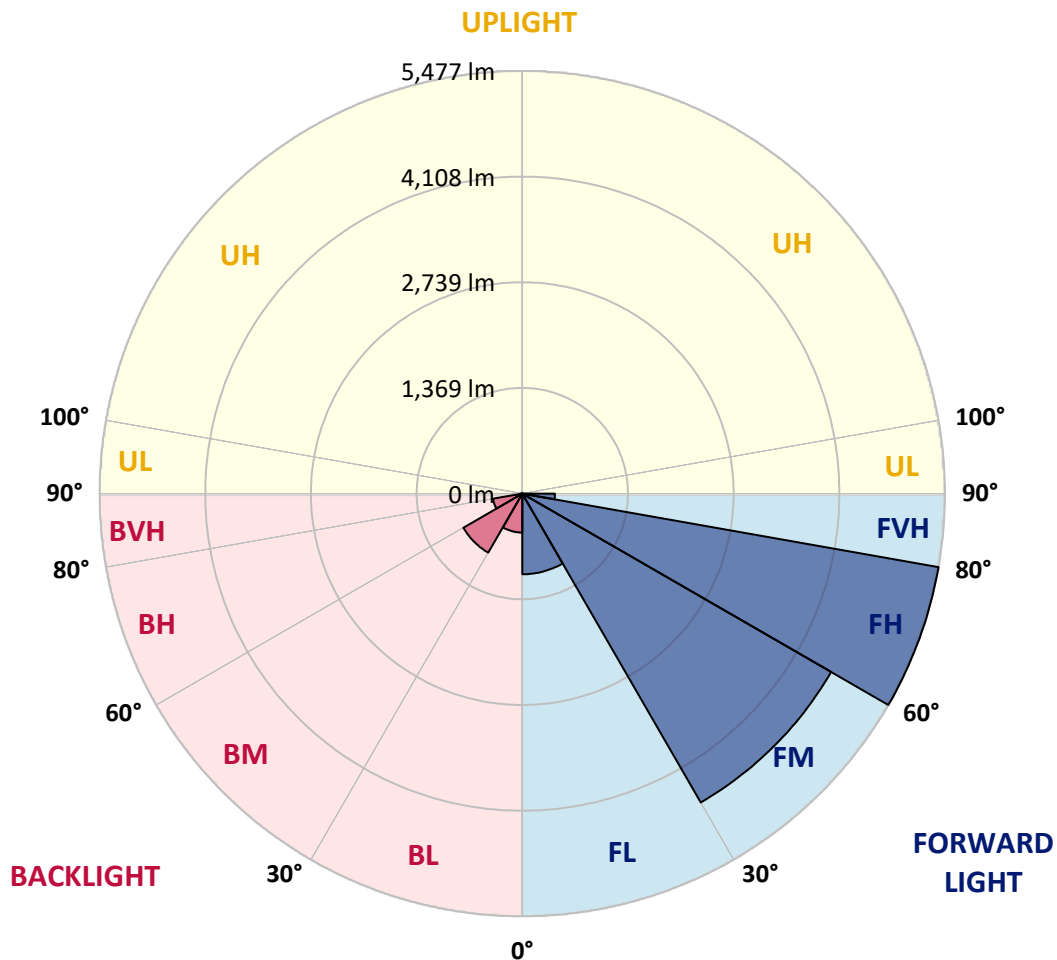
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1044.6	7.8			
FM	(30°-60°)	4621.3	34.6			
FH	(60°-80°)	5477.4	41.0			G3/7500
FVH	(80°-90°)	423.3	3.2			G3/500
BL	(0°-30°)	504.1	3.8	B2/1000		
BM	(30°-60°)	881.9	6.6	B1/1000		
BH	(60°-80°)	386.1	2.9	B1/500		G1/500
BVH	(80°-90°)	24.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2347.7	2347.7	2347.7	2347.7	2347.7	2347.7	2347.7	2347.7	2347.7	2347.7	2347.7
2.5°	2442.0	2454.1	2448.0	2439.7	2434.4	2429.2	2421.6	2399.7	2382.4	2363.5	2334.1
5°	2460.1	2467.6	2462.4	2451.8	2439.7	2434.4	2420.1	2391.4	2363.5	2331.8	2288.0
7.5°	2449.5	2452.5	2446.5	2433.7	2423.1	2413.3	2396.7	2365.0	2331.1	2292.6	2235.2
10°	2411.8	2423.1	2423.1	2412.6	2402.0	2396.7	2380.1	2349.9	2319.0	2275.2	2207.3
12.5°	2380.9	2392.9	2402.7	2399.7	2399.0	2399.0	2386.1	2363.5	2327.3	2285.8	2205.0
15°	2359.7	2374.1	2395.2	2407.3	2414.8	2417.1	2411.8	2392.2	2355.2	2306.9	2214.1
17.5°	2355.2	2372.6	2411.0	2437.5	2457.1	2456.3	2454.8	2427.6	2386.9	2337.1	2225.4
20°	2375.6	2398.2	2451.8	2493.3	2522.0	2516.7	2508.4	2472.9	2425.4	2369.5	2236.0
22.5°	2436.7	2460.1	2519.0	2564.2	2592.2	2592.2	2567.2	2520.5	2469.9	2407.3	2250.3
25°	2524.2	2549.9	2612.5	2658.6	2671.4	2661.6	2636.7	2580.1	2522.0	2461.6	2280.5
27.5°	2631.4	2662.3	2720.4	2758.9	2755.2	2747.6	2721.9	2649.5	2591.4	2536.3	2331.8
30°	2765.0	2787.6	2848.0	2857.0	2843.4	2841.9	2805.7	2733.3	2678.9	2636.7	2405.0
32.5°	2891.0	2911.4	2959.7	2963.4	2939.3	2942.3	2908.3	2841.9	2811.0	2795.9	2528.0
35°	3024.6	3035.1	3076.6	3072.1	3056.2	3054.0	3040.4	2977.0	2986.8	3014.0	2702.3
37.5°	3136.2	3157.4	3180.8	3184.5	3183.8	3191.3	3200.4	3170.2	3226.8	3312.1	2931.0
40°	3238.9	3257.0	3291.7	3303.8	3333.2	3348.3	3379.2	3380.0	3510.5	3650.9	3212.5
42.5°	3308.3	3339.2	3404.1	3426.0	3497.7	3543.0	3589.0	3638.1	3827.5	4007.8	3544.5
45°	3368.7	3409.4	3517.3	3585.2	3682.6	3737.7	3835.0	3937.7	4210.1	4446.3	3881.8
47.5°	3460.0	3496.2	3620.0	3739.9	3887.1	3950.5	4096.1	4249.3	4605.5	4864.3	4204.8
50°	3586.8	3608.6	3734.7	3930.1	4118.0	4199.5	4391.9	4613.1	5028.1	5277.1	4488.5
52.5°	3749.0	3758.1	3858.4	4118.8	4366.3	4467.4	4722.5	4980.6	5397.9	5635.6	4713.4
55°	3940.7	3925.6	4004.1	4318.7	4650.0	4782.1	5056.0	5352.6	5813.7	5925.4	4877.2
57.5°	4130.1	4106.7	4169.3	4561.7	5000.2	5159.4	5478.6	5735.9	6184.9	6196.3	4991.9
60°	4330.8	4313.5	4388.2	4847.0	5429.6	5618.2	5913.3	6133.6	6544.1	6384.9	5010.0
62.5°	4536.8	4508.9	4615.3	5167.7	5913.3	6084.6	6370.6	6556.2	6896.6	6455.1	4835.7
65°	4736.8	4724.0	4888.5	5548.8	6464.2	6658.9	6936.6	7062.6	7178.8	6349.5	4403.3
67.5°	4949.6	4975.3	5237.9	6057.4	7182.6	7427.1	7726.7	7608.2	7259.5	5849.1	3708.2
70°	5274.1	5290.7	5696.7	6723.7	8108.5	8403.6	8548.4	7802.1	6870.1	4899.1	2787.6
72.5°	5413.7	5486.9	6106.5	7423.3	9160.4	9340.8	8824.6	7369.7	5723.1	3327.9	1464.7
73°	5382.8	5470.3	6125.3	7529.7	9242.7	9432.1	8765.8	7147.1	5320.1	2866.1	1255.7
75°	4997.2	5105.1	5880.1	7440.6	9082.7	8969.5	7819.5	6091.4	3595.1	1303.2	572.0
77.5°	3942.9	3973.9	4659.1	6008.4	7152.4	6942.6	5852.2	3807.1	1468.5	484.5	324.5
80°	1977.9	2091.8	2626.1	3441.9	4782.8	4714.2	3693.9	1800.5	612.0	284.5	215.1
82.5°	951.6	1032.3	1279.1	1678.3	2642.7	2580.1	1829.2	984.0	388.6	166.0	126.8
85°	612.8	673.1	814.2	800.7	1086.7	1037.6	821.8	744.8	230.2	86.8	88.3
87.5°	404.5	443.0	531.3	424.9	395.4	357.7	363.0	419.6	45.3	33.2	12.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2347.7	2347.7	2347.7	2347.7	2347.7	2347.7	2347.7	2347.7	2347.7	2347.7	2347.7
2.5°	2322.0	2312.2	2279.7	2248.0	2217.9	2189.2	2170.3	2145.4	2128.8	2133.3	2140.1
5°	2263.9	2242.0	2184.7	2128.8	2076.0	2013.4	1962.8	1922.0	1891.1	1879.8	1877.5
7.5°	2202.8	2165.8	2083.5	1987.7	1897.9	1820.2	1730.4	1685.8	1633.8	1615.7	1609.6
10°	2165.8	2116.0	2000.5	1867.0	1731.9	1602.8	1505.5	1426.2	1354.6	1341.0	1334.2
12.5°	2155.2	2089.6	1934.1	1762.1	1582.5	1424.0	1279.9	1175.7	1106.3	1090.4	1067.0
15°	2149.2	2067.7	1872.2	1656.4	1428.5	1235.3	1083.6	962.2	898.8	856.5	857.3
17.5°	2143.9	2042.8	1802.8	1541.0	1295.7	1073.1	905.6	796.1	738.0	715.4	713.1
20°	2136.4	2013.4	1722.8	1419.5	1144.0	925.2	773.5	692.0	652.8	633.9	633.1
22.5°	2133.3	1984.7	1644.3	1295.7	1009.7	811.2	686.0	628.6	603.7	590.9	590.9
25°	2140.9	1964.3	1562.1	1178.0	890.5	713.9	625.6	586.3	572.0	565.2	563.0
27.5°	2164.3	1955.2	1480.6	1060.3	781.0	647.5	584.8	557.7	547.1	541.8	542.6
30°	2208.8	1954.5	1400.6	944.0	699.5	596.9	552.4	533.5	525.2	522.2	521.4
32.5°	2280.5	1971.1	1322.1	848.2	630.9	554.7	522.2	508.6	504.8	502.6	501.8
35°	2402.0	2017.9	1244.4	760.7	578.0	516.9	493.5	486.7	481.5	483.7	484.5
37.5°	2565.7	2098.6	1170.4	692.0	538.1	489.0	469.4	463.3	460.3	462.6	464.9
40°	2785.3	2214.8	1108.6	636.9	509.4	465.6	448.2	443.0	439.9	443.7	444.5
42.5°	3027.6	2349.2	1057.2	593.9	486.0	446.0	429.4	423.3	421.1	423.3	424.1
45°	3276.6	2505.4	1030.8	563.0	466.4	431.6	414.3	407.5	402.2	400.7	403.0
47.5°	3521.9	2641.2	1030.1	544.1	450.5	418.8	400.0	392.4	385.6	381.8	381.1
50°	3721.8	2749.1	1048.2	535.8	436.9	404.5	385.6	378.1	369.0	361.5	363.0
52.5°	3872.8	2819.3	1056.5	532.0	429.4	389.4	370.5	363.7	353.2	343.4	343.4
55°	3970.1	2835.9	1036.1	528.2	423.3	373.5	353.2	347.1	336.6	326.8	326.8
57.5°	4003.3	2784.6	962.9	519.2	417.3	360.0	335.8	330.5	322.2	312.4	310.9
60°	3926.3	2611.0	834.6	492.0	405.2	345.6	316.9	314.7	311.7	303.4	302.6
62.5°	3629.8	2242.8	695.0	456.6	384.9	330.5	299.6	303.4	305.6	301.1	300.3
65°	3136.2	1820.9	593.9	407.5	357.7	309.4	280.7	290.5	296.6	296.6	295.1
67.5°	2543.9	1398.3	500.3	365.2	323.7	280.7	259.6	267.1	271.7	270.2	273.9
70°	1808.1	947.1	407.5	316.9	280.7	248.3	232.4	232.4	229.4	227.9	227.9
72.5°	876.9	541.1	330.5	264.9	239.2	212.1	199.2	193.9	187.9	187.1	183.4
73°	732.7	485.2	315.4	255.1	229.4	206.8	192.4	184.1	180.4	177.3	176.6
75°	446.0	368.3	263.4	215.1	195.4	178.1	165.3	157.7	153.9	151.7	150.9
77.5°	293.6	274.7	204.5	164.5	149.4	138.9	133.6	126.0	123.8	120.7	120.7
80°	218.8	209.8	146.4	116.2	107.2	98.1	96.6	95.1	89.0	85.3	83.8
82.5°	141.1	149.4	99.6	77.7	67.9	60.4	61.1	63.4	57.4	52.1	50.6
85°	100.4	107.9	60.4	35.5	28.7	24.9	27.9	24.9	25.7	20.4	16.6
87.5°	16.6	28.7	10.6	4.5	2.3	1.5	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)