

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: P452550

Luminaire Tested: **GALN-SA3C-730-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452550
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-SA3C-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA 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: 18709 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

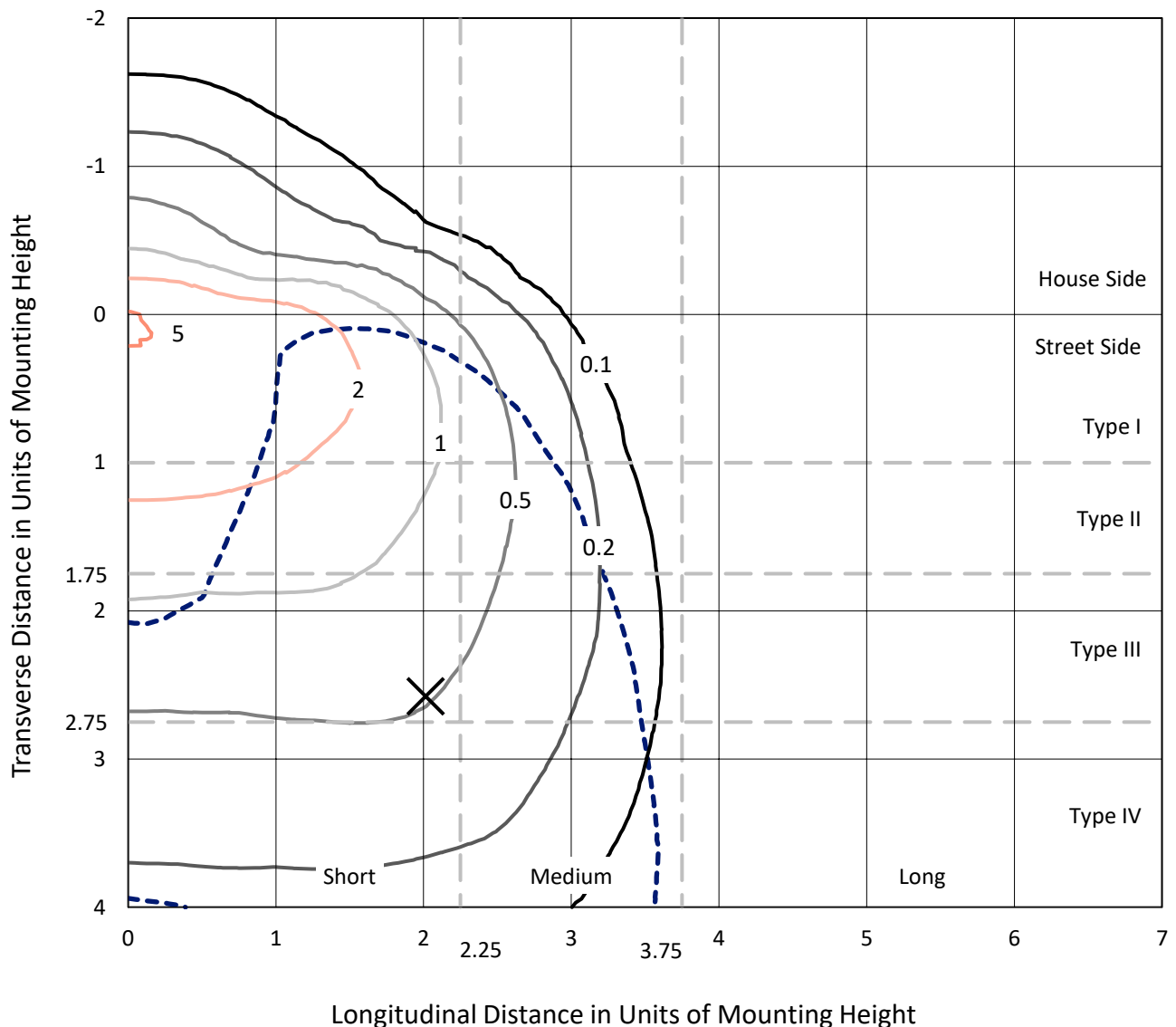
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

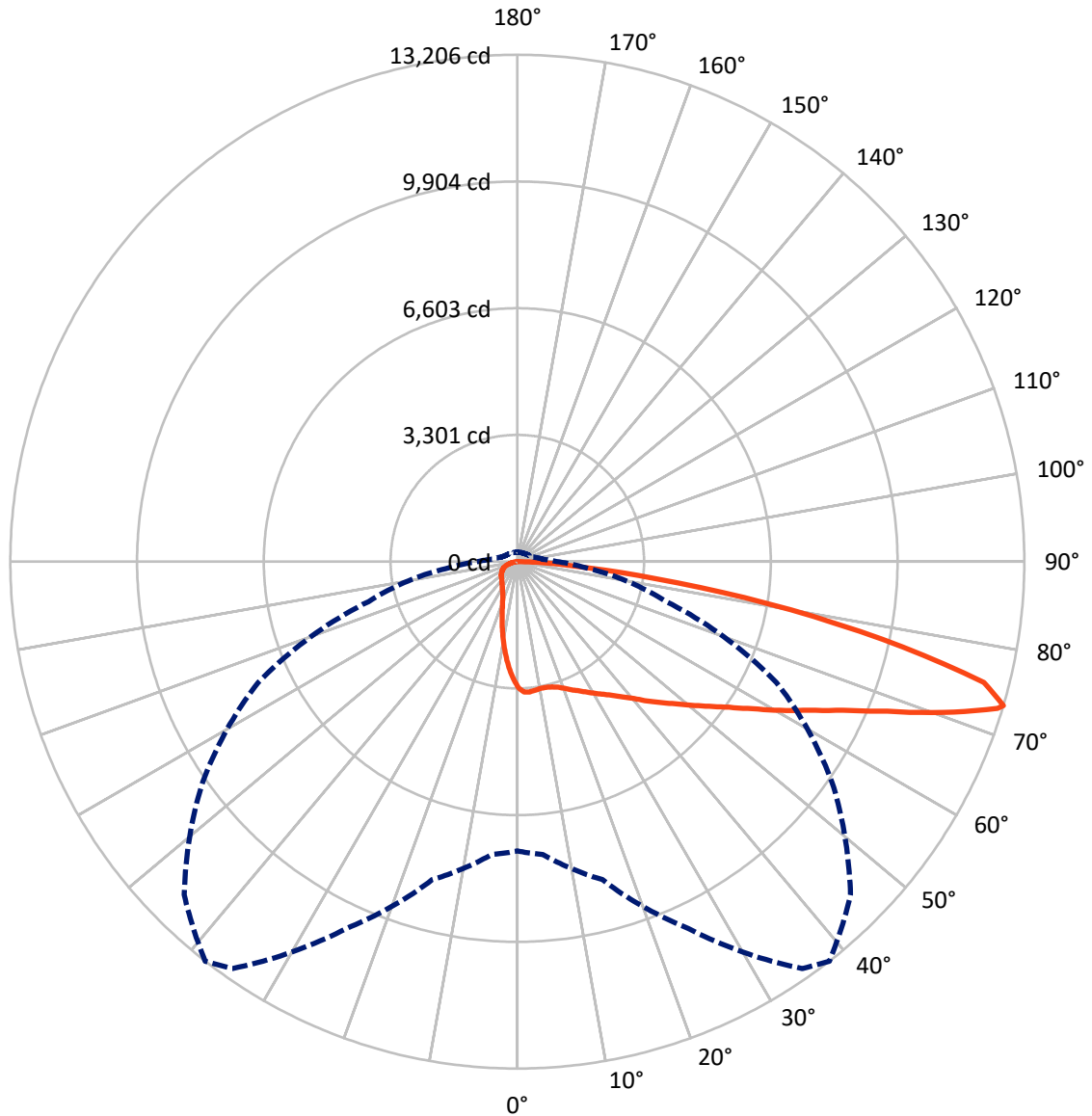
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	2515.0	0.0	2515.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	16194.0	0.0	16194.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	18709.0	0.0	18709.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.9	1.5
10°-20°	735.7	3.9
20°-30°	1145.7	6.1
30°-40°	1680.4	9.0
40°-50°	2492.7	13.3
50°-60°	3531.7	18.9
60°-70°	4480.0	23.9
70°-80°	3729.3	19.9
80°-90°	626.6	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°	18709.0	100.0
0°-180°	18709.0	100.0

Coefficient of Utilization



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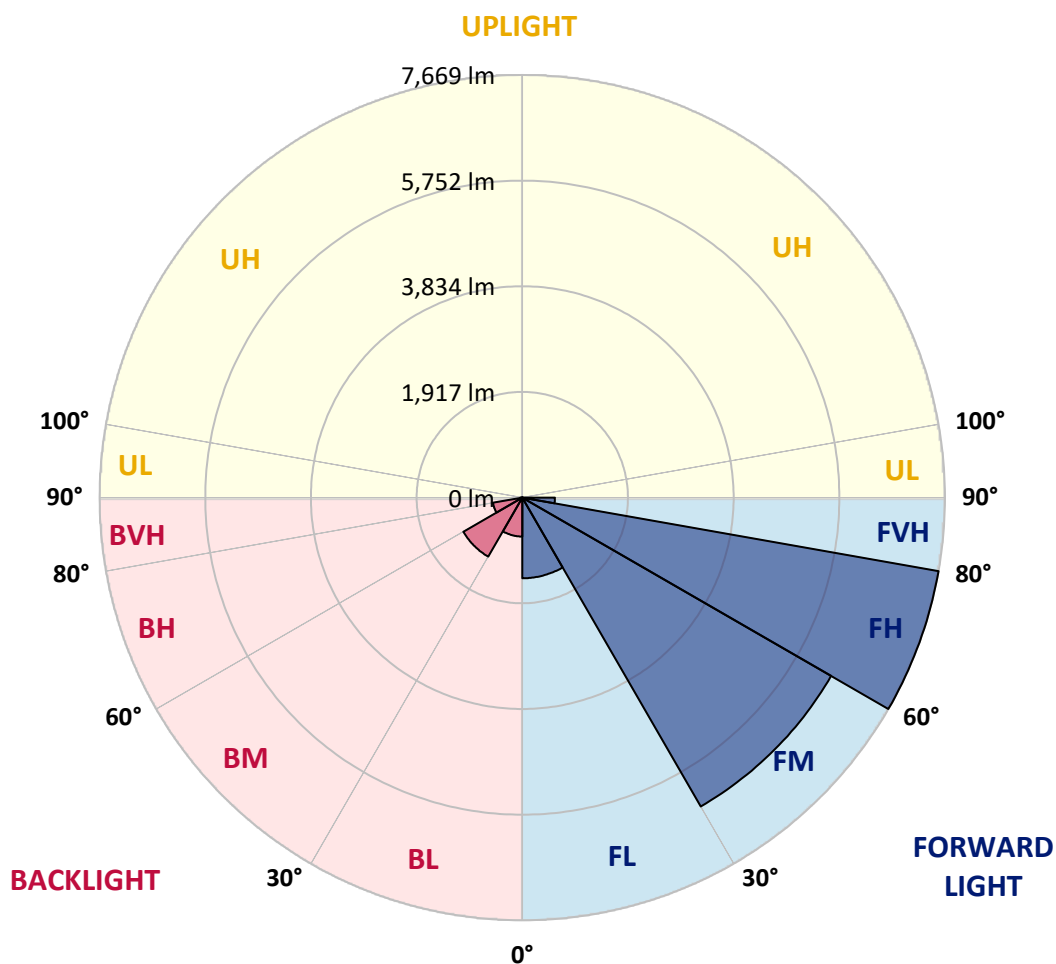
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1462.5	7.8			
FM (30°-60°)	6470.1	34.6			
FH (60°-80°)	7668.7	41.0			G4/12000
FVH (80°-90°)	592.6	3.2			G4/750
BL (0°-30°)	705.7	3.8	B2/1000		
BM (30°-60°)	1234.7	6.6	B2/2500		
BH (60°-80°)	540.6	2.9	B2/1000		G2/1000
BVH (80°-90°)	34.0	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3286.9	3286.9	3286.9	3286.9	3286.9	3286.9	3286.9	3286.9	3286.9	3286.9	3286.9
2.5°	3418.9	3435.8	3427.4	3415.8	3408.4	3401.0	3390.4	3359.8	3335.5	3309.0	3267.8
5°	3444.3	3454.8	3447.4	3432.7	3415.8	3408.4	3388.3	3348.1	3309.0	3264.7	3203.4
7.5°	3429.5	3433.7	3425.3	3407.3	3392.5	3378.8	3355.5	3311.2	3263.6	3209.7	3129.4
10°	3376.7	3392.5	3392.5	3377.7	3362.9	3355.5	3332.3	3290.0	3246.7	3185.4	3090.3
12.5°	3333.3	3350.2	3364.0	3359.8	3358.7	3358.7	3340.7	3309.0	3258.3	3200.2	3087.2
15°	3303.8	3323.8	3353.4	3370.3	3380.9	3384.1	3376.7	3349.2	3297.4	3229.8	3099.8
17.5°	3297.4	3321.7	3375.6	3412.6	3440.1	3439.0	3436.9	3398.8	3341.8	3272.1	3115.7
20°	3325.9	3357.6	3432.7	3490.8	3530.9	3523.5	3511.9	3462.2	3395.7	3317.5	3130.5
22.5°	3411.5	3444.3	3526.7	3590.1	3629.2	3629.2	3594.3	3528.8	3458.0	3370.3	3150.6
25°	3534.1	3570.0	3657.7	3722.1	3740.1	3726.4	3691.5	3612.3	3530.9	3446.4	3192.8
27.5°	3684.1	3727.4	3808.8	3862.7	3857.4	3846.8	3810.9	3709.5	3628.1	3551.0	3264.7
30°	3871.1	3902.8	3987.3	4000.0	3981.0	3978.9	3928.2	3826.7	3750.7	3691.5	3367.2
32.5°	4047.6	4076.1	4143.7	4149.0	4115.2	4119.4	4071.9	3978.9	3935.6	3914.4	3539.4
35°	4234.6	4249.3	4307.5	4301.1	4278.9	4275.8	4256.7	4168.0	4181.7	4219.8	3783.4
37.5°	4390.9	4420.5	4453.3	4458.5	4457.5	4468.1	4480.7	4438.5	4517.7	4637.1	4103.5
40°	4534.6	4560.0	4608.6	4625.5	4666.7	4687.8	4731.1	4732.2	4915.0	5111.5	4497.6
42.5°	4631.8	4675.1	4766.0	4796.6	4897.0	4960.4	5024.8	5093.5	5358.7	5611.2	4962.5
45°	4716.3	4773.4	4924.5	5019.6	5155.8	5233.0	5369.3	5513.0	5894.4	6225.1	5434.8
47.5°	4844.2	4894.9	5068.2	5236.1	5442.2	5530.9	5734.8	5949.3	6448.0	6810.4	5887.0
50°	5021.7	5052.3	5228.8	5502.4	5765.5	5879.6	6149.0	6458.5	7039.6	7388.3	6284.2
52.5°	5248.8	5261.5	5402.0	5766.5	6113.1	6254.6	6611.7	6973.1	7557.3	7890.1	6599.1
55°	5517.2	5496.1	5605.9	6046.5	6510.3	6695.2	7078.7	7493.9	8139.5	8295.8	6828.3
57.5°	5782.4	5749.6	5837.3	6386.7	7000.5	7223.5	7670.4	8030.7	8659.3	8675.1	6988.9
60°	6063.4	6039.1	6143.7	6786.1	7601.7	7865.8	8278.9	8587.4	9162.2	8939.3	7014.3
62.5°	6351.8	6312.7	6461.7	7235.1	8278.9	8518.8	8919.2	9179.1	9655.6	9037.5	6770.2
65°	6631.8	6613.9	6844.2	7768.6	9050.2	9322.8	9711.6	9888.0	10050.7	8889.6	6164.8
67.5°	6929.8	6965.7	7333.4	8480.7	10056.0	10398.3	10817.8	10651.9	10163.8	8189.1	5191.8
70°	7384.1	7407.3	7975.7	9413.7	11352.4	11765.5	11968.3	10923.4	9618.6	6859.0	3902.8
72.5°	7579.5	7682.0	8549.4	10393.1	12825.2	13077.7	12355.0	10318.0	8012.7	4659.3	2050.7
73°	7536.2	7658.8	8575.8	10542.0	12940.3	13205.5	12272.6	10006.4	7448.5	4012.7	1758.1
75°	6996.3	7147.4	8232.5	10417.4	12716.4	12557.9	10947.7	8528.3	5033.3	1824.6	800.8
77.5°	5520.4	5563.7	6523.0	8412.1	10013.8	9720.0	8193.4	5330.2	2056.0	678.3	454.3
80°	2769.2	2928.7	3676.7	4818.8	6696.3	6600.1	5171.7	2520.9	856.8	398.3	301.1
82.5°	1332.3	1445.3	1790.8	2349.7	3700.0	3612.3	2561.0	1377.7	544.1	232.4	177.5
85°	857.9	942.4	1140.0	1121.0	1521.4	1452.7	1150.6	1042.8	322.2	121.5	123.6
87.5°	566.3	620.2	743.8	594.8	553.6	500.8	508.2	587.4	63.4	46.5	16.9
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°	3286.9	3286.9	3286.9	3286.9	3286.9	3286.9	3286.9	3286.9	3286.9	3286.9	3286.9
2.5°	3250.9	3237.2	3191.8	3147.4	3105.1	3065.0	3038.6	3003.7	2980.5	2986.8	2996.3
5°	3169.6	3138.9	3058.6	2980.5	2906.5	2818.8	2748.0	2691.0	2647.7	2631.8	2628.6
7.5°	3084.0	3032.2	2917.1	2782.9	2657.2	2548.3	2422.6	2360.3	2287.4	2262.0	2253.6
10°	3032.2	2962.5	2800.9	2613.8	2424.7	2244.1	2107.8	1996.8	1896.5	1877.4	1867.9
12.5°	3017.4	2925.5	2707.9	2467.0	2215.5	1993.7	1791.9	1646.1	1548.9	1526.7	1493.9
15°	3009.0	2894.9	2621.2	2319.1	2000.0	1729.5	1517.2	1347.1	1258.3	1199.2	1200.2
17.5°	3001.6	2860.0	2524.0	2157.4	1814.1	1502.4	1267.8	1114.6	1033.3	1001.6	998.4
20°	2991.0	2818.8	2412.1	1987.3	1601.7	1295.3	1082.9	968.8	913.9	887.5	886.4
22.5°	2986.8	2778.7	2302.2	1814.1	1413.6	1135.8	960.4	880.1	845.2	827.3	827.3
25°	2997.4	2750.1	2187.0	1649.2	1246.7	999.5	875.9	820.9	800.8	791.3	788.2
27.5°	3030.1	2737.5	2072.9	1484.4	1093.5	906.5	818.8	780.8	766.0	758.6	759.6
30°	3092.5	2736.4	1960.9	1321.7	979.4	835.7	773.4	747.0	735.3	731.1	730.1
32.5°	3192.8	2759.6	1851.0	1187.5	883.3	776.5	731.1	712.1	706.8	703.6	702.6
35°	3362.9	2825.2	1742.2	1065.0	809.3	723.7	691.0	681.5	674.1	677.2	678.3
37.5°	3592.2	2938.2	1638.7	968.8	753.3	684.6	657.2	648.7	644.5	647.7	650.8
40°	3899.6	3100.9	1552.0	891.7	713.2	651.9	627.6	620.2	616.0	621.2	622.3
42.5°	4238.8	3289.0	1480.2	831.5	680.4	624.4	601.2	592.7	589.5	592.7	593.8
45°	4587.4	3507.7	1443.2	788.2	652.9	604.3	580.0	570.5	563.1	561.0	564.2
47.5°	4930.8	3697.8	1442.2	761.8	630.7	586.4	560.0	549.4	539.9	534.6	533.5
50°	5210.8	3848.9	1467.5	750.1	611.7	566.3	539.9	529.3	516.6	506.1	508.2
52.5°	5422.1	3947.2	1479.1	744.9	601.2	545.2	518.8	509.2	494.5	480.7	480.7
55°	5558.4	3970.4	1450.6	739.6	592.7	523.0	494.5	486.0	471.2	457.5	457.5
57.5°	5604.9	3898.6	1348.1	726.9	584.3	504.0	470.2	462.8	451.1	437.4	435.3
60°	5497.1	3655.6	1168.5	688.9	567.4	483.9	443.7	440.6	436.3	424.7	423.7
62.5°	5081.9	3140.0	973.1	639.2	538.8	462.8	419.4	424.7	427.9	421.6	420.5
65°	4390.9	2549.4	831.5	570.5	500.8	433.2	393.0	406.8	415.2	415.2	413.1
67.5°	3561.6	1957.7	700.5	511.4	453.2	393.0	363.4	374.0	380.3	378.2	383.5
70°	2531.4	1325.9	570.5	443.7	393.0	347.6	325.4	325.4	321.2	319.1	319.1
72.5°	1227.7	757.5	462.8	370.8	334.9	296.9	278.9	271.5	263.1	262.0	256.7
73°	1025.9	679.3	441.6	357.1	321.2	289.5	269.4	257.8	252.5	248.3	247.2
75°	624.4	515.6	368.7	301.1	273.6	249.3	231.4	220.8	215.5	212.4	211.3
77.5°	411.0	384.6	286.3	230.3	209.2	194.4	187.0	176.4	173.3	169.0	169.0
80°	306.4	293.7	205.0	162.7	150.0	137.3	135.2	133.1	124.7	119.4	117.3
82.5°	197.6	209.2	139.5	108.8	95.1	84.5	85.6	88.7	80.3	72.9	70.8
85°	140.5	151.1	84.5	49.7	40.1	34.9	39.1	34.9	35.9	28.5	23.2
87.5°	23.2	40.1	14.8	6.3	3.2	2.1	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)