

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: P452316

Luminaire Tested: **GALN-SA3B-730-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15333 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

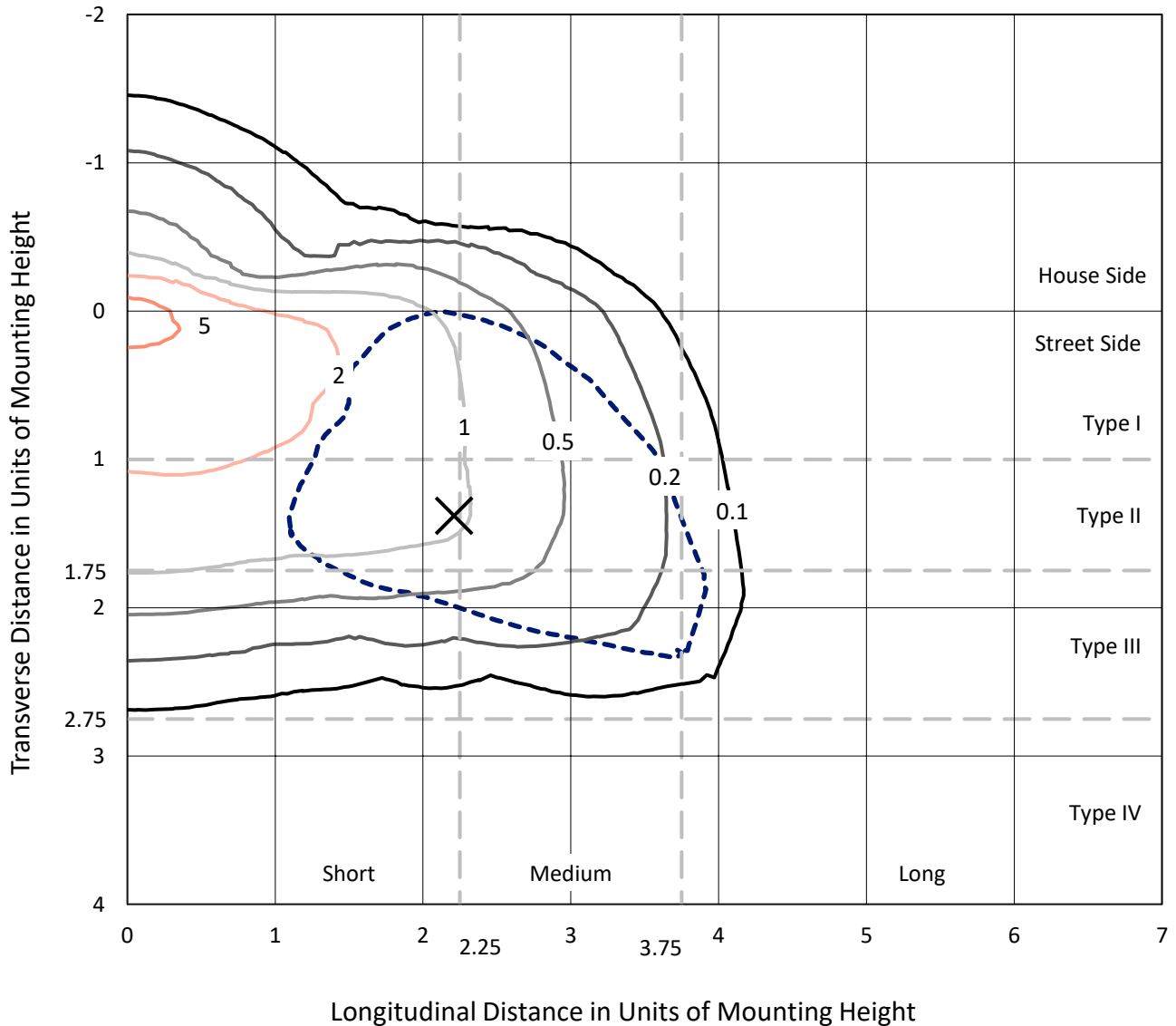
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

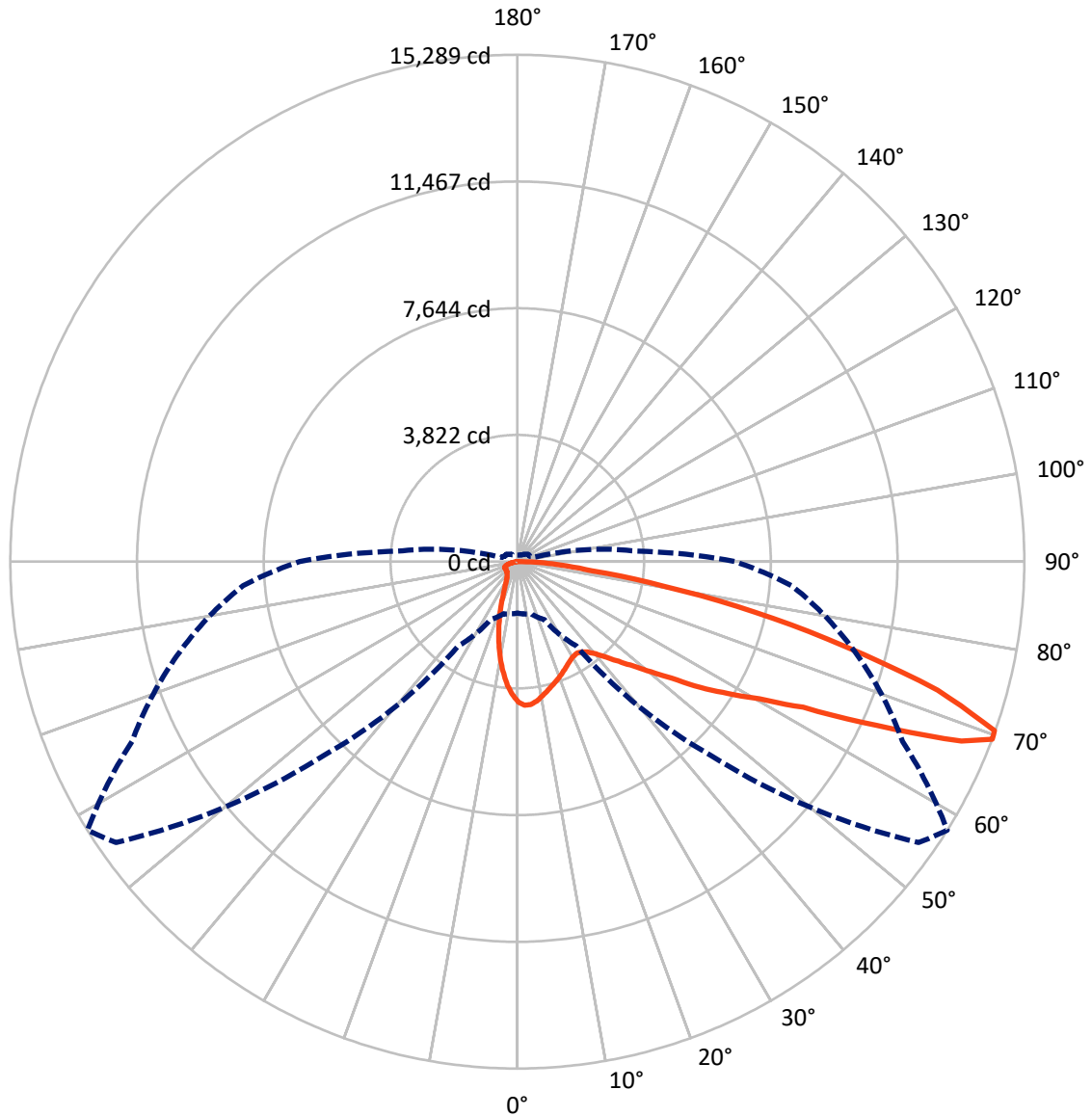
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2247.0	0.0	2247.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	13085.9	0.0	13085.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	15333.0	0.0	15333.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.8	2.3
10°-20°	790.1	5.2
20°-30°	1020.9	6.7
30°-40°	1325.9	8.6
40°-50°	1927.7	12.6
50°-60°	3076.0	20.1
60°-70°	4109.1	26.8
70°-80°	2368.7	15.4
80°-90°	354.8	2.3
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°	15333.0	100.0
0°-180°	15333.0	100.0

Coefficient of Utilization



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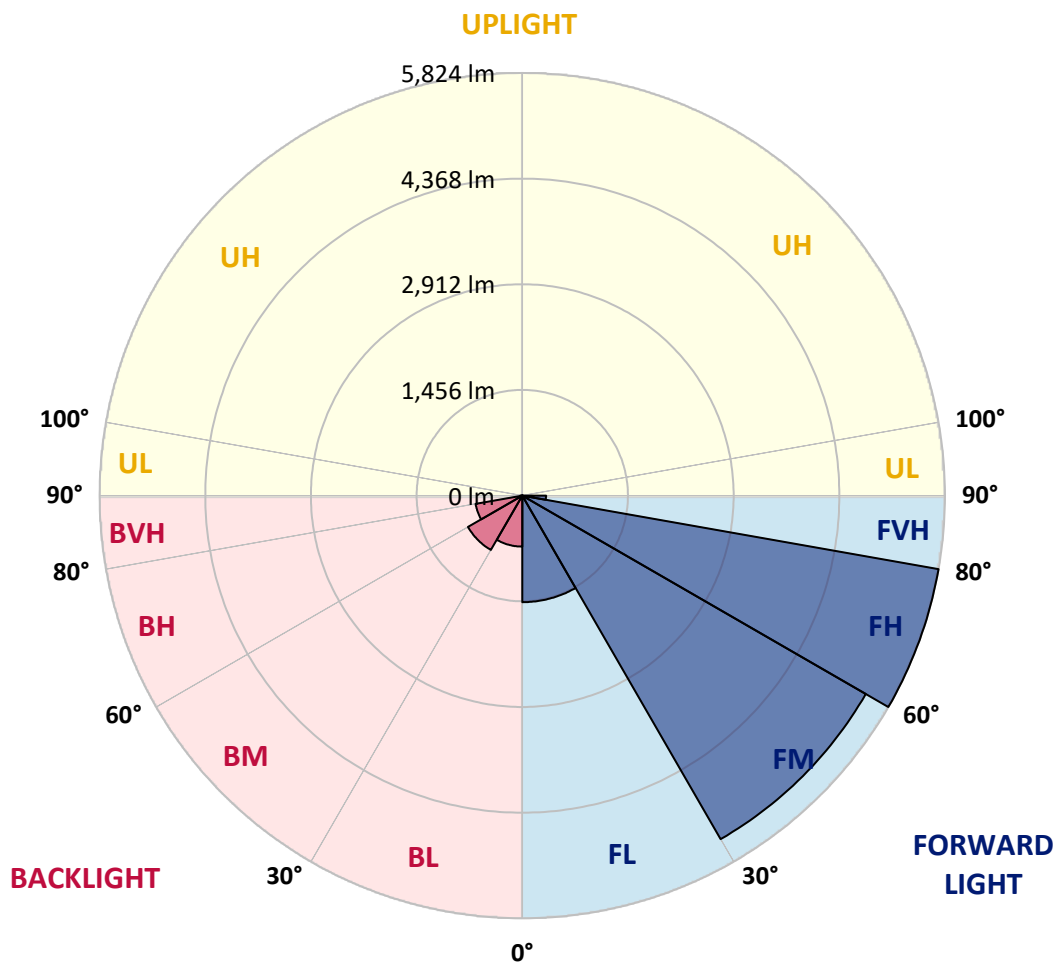
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1468.5	9.6			
FM	(30°-60°)	5465.4	35.6			
FH	(60°-80°)	5824.4	38.0			G3/7500
FVH	(80°-90°)	327.6	2.1			G3/500
BL	(0°-30°)	702.3	4.6	B2/1000		
BM	(30°-60°)	864.1	5.6	B1/1000		
BH	(60°-80°)	653.4	4.3	B2/1000		G2/1000
BVH	(80°-90°)	27.2	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4237.1	4237.1	4237.1	4237.1	4237.1	4237.1	4237.1	4237.1	4237.1	4237.1	4237.1
2.5°	4394.5	4406.5	4403.0	4398.8	4391.9	4373.1	4342.3	4337.2	4317.5	4275.6	4223.5
5°	4326.9	4337.2	4338.0	4344.0	4352.6	4349.2	4326.9	4324.4	4295.3	4238.9	4151.6
7.5°	4095.2	4108.9	4138.8	4172.2	4202.1	4230.3	4237.1	4241.4	4223.5	4158.5	4042.2
10°	3834.4	3848.1	3861.7	3911.3	3984.9	4055.0	4113.2	4120.8	4125.1	4065.3	3923.3
12.5°	3545.3	3573.6	3602.6	3676.2	3774.5	3884.8	3987.4	4003.7	4032.8	3987.4	3820.7
15°	3299.9	3329.0	3370.9	3436.7	3555.6	3714.7	3859.2	3885.7	3943.0	3919.9	3724.9
17.5°	3129.8	3140.0	3169.1	3244.3	3372.6	3540.2	3733.5	3786.5	3878.0	3872.0	3642.8
20°	2995.5	3008.3	3026.3	3072.5	3205.9	3382.9	3616.3	3684.7	3808.7	3829.2	3561.6
22.5°	2939.1	2948.5	2945.9	2970.7	3061.3	3239.2	3497.5	3578.7	3747.2	3800.2	3486.3
25°	2942.5	2951.0	2938.2	2932.2	2986.1	3112.7	3373.5	3476.9	3697.6	3780.5	3417.9
27.5°	2999.8	3005.8	2981.8	2957.9	2962.2	3034.0	3270.9	3385.4	3655.7	3789.1	3360.6
30°	3076.7	3087.9	3072.5	3043.4	3011.7	3015.2	3205.0	3317.9	3636.0	3819.0	3333.3
32.5°	3175.9	3186.2	3179.4	3156.3	3115.2	3069.9	3188.8	3293.1	3637.7	3879.7	3327.3
35°	3280.3	3300.8	3311.9	3310.2	3276.8	3198.2	3252.9	3339.3	3678.7	3981.5	3362.4
37.5°	3398.3	3415.4	3463.3	3494.0	3463.3	3371.8	3397.4	3457.3	3769.4	4128.5	3439.3
40°	3512.9	3538.5	3608.6	3704.4	3692.4	3612.0	3618.0	3657.4	3929.3	4347.5	3589.8
42.5°	3632.6	3663.4	3785.6	3927.6	3955.8	3893.4	3909.6	3944.7	4156.8	4651.0	3848.1
45°	3786.5	3823.3	3973.8	4150.8	4261.9	4223.5	4269.6	4286.7	4461.2	5046.1	4188.4
47.5°	3984.9	4027.6	4213.2	4433.8	4591.2	4626.2	4706.6	4696.3	4838.3	5513.8	4629.6
50°	4319.2	4343.2	4518.5	4743.4	4959.7	5117.9	5205.1	5221.4	5306.0	5968.8	5123.1
52.5°	4716.9	4738.2	4864.8	5061.5	5332.6	5667.8	5883.3	5830.2	5850.8	6522.9	5700.3
55°	5164.1	5200.0	5280.4	5411.2	5762.7	6256.1	6688.8	6701.6	6474.2	7053.1	6253.5
57.5°	5510.4	5571.1	5708.8	5895.2	6340.8	6910.3	7491.7	7500.3	7209.6	7619.2	6864.1
60°	5336.0	5407.8	5722.5	6176.6	7099.2	8051.9	8451.2	8402.5	7925.3	8263.9	7608.9
62.5°	4583.5	4596.3	5053.8	5763.5	7332.7	9579.1	9879.3	9673.2	8880.5	9081.4	8365.7
65°	2966.4	3050.2	3412.8	4407.3	6565.6	10426.5	12381.4	11905.0	10219.6	10009.2	8999.3
67.5°	1872.7	1851.3	2001.8	2516.6	4515.9	9680.0	14516.6	14441.3	11970.9	10595.0	8848.0
69°	1552.9	1576.9	1628.2	1929.2	3107.5	8264.8	14768.9	15288.8	12820.0	10548.8	8298.1
70°	1408.4	1419.5	1473.4	1710.2	2397.8	6922.2	14355.0	15265.7	13153.5	10355.6	7899.6
72.5°	1117.6	1116.8	1209.1	1422.9	1792.3	3951.5	11787.0	13253.6	12780.7	9456.0	6527.2
75°	849.1	862.8	964.6	1204.0	1651.2	2159.2	8225.4	10206.8	10207.6	7468.7	4073.0
77.5°	612.3	620.8	739.7	1010.8	1555.5	1750.4	5478.8	7320.7	6882.0	3422.2	1280.1
80°	401.1	406.2	496.8	800.4	1402.4	1651.2	3248.6	4480.9	3246.1	908.1	423.3
82.5°	219.8	245.4	303.6	518.2	1125.3	1525.5	1974.5	2267.8	1217.7	404.5	220.6
85°	110.3	117.2	171.0	302.7	735.4	1262.2	1375.0	1300.6	628.5	201.0	114.6
87.5°	32.5	41.0	71.0	117.2	298.4	657.6	765.3	686.7	242.0	72.7	23.9
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°	4237.1	4237.1	4237.1	4237.1	4237.1	4237.1	4237.1	4237.1	4237.1	4237.1	4237.1
2.5°	4202.1	4186.7	4118.3	4056.7	4000.3	3940.4	3890.0	3845.5	3849.8	3850.6	3805.3
5°	4106.3	4071.2	3941.3	3819.8	3717.2	3587.2	3476.1	3404.3	3368.3	3320.4	3337.6
7.5°	3976.3	3908.8	3728.3	3526.5	3337.6	3169.1	2986.1	2860.4	2780.0	2702.2	2712.5
10°	3842.1	3733.5	3471.0	3204.2	2959.6	2690.2	2456.8	2256.7	2107.9	2052.3	2015.5
12.5°	3704.4	3561.6	3228.1	2873.2	2535.4	2213.1	1882.1	1667.5	1503.3	1416.1	1427.2
15°	3578.7	3405.1	2975.0	2542.3	2103.6	1719.7	1389.6	1185.2	1070.6	1046.7	1060.4
17.5°	3462.4	3234.9	2738.1	2220.8	1708.5	1289.5	1044.1	928.7	882.5	869.7	868.8
20°	3342.7	3090.4	2472.2	1877.0	1331.4	999.6	856.8	803.0	794.4	799.5	800.4
22.5°	3221.3	2911.7	2198.5	1535.8	1060.4	817.5	749.1	734.6	741.4	753.4	755.1
25°	3109.2	2754.4	1935.1	1236.5	846.6	718.3	685.0	685.0	700.3	718.3	719.2
27.5°	3016.9	2602.1	1672.6	981.7	708.9	646.5	635.4	641.3	662.7	676.4	677.3
30°	2940.8	2460.2	1424.6	786.7	623.4	589.2	586.6	596.9	612.3	625.1	626.0
32.5°	2883.5	2335.3	1192.9	661.0	564.4	545.6	544.7	552.4	561.0	564.4	567.8
35°	2861.2	2231.9	980.8	581.5	525.0	513.1	513.1	512.2	515.6	517.4	519.1
37.5°	2879.2	2152.3	816.6	530.2	496.0	487.4	482.3	477.2	475.4	475.4	476.3
40°	2955.3	2110.4	694.4	496.8	475.4	462.6	453.2	447.2	441.2	443.0	444.7
42.5°	3116.9	2118.1	611.4	474.6	457.5	439.5	425.9	419.0	414.7	419.9	419.0
45°	3374.3	2195.1	558.4	459.2	439.5	416.4	403.6	396.8	396.8	404.5	407.0
47.5°	3734.3	2342.2	530.2	447.2	425.9	398.5	385.7	380.5	382.2	395.1	395.9
50°	4173.9	2597.9	525.0	441.2	419.0	385.7	371.1	366.0	370.3	384.0	385.7
52.5°	4658.7	2927.1	549.8	442.1	413.0	378.0	359.2	351.5	355.7	366.8	370.3
55°	5233.4	3339.3	614.0	445.5	404.5	373.7	350.6	333.5	338.6	346.3	347.2
57.5°	5820.0	3859.2	726.9	446.4	397.6	366.0	336.1	313.8	313.8	319.0	321.5
60°	6536.6	4425.3	875.6	447.2	398.5	354.9	316.4	291.6	288.2	290.7	291.6
62.5°	7248.0	4899.0	900.4	444.7	407.0	343.8	295.0	269.4	263.4	262.5	260.8
65°	7561.9	4810.9	738.0	432.7	416.4	336.9	277.9	248.0	237.7	234.3	234.3
67.5°	7050.5	4069.5	555.0	416.4	410.5	330.1	261.7	230.0	218.1	211.2	211.2
69°	6569.9	3619.7	498.5	405.3	395.1	319.0	251.4	220.6	206.1	198.4	195.8
70°	6198.8	3310.2	474.6	395.9	380.5	306.1	243.7	213.8	197.5	189.0	187.3
72.5°	4946.9	2597.0	415.6	360.0	324.1	257.4	216.3	192.4	177.0	167.6	165.0
75°	2851.0	1407.5	344.6	313.0	260.8	200.1	183.0	167.6	155.6	147.1	144.5
77.5°	877.4	543.9	249.7	247.1	191.5	154.8	146.2	140.2	131.7	122.3	120.6
80°	369.4	277.1	169.3	166.7	127.4	107.7	105.2	104.3	100.9	93.2	90.6
82.5°	202.7	156.5	118.0	102.6	77.0	62.4	65.0	65.8	63.3	55.6	50.5
85°	99.2	85.5	57.3	46.2	35.1	22.2	21.4	25.7	23.9	17.1	18.8
87.5°	19.7	23.9	15.4	6.8	3.4	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)