

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: P456272

Luminaire Tested: **GALN-SA7C-730-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456272
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32742 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

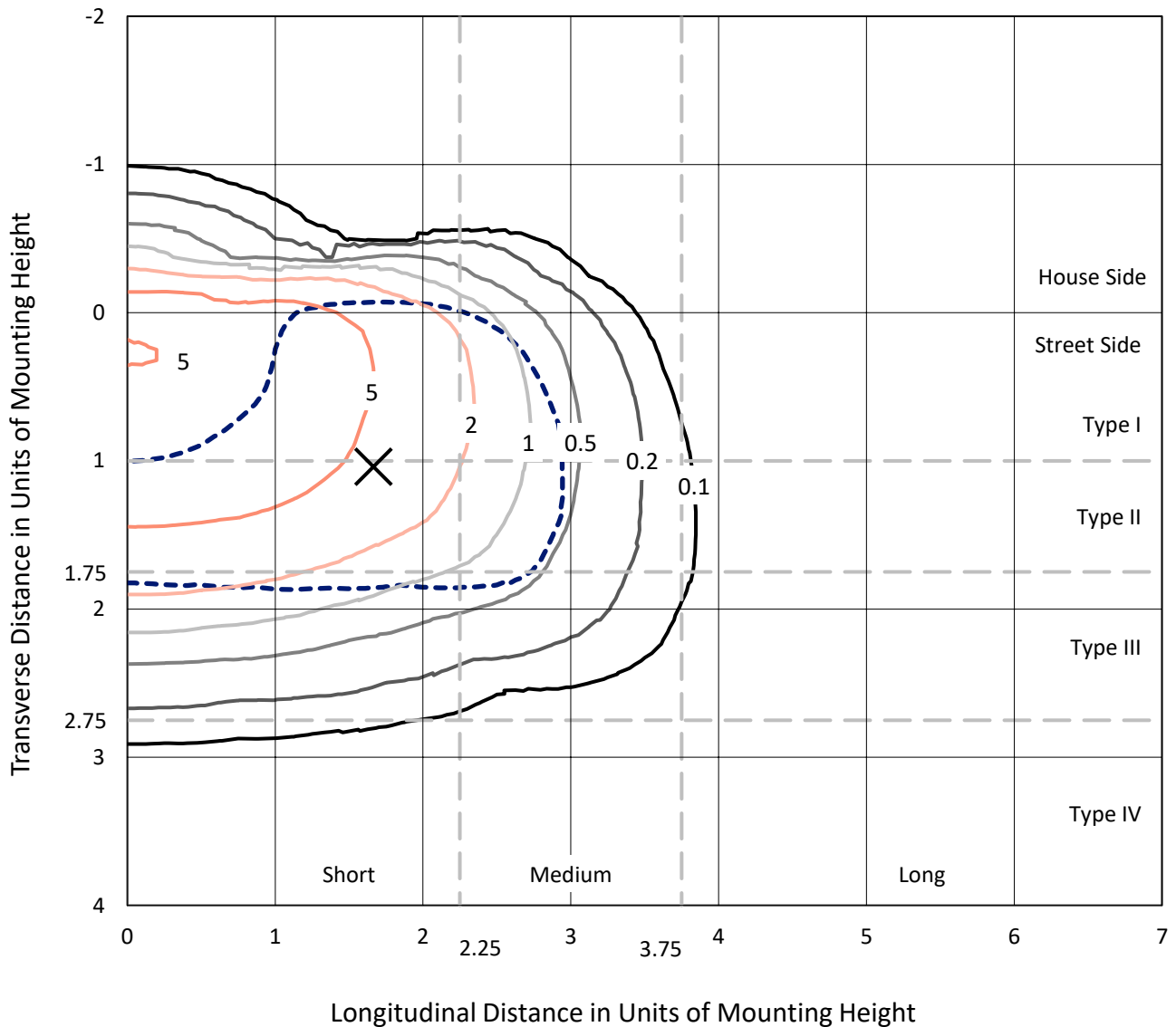
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

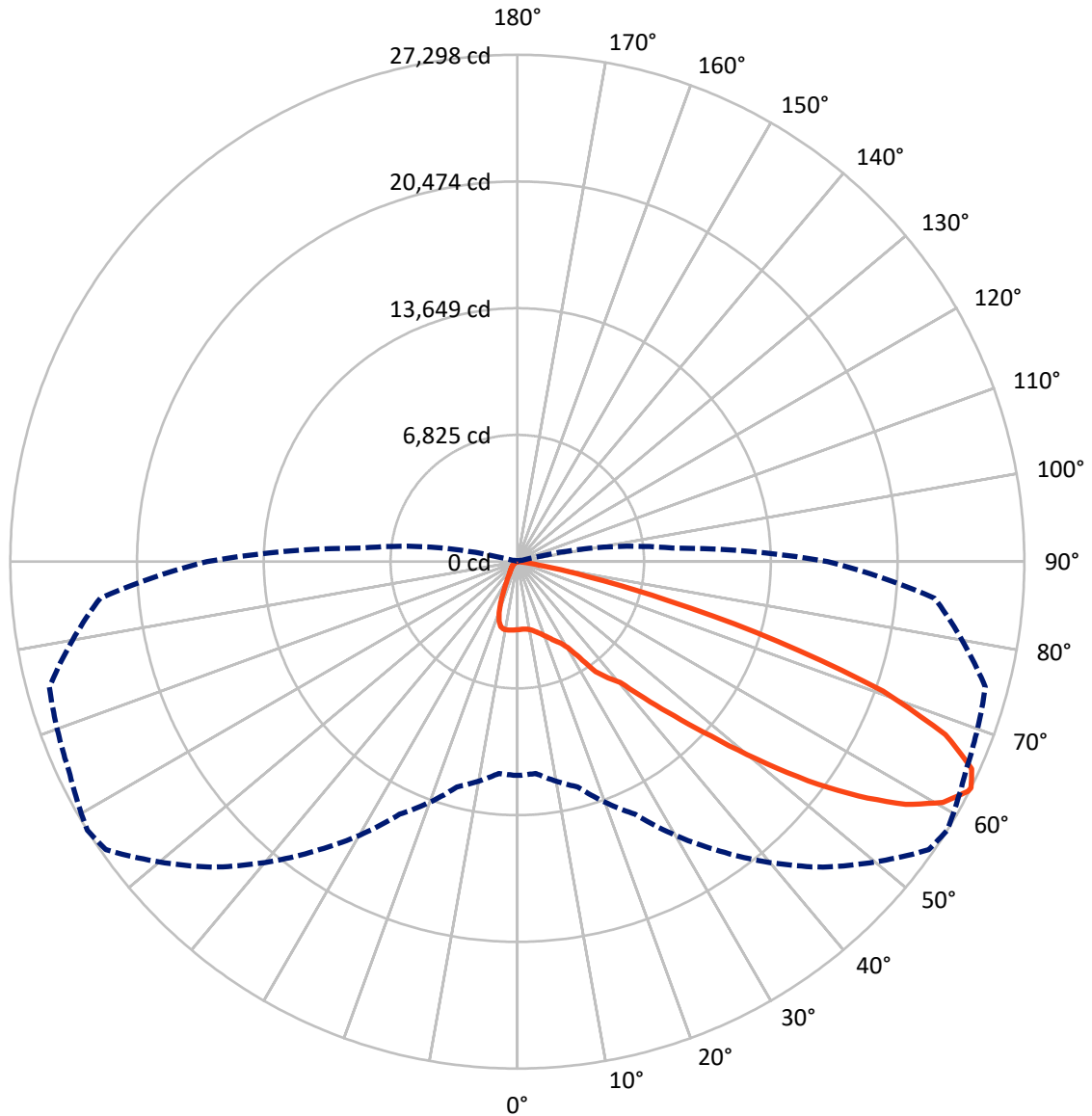
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3390.2	0.0	3390.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	29351.8	0.0	29351.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	32742.0	0.0	32742.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.1	1.0
10°-20°	934.6	2.9
20°-30°	1622.1	5.0
30°-40°	2980.7	9.1
40°-50°	5611.2	17.1
50°-60°	9597.5	29.3
60°-70°	9189.6	28.1
70°-80°	2343.4	7.2
80°-90°	119.8	0.4
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°	32742.0	100.0
0°-180°	32742.0	100.0

Coefficient of Utilization



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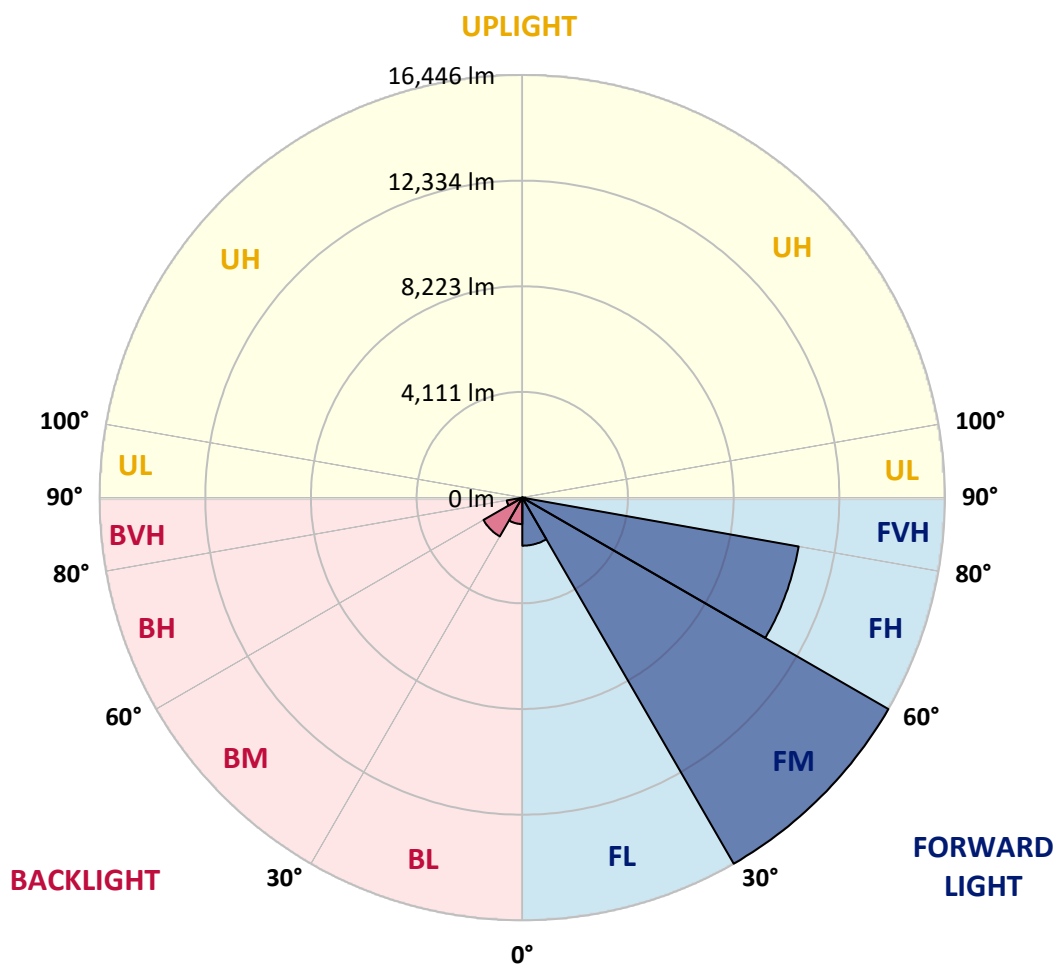
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1871.7	5.7			
FM (30°-60°)	16445.7	50.2			
FH (60°-80°)	10919.3	33.3			G4/12000
FVH (80°-90°)	115.2	0.4			G2/225
BL (0°-30°)	1028.2	3.1	B3/2500		
BM (30°-60°)	1743.7	5.3	B2/2500		
BH (60°-80°)	613.7	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3665.6	3665.6	3665.6	3665.6	3665.6	3665.6	3665.6	3665.6	3665.6	3665.6	3665.6
2.5°	3574.4	3586.7	3599.0	3604.0	3621.2	3638.5	3650.8	3648.3	3668.1	3677.9	3677.9
5°	3431.4	3431.4	3463.5	3493.0	3542.3	3591.6	3638.5	3648.3	3685.3	3719.8	3732.2
7.5°	3310.6	3318.0	3342.7	3396.9	3463.5	3549.7	3643.4	3665.6	3729.7	3806.1	3838.2
10°	3253.9	3258.9	3290.9	3347.6	3431.4	3549.7	3680.4	3722.3	3820.9	3941.7	3986.1
12.5°	3241.6	3249.0	3281.0	3345.1	3441.3	3584.2	3761.7	3806.1	3949.1	4104.4	4170.9
15°	3263.8	3268.7	3300.8	3369.8	3475.8	3645.9	3870.2	3931.8	4101.9	4281.9	4368.1
17.5°	3342.7	3337.7	3359.9	3416.6	3534.9	3722.3	4000.8	4074.8	4274.5	4521.0	4577.7
20°	3677.9	3645.9	3626.2	3576.9	3623.7	3830.8	4158.6	4267.1	4513.6	4765.0	4804.5
22.5°	4400.2	4328.7	4188.2	3995.9	3848.0	3978.7	4348.4	4474.1	4792.1	5038.7	5038.7
25°	5319.7	5228.5	5088.0	4668.9	4306.5	4222.7	4562.9	4720.7	5095.3	5344.3	5263.0
27.5°	6470.9	6399.4	6125.8	5637.7	5083.0	4649.2	4811.9	4957.3	5364.0	5664.8	5494.7
30°	7407.6	7373.1	7148.8	6712.4	6101.1	5467.6	5275.3	5371.4	5721.5	6069.1	5894.0
32.5°	8198.9	8198.9	7969.6	7562.9	6991.0	6429.0	6061.7	6130.7	6465.9	6867.7	6542.4
35°	9069.1	9039.5	8854.6	8467.6	7826.7	7331.2	7180.8	7274.5	7577.7	7876.0	7074.8
37.5°	9983.6	9973.8	9781.5	9406.8	8884.2	8260.5	7908.0	7932.7	8088.0	8270.4	7698.5
40°	10977.1	10991.9	10740.4	10508.7	10015.7	9377.2	8701.8	8546.5	8691.9	9207.1	8849.7
42.5°	12150.4	12115.9	12007.5	11691.9	11295.1	10913.0	10102.0	10045.3	10173.4	10725.6	10338.6
45°	13513.6	13562.9	13375.6	13200.6	12934.3	12616.3	11938.4	11839.8	11980.4	12838.2	12288.5
47.5°	14879.3	14832.5	14953.3	14921.2	15064.2	14827.5	14228.5	14026.4	14364.1	15177.6	14369.0
50°	15919.6	15971.3	16222.8	16590.1	17203.9	17337.0	16762.6	16693.6	16844.0	17366.6	16230.2
52.5°	16595.0	16767.6	17162.0	18106.1	19212.9	20073.3	19636.9	19600.0	19538.3	19678.8	18010.0
55°	17036.3	17211.3	17726.5	19116.8	21022.3	22420.0	22442.2	22284.4	21877.7	21776.6	19673.9
57.5°	16765.1	16799.6	17534.2	19392.9	22025.6	24093.8	24818.6	24660.8	23908.9	23526.8	21143.1
60°	15069.1	15140.6	16163.6	18347.7	21589.3	24641.1	26393.8	26322.3	25498.9	25067.5	22286.9
62.5°	12064.2	12271.2	13323.8	15759.3	19560.5	23719.1	27032.2	27234.3	26593.4	25999.3	22646.8
63°	11512.0	11445.4	12557.2	15005.0	19023.1	23263.1	27042.1	27298.4	26642.7	26088.1	22548.2
65°	8521.8	8721.5	9443.8	11832.4	15830.8	21140.6	26433.2	26886.8	26460.3	25696.1	21456.2
67.5°	4784.7	4774.9	5573.6	7742.9	11080.6	16582.7	23901.5	24860.5	24771.7	23058.5	17785.6
70°	2341.8	2378.8	2706.7	4013.2	6426.5	11440.5	19861.3	20896.6	20928.6	18111.0	12298.3
72.5°	1060.0	1077.2	1311.4	1954.8	3303.2	6091.2	13686.2	14674.7	14492.3	11541.6	6791.3
75°	559.6	596.6	722.3	983.6	1592.5	2511.9	7444.6	8401.0	8018.9	5272.8	2499.6
77.5°	414.1	426.5	490.6	626.1	852.9	978.6	3212.0	3820.9	3579.3	1908.0	828.3
80°	303.2	313.1	364.8	443.7	537.4	497.9	1210.4	1387.8	1244.9	648.3	253.9
82.5°	184.9	187.3	266.2	330.3	337.7	278.6	399.3	428.9	448.6	364.8	138.0
85°	66.6	83.8	180.0	239.1	199.7	140.5	167.6	184.9	202.1	231.7	81.3
87.5°	7.4	9.9	86.3	115.9	56.7	51.8	61.6	69.0	74.0	86.3	39.4
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°	3665.6	3665.6	3665.6	3665.6	3665.6	3665.6	3665.6	3665.6	3665.6	3665.6	3665.6
2.5°	3687.8	3697.6	3690.2	3677.9	3675.5	3668.1	3653.3	3653.3	3653.3	3658.2	3653.3
5°	3742.0	3749.4	3732.2	3707.5	3680.4	3645.9	3608.9	3586.7	3584.2	3579.3	3567.0
7.5°	3845.5	3855.4	3816.0	3756.8	3682.8	3599.0	3520.2	3446.2	3411.7	3384.6	3384.6
10°	3995.9	4005.8	3926.9	3820.9	3673.0	3502.9	3315.6	3145.5	3012.3	2950.7	2935.9
12.5°	4175.9	4180.8	4050.1	3865.3	3621.2	3293.4	2894.0	2521.8	2263.0	2144.6	2132.3
15°	4373.1	4338.6	4166.0	3882.5	3473.3	2862.0	2171.7	1715.7	1447.0	1368.1	1397.7
17.5°	4572.7	4508.7	4254.8	3855.4	3140.5	2171.7	1459.3	1170.9	1087.1	1064.9	1064.9
20°	4760.1	4671.4	4318.8	3737.1	2563.7	1496.3	1082.2	1013.2	998.4	983.6	986.0
22.5°	4947.4	4811.9	4375.5	3473.3	1910.4	1069.9	968.8	946.6	926.9	907.2	904.7
25°	5129.9	4942.5	4397.7	2985.2	1301.6	919.5	885.0	855.4	815.9	793.8	788.8
27.5°	5319.7	5100.3	4382.9	2369.0	949.1	823.3	788.8	746.9	700.1	660.6	660.6
30°	5684.5	5401.0	4331.2	1703.4	798.7	724.7	680.4	613.8	562.0	522.6	520.1
32.5°	6182.5	5793.0	4153.7	1198.0	709.9	638.5	571.9	497.9	443.7	414.1	414.1
35°	6626.2	6187.4	3820.9	882.5	638.5	554.6	473.3	401.8	359.9	340.2	332.8
37.5°	7301.6	6764.2	3362.4	717.3	569.4	480.7	396.9	330.3	295.8	281.0	281.0
40°	8314.8	7469.2	2800.3	628.6	502.9	409.2	330.3	278.6	251.4	234.2	234.2
42.5°	9572.0	8332.0	2230.9	564.5	441.3	352.5	276.1	236.6	212.0	199.7	197.2
45°	11154.5	9241.6	1718.2	505.3	391.9	300.7	234.2	199.7	175.0	167.6	170.1
47.5°	12806.2	10042.8	1331.2	453.6	340.2	253.9	199.7	172.6	155.3	145.4	145.4
50°	14216.2	10595.0	1010.7	394.4	300.7	214.5	175.0	155.3	140.5	135.6	133.1
52.5°	15394.5	10755.2	774.0	342.6	263.8	184.9	155.3	140.5	128.2	120.8	120.8
55°	16397.8	10614.7	606.4	288.4	221.9	160.2	138.0	125.7	110.9	103.5	101.1
57.5°	16984.5	10163.6	463.4	239.1	180.0	133.1	120.8	106.0	88.7	76.4	76.4
60°	17280.3	9507.9	355.0	197.2	138.0	106.0	98.6	78.9	61.6	51.8	49.3
62.5°	16925.3	8637.7	268.7	155.3	103.5	78.9	66.6	56.7	39.4	29.6	29.6
63°	16705.9	8386.2	258.8	147.9	96.1	74.0	61.6	51.8	34.5	27.1	24.7
65°	15229.3	7289.3	212.0	118.3	76.4	51.8	41.9	37.0	24.7	12.3	9.9
67.5°	12093.7	5576.0	167.6	88.7	54.2	37.0	24.7	22.2	7.4	0.0	0.0
70°	8176.7	3601.5	130.6	64.1	37.0	22.2	12.3	9.9	2.5	0.0	0.0
72.5°	4264.6	1846.4	101.1	46.8	22.2	14.8	7.4	2.5	0.0	0.0	0.0
75°	1508.6	628.6	74.0	29.6	14.8	7.4	2.5	0.0	0.0	0.0	0.0
77.5°	456.0	234.2	46.8	22.2	9.9	4.9	0.0	0.0	0.0	0.0	0.0
80°	160.2	86.3	27.1	14.8	7.4	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	78.9	41.9	17.3	12.3	7.4	2.5	0.0	0.0	0.0	0.0	0.0
85°	44.4	27.1	14.8	12.3	7.4	4.9	0.0	0.0	0.0	0.0	0.0
87.5°	32.0	19.7	14.8	12.3	9.9	4.9	2.5	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)