

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: P457697

Luminaire Tested: **GALN-SA9A-740-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29853 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

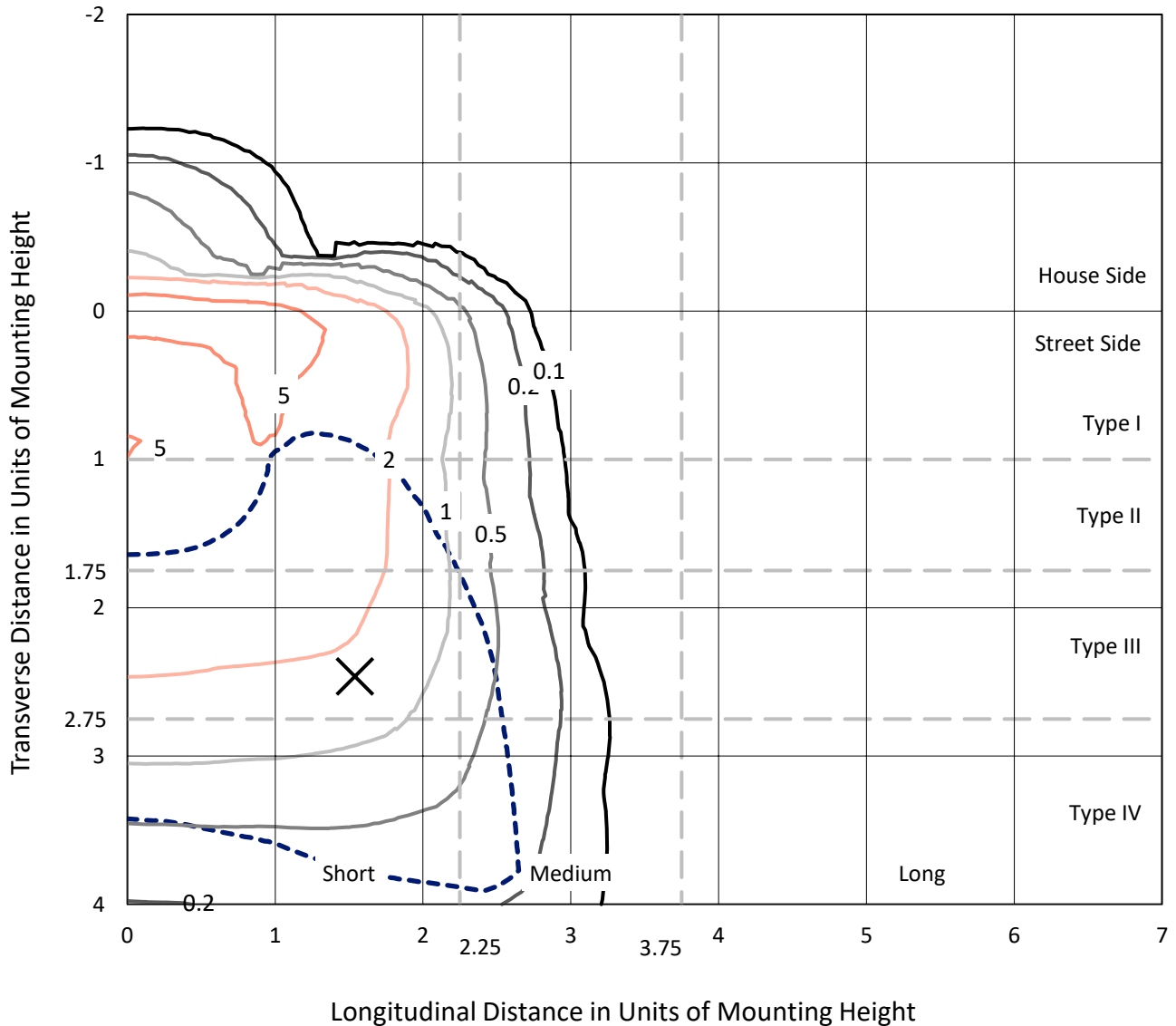
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

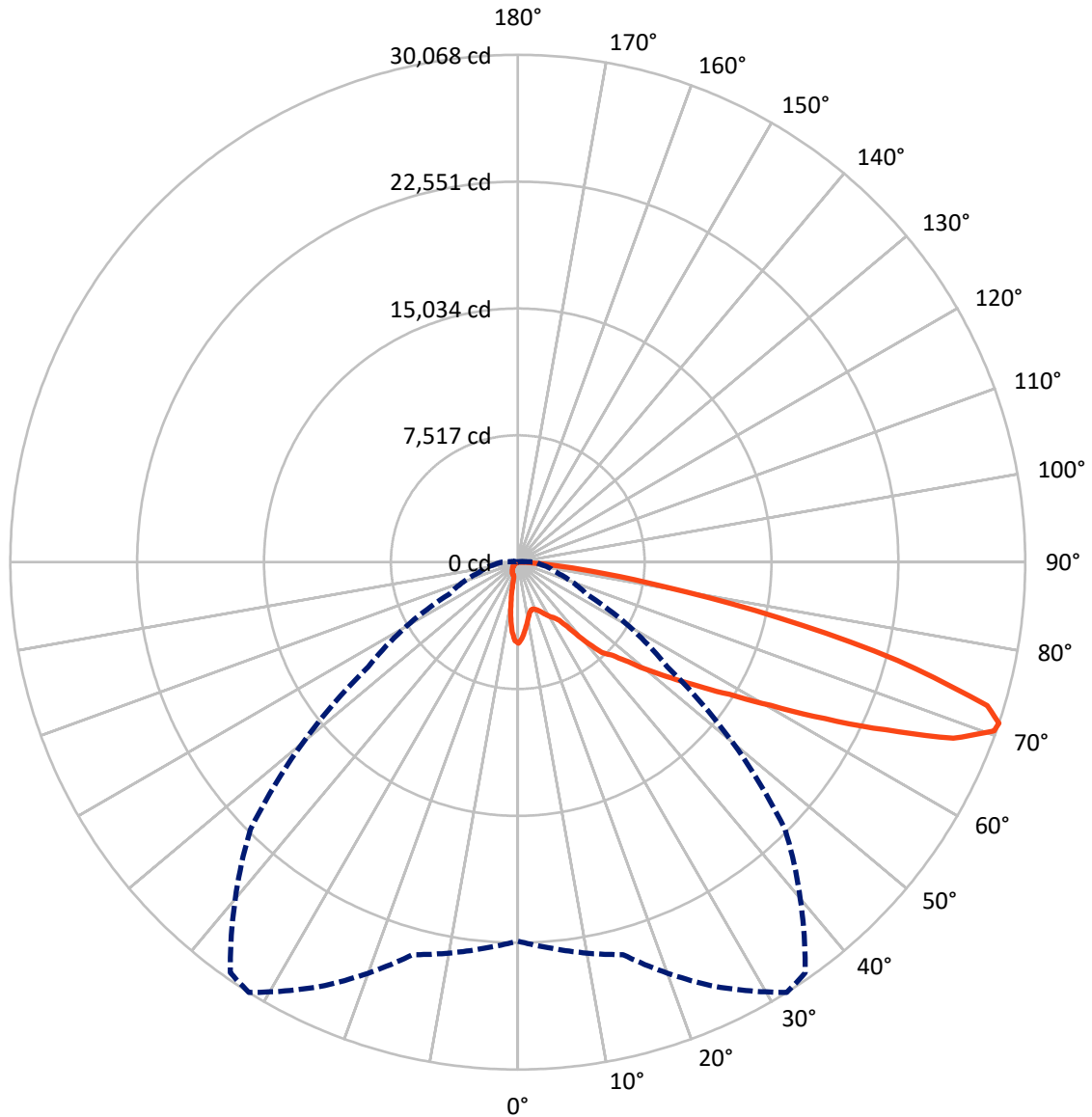
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2500.5	0.0	2500.5
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	27352.5	0.0	27352.5
	% Fixture	91.6	0.0	91.6
Total	Lumens	29853.0	0.0	29853.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.4	1.3
10°-20°	847.2	2.8
20°-30°	1318.0	4.4
30°-40°	2195.8	7.4
40°-50°	4084.6	13.7
50°-60°	6558.0	22.0
60°-70°	8820.8	29.5
70°-80°	5233.5	17.5
80°-90°	404.5	1.4
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°	29853.0	100.0
0°-180°	29853.0	100.0



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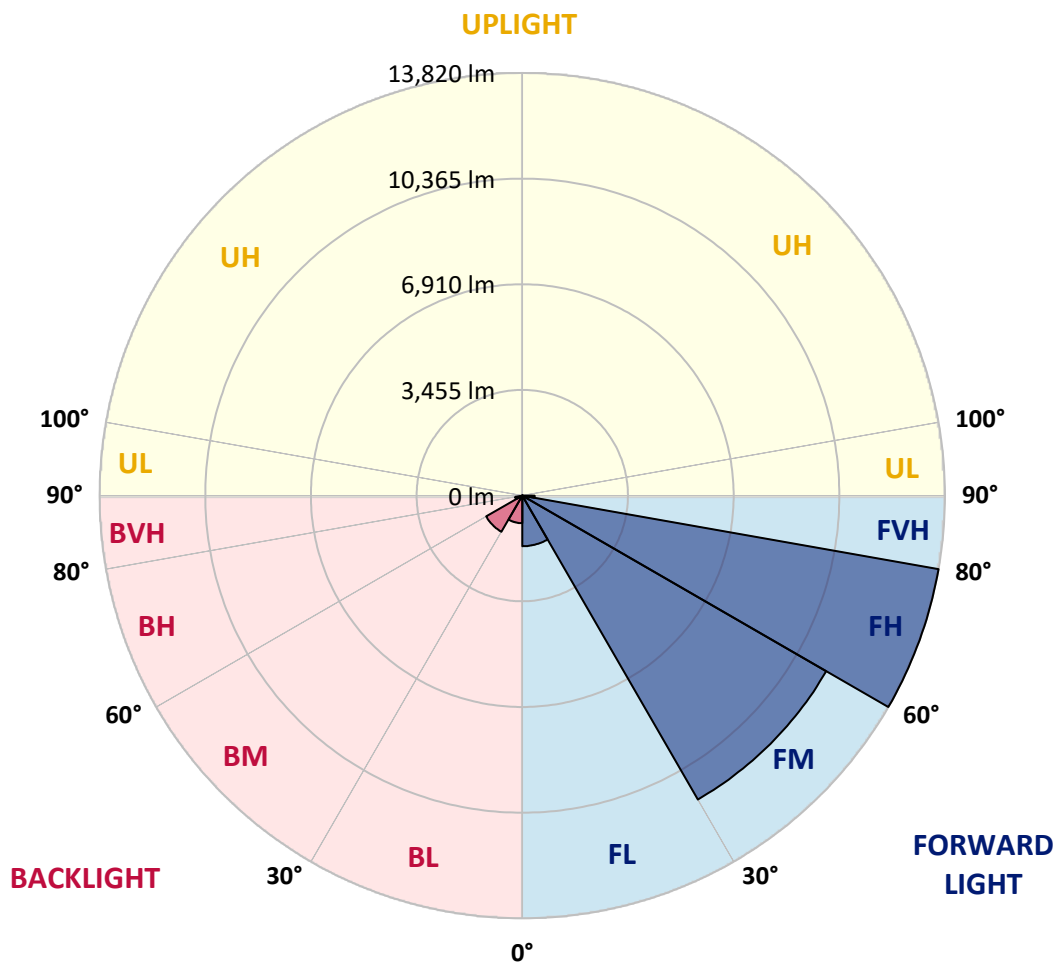
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1654.7	5.5			
FM	(30°-60°)	11474.4	38.4			
FH	(60°-80°)	13820.5	46.3			G5
FVH	(80°-90°)	403.0	1.3			G3/500
BL	(0°-30°)	901.0	3.0	B2/1000		
BM	(30°-60°)	1364.1	4.6	B2/2500		
BH	(60°-80°)	233.9	0.8	B1/500		G1/500
BVH	(80°-90°)	1.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	4800.8	4800.8	4800.8	4800.8	4800.8	4800.8	4800.8	4800.8	4800.8	4800.8	4800.8
2.5°	4452.5	4498.3	4491.5	4507.5	4546.5	4562.5	4606.0	4654.2	4720.6	4766.5	4796.2
5°	3987.3	4021.7	4026.3	4106.5	4145.4	4189.0	4317.3	4457.1	4612.9	4736.7	4819.2
7.5°	3490.1	3508.4	3545.1	3650.5	3749.0	3792.5	3987.3	4230.2	4475.4	4706.9	4855.8
10°	3079.9	3100.5	3166.9	3279.2	3370.9	3428.2	3698.6	4003.4	4347.1	4690.8	4908.5
12.5°	2846.1	2857.6	2882.8	2983.6	3100.5	3162.4	3453.4	3801.7	4244.0	4697.7	4997.9
15°	2830.1	2825.5	2795.7	2837.0	2942.4	3006.5	3290.7	3664.2	4152.3	4720.6	5103.3
17.5°	2914.9	2903.4	2832.4	2832.4	2919.5	2972.2	3221.9	3590.9	4106.5	4773.3	5252.3
20°	3045.5	3027.2	2910.3	2901.1	2985.9	3040.9	3263.2	3595.5	4115.7	4871.9	5451.6
22.5°	3210.5	3189.9	3013.4	3018.0	3109.7	3164.7	3382.3	3678.0	4172.9	4993.3	5664.7
25°	3425.9	3403.0	3194.4	3185.3	3281.5	3329.6	3558.8	3824.6	4253.1	5144.6	5944.3
27.5°	3712.3	3664.2	3414.4	3400.7	3503.8	3565.7	3771.9	4021.7	4395.2	5353.1	6320.1
30°	3948.4	3895.7	3657.3	3620.7	3730.7	3778.8	3991.9	4287.5	4674.8	5717.5	6840.3
32.5°	4257.7	4179.8	3900.2	3804.0	3920.9	3982.7	4310.4	4782.5	5089.6	6102.4	7459.0
35°	4954.4	4906.2	4564.8	4227.9	4221.1	4299.0	4780.2	5282.1	5515.8	6702.8	8302.3
37.5°	5951.2	5916.8	5554.8	5103.3	4972.7	4936.0	5350.8	5832.0	6196.4	7527.8	9283.1
40°	7108.4	7028.2	6696.0	6313.3	6143.7	6036.0	6024.5	6650.1	7085.5	8648.4	10305.2
42.5°	7938.0	7791.3	7388.0	7360.5	7323.8	7211.6	6886.2	7846.3	8233.6	9853.7	11398.2
45°	8808.8	8586.5	7986.1	7883.0	7869.2	7862.4	8187.8	9262.5	9484.8	11159.9	12521.1
47.5°	9484.8	9308.3	8815.7	8769.8	8827.1	8982.9	9908.7	10765.8	10719.9	12324.0	13462.9
50°	10385.4	10252.5	9704.8	9791.9	10087.5	10341.8	11849.7	12404.2	11735.1	13240.7	14148.1
52.5°	11448.7	11203.5	10694.7	10930.8	11384.5	11808.4	13909.8	13838.8	12447.8	13930.4	14659.1
55°	12369.9	12195.7	12021.6	12266.7	12945.1	13474.4	15770.6	14913.5	12965.7	14485.0	14883.7
57.5°	13928.1	13886.9	13708.1	13957.9	14780.6	15330.6	17436.5	15747.6	13298.0	14773.7	14620.2
60°	16233.4	16167.0	15834.7	16153.2	17225.7	18089.6	18971.9	16497.0	13373.6	14661.4	13861.7
62.5°	19006.2	18779.4	18495.2	18965.0	20436.2	20816.6	20417.8	16941.5	13091.7	13767.7	12033.0
65°	21595.7	21362.0	21368.8	22358.8	23960.6	24219.6	22104.4	16875.1	12266.7	11528.9	8875.2
67.5°	23577.9	23539.0	23818.5	25750.3	27844.8	27666.1	23612.3	15880.5	9821.6	7472.8	4716.0
70°	23678.7	23754.4	24556.4	27817.3	29943.9	29659.7	23484.0	12908.4	6123.1	3437.3	1858.5
71°	22459.6	22968.4	24077.5	27753.1	30067.6	29698.7	22402.3	10811.6	4491.5	2397.0	1340.6
72.5°	19139.2	19407.3	21804.2	26119.3	29089.1	28300.8	19659.3	7578.2	2875.9	1466.6	770.0
75°	10541.2	11201.2	14601.9	20491.2	23266.3	22574.2	12812.1	3600.0	1434.5	802.0	318.5
77.5°	5018.5	4890.2	7124.5	12186.5	15775.1	15738.5	6455.3	1599.5	836.4	543.1	160.4
80°	1434.5	1613.3	2727.0	5793.1	8758.4	8854.6	2479.5	772.3	579.8	423.9	82.5
82.5°	433.1	442.3	1001.4	2562.0	4356.3	4106.5	930.4	394.1	417.1	336.9	48.1
85°	75.6	94.0	295.6	902.9	1661.4	1260.4	233.7	187.9	275.0	222.3	27.5
87.5°	4.6	6.9	98.5	103.1	146.7	84.8	41.2	27.5	59.6	59.6	16.0
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°	4800.8	4800.8	4800.8	4800.8	4800.8	4800.8	4800.8	4800.8	4800.8	4800.8	4800.8
2.5°	4816.9	4830.6	4821.5	4800.8	4766.5	4725.2	4670.2	4624.4	4585.4	4564.8	4590.0
5°	4846.7	4865.0	4819.2	4716.0	4560.2	4390.6	4198.1	4049.2	3932.3	3895.7	3881.9
7.5°	4892.5	4903.9	4780.2	4551.0	4221.1	3820.0	3469.4	3173.8	2944.7	2875.9	2775.1
10°	4952.1	4945.2	4711.5	4285.2	3705.5	3102.8	2559.7	2156.4	1851.6	1741.6	1732.4
12.5°	5043.7	5007.1	4624.4	3923.2	3091.3	2303.0	1631.6	1276.4	1083.9	1019.7	1006.0
15°	5158.3	5071.2	4486.9	3499.2	2367.2	1487.2	1006.0	898.3	873.1	868.5	863.9
17.5°	5293.5	5156.0	4305.9	2979.0	1663.7	964.7	841.0	838.7	841.0	836.4	834.1
20°	5476.8	5245.4	4090.4	2362.6	1100.0	813.5	802.0	802.0	804.3	802.0	802.0
22.5°	5671.6	5350.8	3824.6	1803.5	829.5	772.3	770.0	774.5	779.1	776.8	776.8
25°	5912.2	5488.3	3474.0	1235.2	742.5	737.9	740.2	749.3	758.5	760.8	758.5
27.5°	6260.6	5657.9	3098.2	850.2	680.6	685.2	708.1	731.0	744.8	747.1	747.1
30°	6652.4	5845.8	2607.8	689.8	630.2	630.2	657.7	701.2	731.0	735.6	737.9
32.5°	7156.6	6063.5	2064.7	621.0	582.1	577.5	602.7	655.4	710.4	726.4	726.4
35°	7779.9	6320.1	1535.3	577.5	547.7	536.2	550.0	593.5	664.6	710.4	715.0
37.5°	8510.9	6563.0	1122.9	538.5	515.6	499.6	508.7	543.1	600.4	669.1	687.5
40°	9186.9	6778.4	838.7	506.4	483.5	472.1	478.9	495.0	543.1	607.3	618.7
42.5°	9924.8	6945.7	666.8	472.1	451.4	446.9	446.9	453.7	485.8	522.5	524.8
45°	10660.4	7005.3	559.1	430.8	417.1	421.6	419.4	414.8	428.5	423.9	423.9
47.5°	11185.1	6934.3	462.9	391.9	391.9	398.7	387.3	371.2	364.4	336.9	339.2
50°	11544.9	6675.3	380.4	346.0	364.4	373.5	350.6	325.4	300.2	270.4	263.5
52.5°	11693.9	6214.7	311.7	286.4	323.1	334.6	307.1	277.3	238.3	213.1	206.2
55°	11597.6	5646.4	258.9	233.7	272.7	286.4	258.9	224.6	181.0	153.5	149.0
57.5°	11173.7	4968.1	220.0	185.6	217.7	226.9	208.5	171.9	128.3	100.8	100.8
60°	10440.4	4266.9	178.7	146.7	162.7	176.5	158.1	123.7	87.1	61.9	57.3
62.5°	8953.1	3464.8	144.4	114.6	114.6	126.0	110.0	89.4	55.0	32.1	29.8
65°	6464.5	2376.4	114.6	84.8	82.5	82.5	68.7	59.6	32.1	13.7	9.2
67.5°	3513.0	1340.6	91.7	64.2	57.3	55.0	43.5	34.4	13.7	2.3	0.0
70°	1381.8	515.6	71.0	43.5	36.7	34.4	22.9	16.0	9.2	0.0	0.0
71°	937.3	355.2	61.9	36.7	29.8	25.2	18.3	13.7	6.9	0.0	0.0
72.5°	536.2	220.0	48.1	27.5	22.9	18.3	13.7	9.2	6.9	0.0	0.0
75°	233.7	112.3	29.8	20.6	16.0	11.5	9.2	6.9	2.3	0.0	0.0
77.5°	119.2	61.9	20.6	16.0	9.2	6.9	4.6	2.3	0.0	0.0	0.0
80°	66.5	32.1	13.7	9.2	6.9	4.6	2.3	2.3	0.0	0.0	0.0
82.5°	36.7	18.3	6.9	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.9	11.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.5	4.6	0.0	0.0	0.0	0.0	2.3	2.3	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)