

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: P456301

Luminaire Tested: **GALN-SA7C-740-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456301
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-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 35952 lumens
Efficiency: N/A
Efficacy: 95.4 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

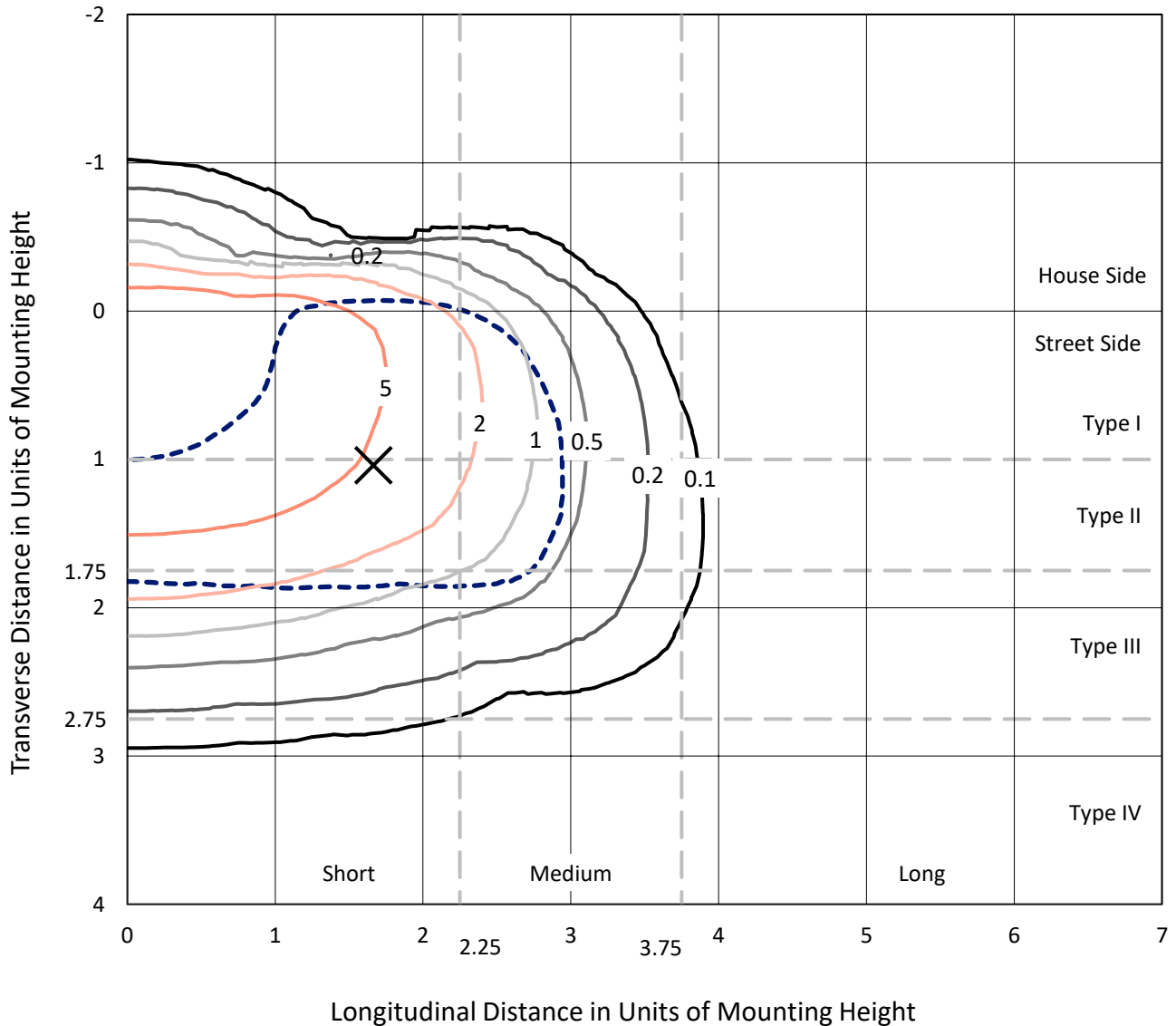
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

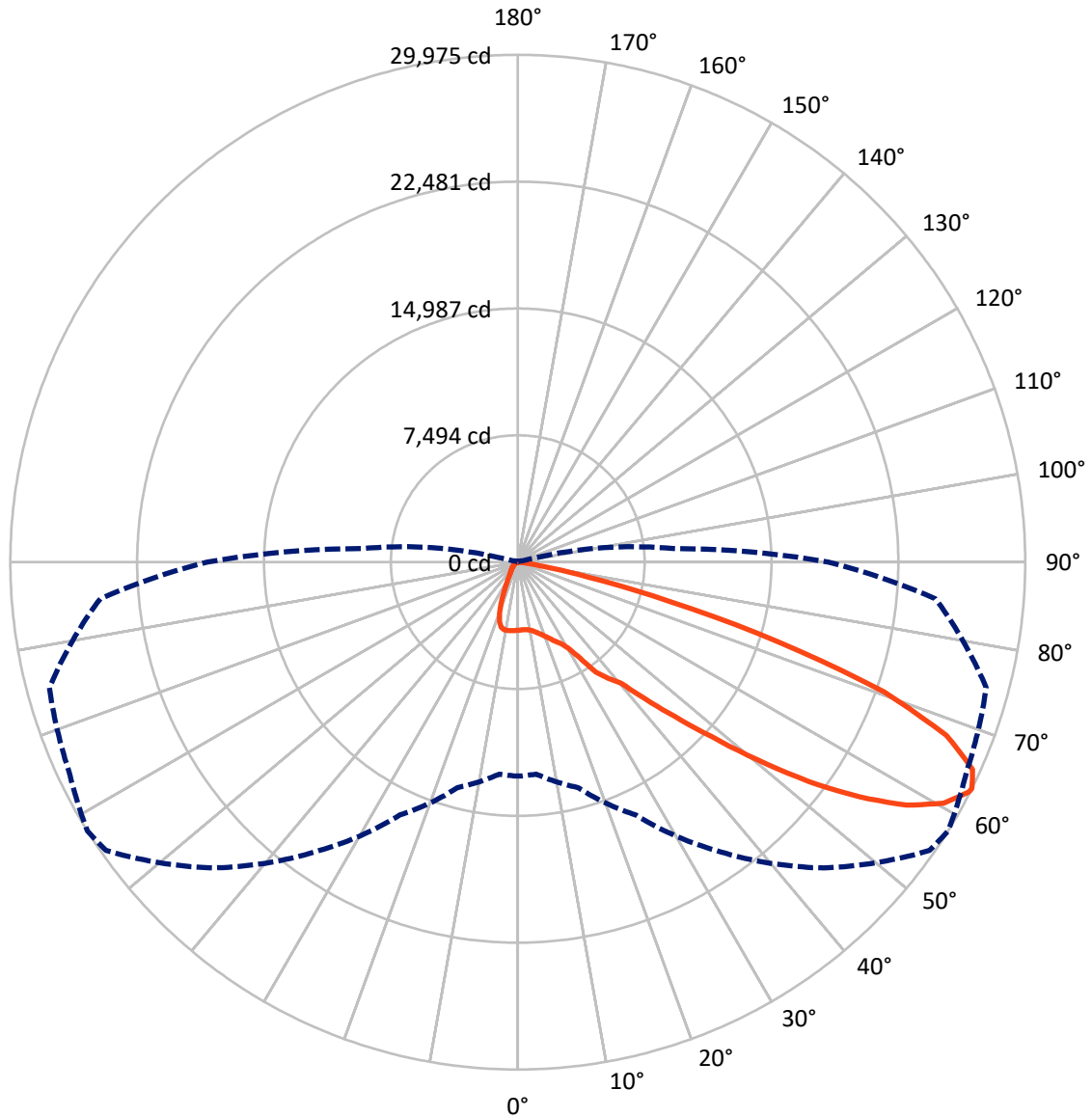
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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	3722.6	0.0	3722.6
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	32229.4	0.0	32229.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	35952.0	0.0	35952.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.8	1.0
10°-20°	1026.2	2.9
20°-30°	1781.1	5.0
30°-40°	3273.0	9.1
40°-50°	6161.3	17.1
50°-60°	10538.4	29.3
60°-70°	10090.5	28.1
70°-80°	2573.1	7.2
80°-90°	131.6	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°	35952.0	100.0
0°-180°	35952.0	100.0



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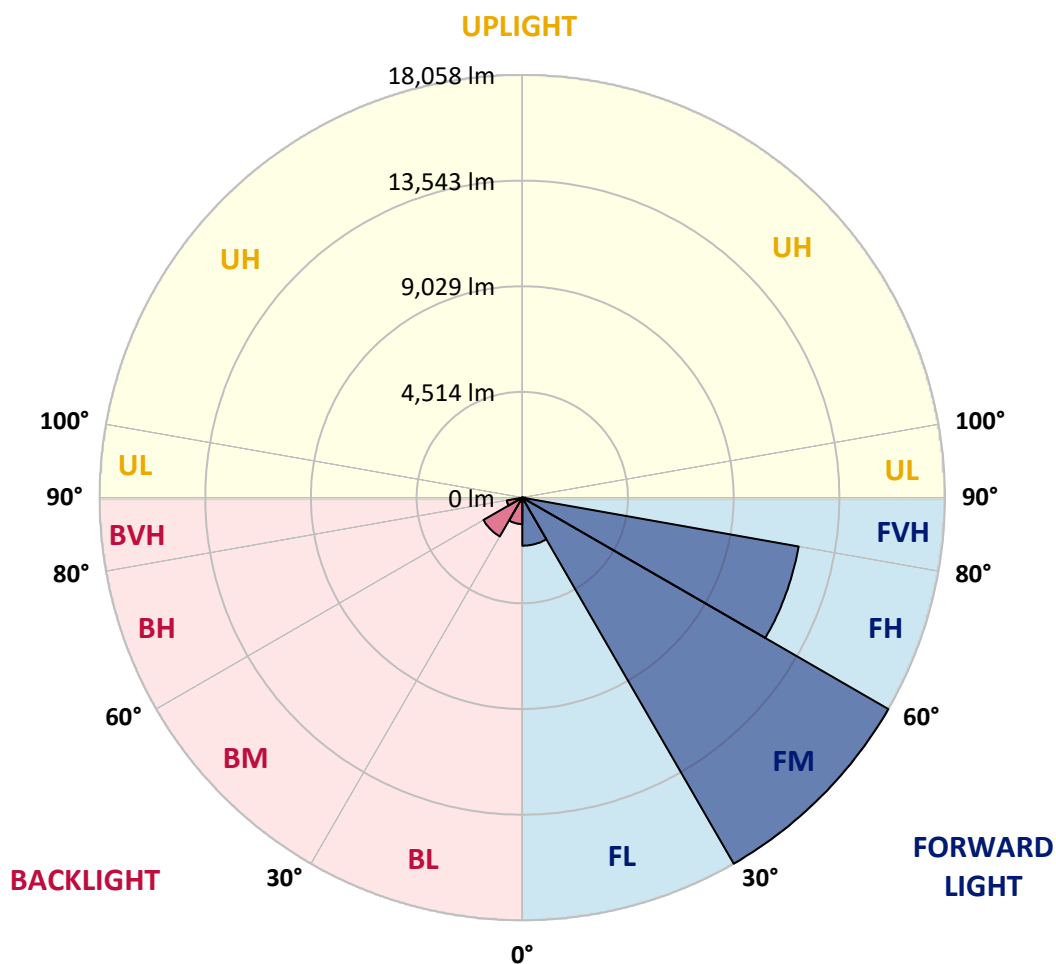
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2055.2	5.7			
FM (30°-60°)	18058.0	50.2			
FH (60°-80°)	11989.8	33.3			G4/12000
FVH (80°-90°)	126.5	0.4			G2/225
BL (0°-30°)	1129.0	3.1	B3/2500		
BM (30°-60°)	1914.7	5.3	B2/2500		
BH (60°-80°)	673.8	1.9	B2/1000		G2/1000
BVH (80°-90°)	5.1	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°	4025.0	4025.0	4025.0	4025.0	4025.0	4025.0	4025.0	4025.0	4025.0	4025.0	4025.0
2.5°	3924.8	3938.3	3951.9	3957.3	3976.2	3995.2	4008.7	4006.0	4027.7	4038.5	4038.5
5°	3767.8	3767.8	3803.0	3835.5	3889.6	3943.8	3995.2	4006.0	4046.6	4084.5	4098.0
7.5°	3635.2	3643.3	3670.4	3729.9	3803.0	3897.7	4000.6	4025.0	4095.3	4179.3	4214.4
10°	3572.9	3578.3	3613.5	3675.8	3767.8	3897.7	4041.2	4087.2	4195.5	4328.1	4376.8
12.5°	3559.4	3567.5	3602.7	3673.1	3778.6	3935.6	4130.5	4179.3	4336.2	4506.8	4579.9
15°	3583.8	3589.2	3624.4	3700.2	3816.5	4003.3	4249.6	4317.3	4504.1	4701.7	4796.4
17.5°	3670.4	3665.0	3689.3	3751.6	3881.5	4087.2	4393.1	4474.3	4693.5	4964.2	5026.5
20°	4038.5	4003.3	3981.7	3927.5	3979.0	4206.3	4566.3	4685.4	4956.1	5232.2	5275.5
22.5°	4831.6	4753.1	4598.8	4387.7	4225.3	4368.7	4774.7	4912.8	5262.0	5532.6	5532.6
25°	5841.2	5741.1	5586.8	5126.6	4728.7	4636.7	5010.2	5183.5	5594.9	5868.3	5779.0
27.5°	7105.3	7026.8	6726.3	6190.4	5581.4	5105.0	5283.6	5443.3	5889.9	6220.2	6033.4
30°	8133.8	8095.9	7849.6	7370.5	6699.3	6003.6	5792.5	5898.0	6282.4	6664.1	6471.9
32.5°	9002.7	9002.7	8751.0	8304.4	7676.4	7059.3	6655.9	6731.7	7099.9	7541.1	7183.8
35°	9958.2	9925.7	9722.7	9297.8	8594.0	8049.9	7884.8	7987.7	8320.6	8648.1	7768.4
37.5°	10962.4	10951.6	10740.5	10329.0	9755.2	9070.4	8683.3	8710.4	8880.9	9081.2	8453.2
40°	12053.2	12069.5	11793.4	11539.0	10997.6	10296.5	9554.9	9384.4	9544.1	10109.8	9717.3
42.5°	13341.7	13303.8	13184.7	12838.2	12402.4	11982.9	11092.3	11030.1	11170.8	11777.2	11352.2
45°	14838.5	14892.6	14686.9	14494.7	14202.4	13853.2	13108.9	13000.6	13154.9	14096.9	13493.2
47.5°	16338.1	16286.6	16419.3	16384.1	16541.1	16281.2	15623.5	15401.5	15772.3	16665.6	15777.8
50°	17480.3	17537.2	17813.2	18216.6	18890.5	19036.7	18406.0	18330.2	18495.4	19069.2	17821.4
52.5°	18222.0	18411.4	18844.5	19881.2	21096.6	22041.2	21562.1	21521.5	21453.9	21608.1	19775.7
55°	18706.5	18898.7	19464.4	20991.0	23083.3	24618.1	24642.4	24469.2	24022.6	23911.6	21602.7
57.5°	18408.7	18446.6	19253.2	21294.2	24185.0	26456.0	27251.8	27078.5	26253.0	25833.4	23216.0
60°	16546.5	16625.0	17748.3	20146.5	23705.9	27056.9	28981.4	28902.9	27998.8	27525.1	24471.9
62.5°	13246.9	13474.3	14630.1	17304.4	21478.2	26044.5	29682.4	29904.4	29200.6	28548.3	24867.1
63°	12640.6	12567.5	13788.3	16476.1	20888.1	25543.8	29693.3	29974.8	29254.8	28645.7	24758.8
65°	9357.3	9576.5	10369.6	12992.5	17382.9	23213.3	29024.7	29522.7	29054.5	28215.4	23559.7
67.5°	5253.8	5243.0	6120.0	8502.0	12166.9	18208.4	26244.8	27297.8	27200.3	25319.1	19529.3
70°	2571.4	2612.0	2972.0	4406.6	7056.5	12562.1	21808.4	22945.3	22980.5	19886.6	13504.1
72.5°	1163.9	1182.9	1440.0	2146.5	3627.1	6688.4	15028.0	16113.4	15913.1	12673.1	7457.1
75°	614.4	655.0	793.1	1080.0	1748.6	2758.2	8174.4	9224.7	8805.1	5789.8	2744.7
77.5°	454.7	468.3	538.6	687.5	936.5	1074.6	3526.9	4195.5	3930.2	2095.0	909.5
80°	332.9	343.8	400.6	487.2	590.1	546.8	1329.0	1523.9	1366.9	711.9	278.8
82.5°	203.0	205.7	292.3	362.7	370.8	305.9	438.5	471.0	492.6	400.6	151.6
85°	73.1	92.0	197.6	262.6	219.2	154.3	184.1	203.0	222.0	254.4	89.3
87.5°	8.1	10.8	94.7	127.2	62.3	56.8	67.7	75.8	81.2	94.7	43.3
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°	4025.0	4025.0	4025.0	4025.0	4025.0	4025.0	4025.0	4025.0	4025.0	4025.0	4025.0
2.5°	4049.3	4060.2	4052.0	4038.5	4035.8	4027.7	4011.4	4011.4	4011.4	4016.8	4011.4
5°	4108.9	4117.0	4098.0	4071.0	4041.2	4003.3	3962.7	3938.3	3935.6	3930.2	3916.7
7.5°	4222.6	4233.4	4190.1	4125.1	4043.9	3951.9	3865.3	3784.1	3746.2	3716.4	3716.4
10°	4387.7	4398.5	4311.9	4195.5	4033.1	3846.3	3640.6	3453.8	3307.7	3240.0	3223.8
12.5°	4585.3	4590.7	4447.2	4244.2	3976.2	3616.2	3177.7	2769.0	2484.8	2354.9	2341.4
15°	4801.8	4763.9	4574.4	4263.2	3813.8	3142.6	2384.7	1883.9	1588.9	1502.3	1534.7
17.5°	5021.1	4950.7	4671.9	4233.4	3448.4	2384.7	1602.4	1285.7	1193.7	1169.3	1169.3
20°	5226.8	5129.3	4742.3	4103.5	2815.0	1643.0	1188.3	1112.5	1096.2	1080.0	1082.7
22.5°	5432.5	5283.6	4804.5	3813.8	2097.7	1174.7	1063.8	1039.4	1017.7	996.1	993.4
25°	5632.8	5427.1	4828.9	3277.9	1429.2	1009.6	971.7	939.2	895.9	871.6	866.2
27.5°	5841.2	5600.3	4812.6	2601.2	1042.1	904.1	866.2	820.2	768.7	725.4	725.4
30°	6241.8	5930.5	4755.8	1870.4	877.0	795.8	747.1	674.0	617.1	573.8	571.1
32.5°	6788.6	6360.9	4560.9	1315.5	779.5	701.1	628.0	546.8	487.2	454.7	454.7
35°	7275.8	6794.0	4195.5	969.0	701.1	609.0	519.7	441.2	395.2	373.5	365.4
37.5°	8017.4	7427.4	3692.0	787.7	625.3	527.8	435.8	362.7	324.8	308.6	308.6
40°	9129.9	8201.5	3074.9	690.2	552.2	449.3	362.7	305.9	276.1	257.1	257.1
42.5°	10510.4	9148.9	2449.6	619.9	484.5	387.1	303.2	259.8	232.8	219.2	216.5
45°	12248.1	10147.7	1886.6	554.9	430.4	330.2	257.1	219.2	192.2	184.1	186.8
47.5°	14061.7	11027.4	1461.7	498.0	373.5	278.8	219.2	189.5	170.5	159.7	159.7
50°	15609.9	11633.7	1109.8	433.1	330.2	235.5	192.2	170.5	154.3	148.9	146.2
52.5°	16903.8	11809.6	849.9	376.2	289.6	203.0	170.5	154.3	140.8	132.6	132.6
55°	18005.4	11655.3	665.9	316.7	243.6	175.9	151.6	138.0	121.8	113.7	111.0
57.5°	18649.6	11160.0	508.9	262.6	197.6	146.2	132.6	116.4	97.4	83.9	83.9
60°	18974.5	10440.0	389.8	216.5	151.6	116.4	108.3	86.6	67.7	56.8	54.1
62.5°	18584.7	9484.5	295.0	170.5	113.7	86.6	73.1	62.3	43.3	32.5	32.5
63°	18343.8	9208.4	284.2	162.4	105.6	81.2	67.7	56.8	37.9	29.8	27.1
65°	16722.4	8003.9	232.8	129.9	83.9	56.8	46.0	40.6	27.1	13.5	10.8
67.5°	13279.4	6122.7	184.1	97.4	59.5	40.6	27.1	24.4	8.1	0.0	0.0
70°	8978.4	3954.6	143.5	70.4	40.6	24.4	13.5	10.8	2.7	0.0	0.0
72.5°	4682.7	2027.4	111.0	51.4	24.4	16.2	8.1	2.7	0.0	0.0	0.0
75°	1656.5	690.2	81.2	32.5	16.2	8.1	2.7	0.0	0.0	0.0	0.0
77.5°	500.8	257.1	51.4	24.4	10.8	5.4	0.0	0.0	0.0	0.0	0.0
80°	175.9	94.7	29.8	16.2	8.1	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	86.6	46.0	18.9	13.5	8.1	2.7	0.0	0.0	0.0	0.0	0.0
85°	48.7	29.8	16.2	13.5	8.1	5.4	0.0	0.0	0.0	0.0	0.0
87.5°	35.2	21.7	16.2	13.5	10.8	5.4	2.7	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)