

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: P457660

Luminaire Tested: **GALN-SA9A-730-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457660
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28225 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

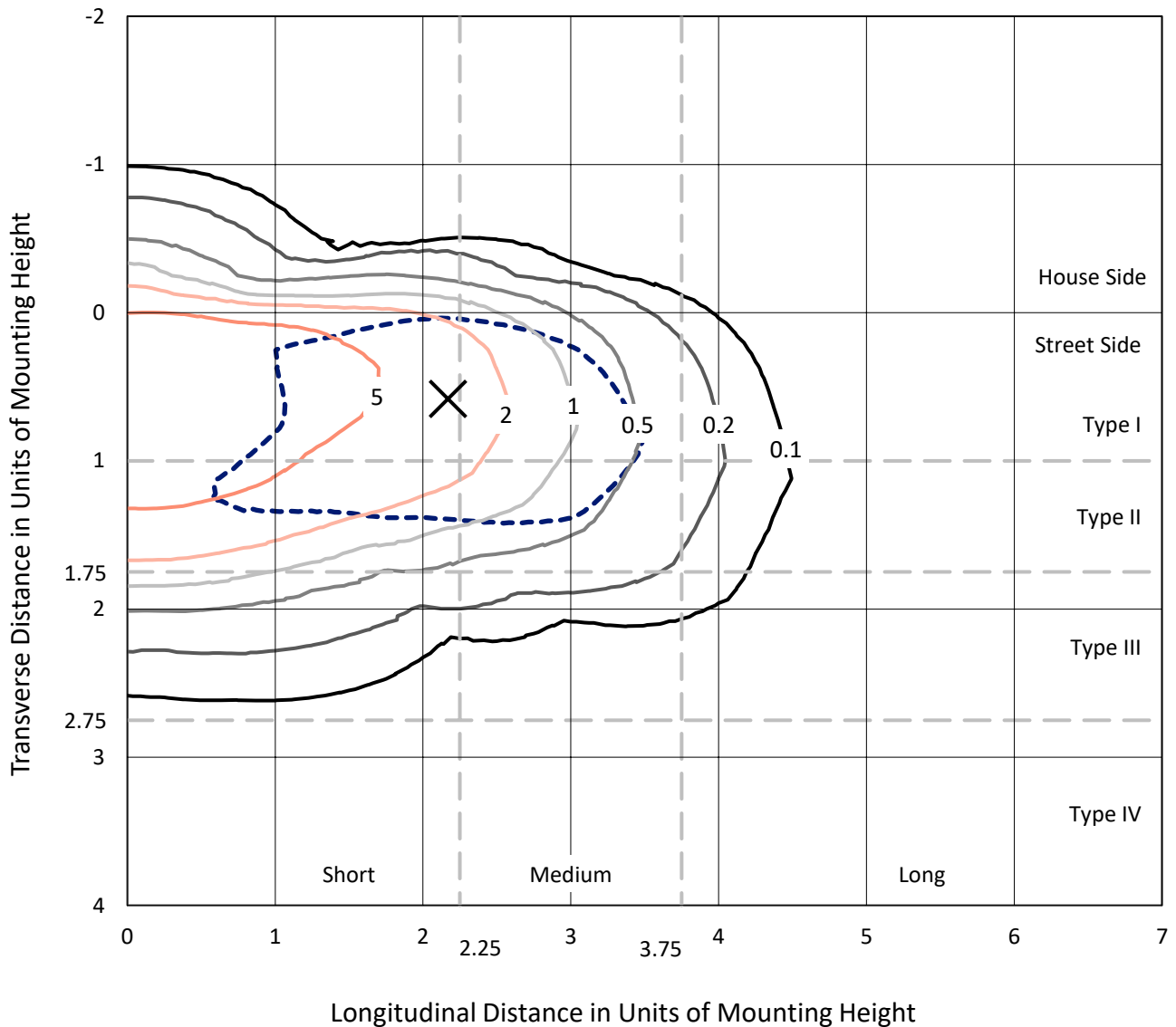
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

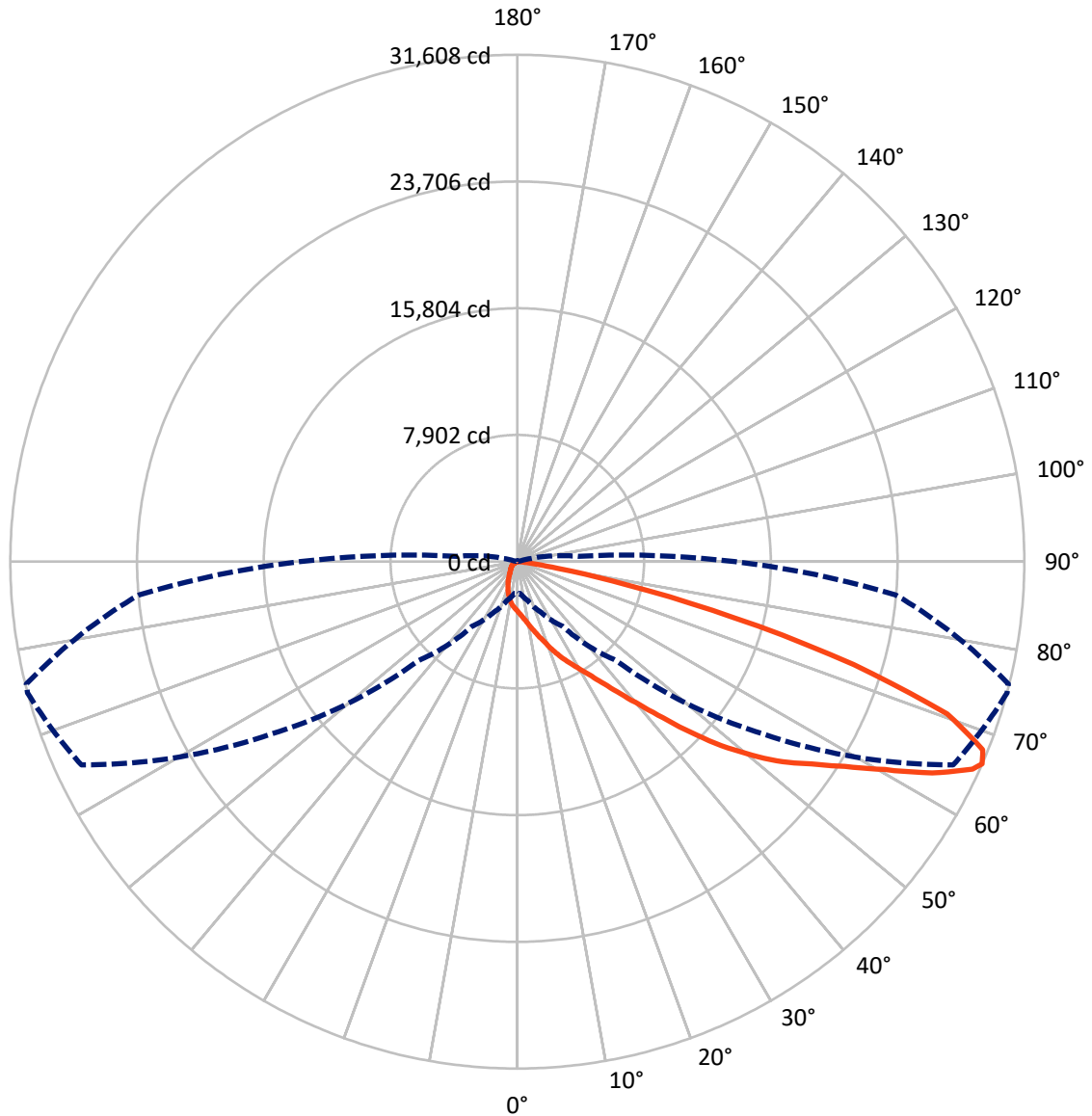
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1742.5	0.0	1742.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	26482.5	0.0	26482.5
	% Fixture	93.8	0.0	93.8
Total	Lumens	28225.0	0.0	28225.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.7	1.1
10°-20°	876.2	3.1
20°-30°	1513.0	5.4
30°-40°	2729.1	9.7
40°-50°	4930.2	17.5
50°-60°	7686.3	27.2
60°-70°	7301.6	25.9
70°-80°	2736.5	9.7
80°-90°	154.4	0.5
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°	28225.0	100.0
0°-180°	28225.0	100.0

Coefficient of Utilization



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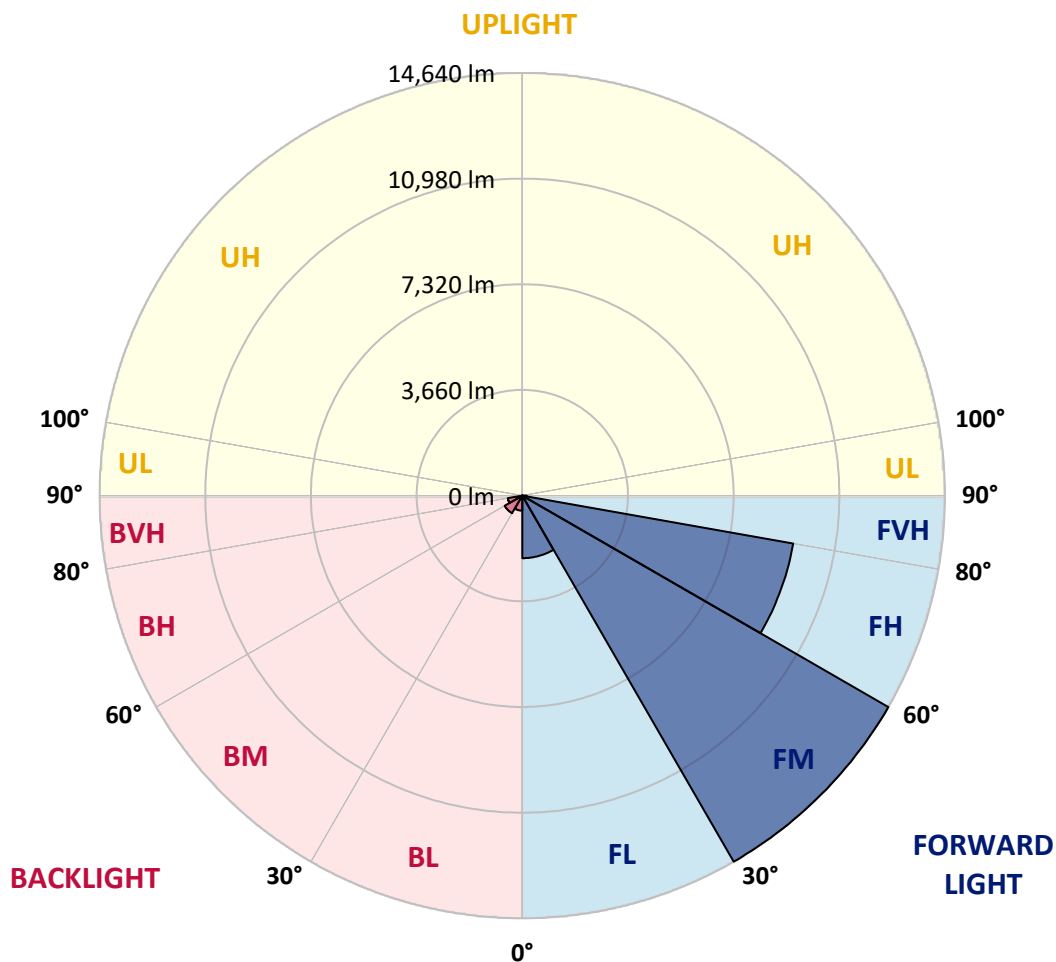
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2166.5	7.7			
FM	(30°-60°)	14640.3	51.9			
FH	(60°-80°)	9529.3	33.8			G4/12000
FVH	(80°-90°)	146.4	0.5			G2/225
BL	(0°-30°)	520.4	1.8	B2/1000		
BM	(30°-60°)	705.3	2.5	B1/1000		
BH	(60°-80°)	508.8	1.8	B2/1000		G2/1000
BVH	(80°-90°)	8.0	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3086.7	3086.7	3086.7	3086.7	3086.7	3086.7	3086.7	3086.7	3086.7	3086.7	3086.7
2.5°	3687.7	3641.8	3656.4	3635.6	3587.6	3516.6	3454.0	3364.3	3274.5	3259.9	3159.7
5°	4174.0	4161.5	4144.8	4084.3	4050.9	3942.4	3813.0	3658.5	3472.8	3439.4	3257.8
7.5°	4505.8	4499.6	4507.9	4476.6	4447.4	4349.3	4211.6	4000.8	3712.8	3694.0	3391.4
10°	4614.4	4631.1	4662.4	4712.5	4758.4	4727.1	4622.7	4359.8	4023.7	3969.5	3543.7
12.5°	4551.8	4570.5	4645.7	4779.2	4927.4	5013.0	4971.2	4779.2	4353.5	4309.7	3714.9
15°	4391.1	4414.0	4520.5	4727.1	4992.1	5234.2	5338.6	5200.8	4737.5	4666.5	3921.5
17.5°	4153.1	4186.5	4338.9	4612.3	4975.4	5392.8	5687.1	5641.2	5146.6	5079.8	4146.9
20°	3973.7	3998.7	4128.1	4441.2	4904.5	5480.5	6018.9	6148.3	5651.6	5536.8	4411.9
22.5°	4092.6	4101.0	4144.8	4332.6	4777.2	5503.4	6311.1	6676.3	6188.0	6085.7	4687.4
25°	4674.9	4591.4	4547.6	4505.8	4750.0	5482.6	6576.2	7227.3	6722.2	6613.7	4960.8
27.5°	5593.2	5555.6	5334.4	5038.0	4981.7	5509.7	6751.5	7749.1	7225.2	7108.3	5228.0
30°	6592.9	6528.2	6392.5	5958.4	5522.2	5701.7	6878.8	8256.2	7820.0	7665.6	5472.1
32.5°	7511.1	7552.9	7350.4	6903.8	6398.8	6110.8	7043.6	8809.3	8502.5	8310.5	5756.0
35°	8581.8	8665.3	8354.3	7926.5	7335.8	6849.6	7365.0	9433.3	9368.6	9126.5	6194.2
37.5°	9669.1	9719.2	9529.3	8928.2	8396.0	7788.7	7970.3	10203.4	10435.0	10228.4	6718.1
40°	10583.2	10652.1	10512.3	9978.0	9410.3	8876.0	8848.9	11042.4	11703.9	11491.1	7498.6
42.5°	11282.4	11334.5	11338.7	10961.0	10449.6	10207.5	9969.6	12113.0	13294.2	13048.0	8404.4
45°	12165.2	12240.3	12196.5	11939.8	11557.8	11514.0	11390.9	13406.9	15197.6	14886.6	9579.4
47.5°	13530.1	13580.2	13471.6	13169.0	12780.8	12849.7	12776.7	14857.4	17138.5	16871.4	10796.1
50°	14477.6	14561.0	14715.5	14836.5	14554.8	14300.2	14083.1	16211.9	18981.3	18741.3	12039.9
52.5°	14467.1	14604.9	15093.2	15702.6	16318.3	16241.1	15617.1	17708.3	20740.7	20444.3	13208.7
55°	13492.5	13759.6	14477.6	15558.6	17263.7	18113.1	17829.3	19440.5	22260.0	22059.7	14563.1
57.5°	11480.6	11643.4	12641.0	14152.0	16735.7	18993.8	20392.1	21788.3	24082.0	23988.1	16666.8
60°	7721.9	7795.0	9078.5	10946.3	14248.0	18115.2	22270.4	24628.8	26325.5	26279.6	19123.2
62.5°	4424.5	4455.8	5386.6	6962.3	10138.7	15352.0	22429.1	28132.8	29015.7	29040.7	21965.7
65°	2381.3	2398.0	3149.3	4086.4	6169.2	10942.2	20168.8	30052.9	31190.3	31238.3	23727.2
66°	2055.7	1976.4	2506.5	3483.2	4908.6	8709.1	18739.2	29984.0	31607.7	31555.5	23664.6
67.5°	1563.2	1634.1	2001.4	2677.6	3637.7	6192.1	15471.0	28650.4	31290.5	31127.7	22702.5
70°	1118.6	1147.9	1425.4	1909.6	2477.3	3397.6	9886.2	23796.0	28439.6	28220.5	19778.6
72.5°	722.1	753.4	1010.1	1381.6	1790.7	1855.3	5534.7	17192.8	21926.1	21894.8	14895.0
75°	515.5	544.7	667.8	989.2	1346.1	1147.9	2665.1	11587.1	13939.1	13845.2	9214.1
77.5°	373.6	388.2	446.6	647.0	962.1	822.3	1235.5	6188.0	6939.3	7267.0	4071.7
80°	215.0	227.5	311.0	394.4	651.1	561.4	590.6	2483.5	2560.8	2437.6	1273.1
82.5°	106.4	121.0	185.7	269.2	407.0	377.7	271.3	747.1	788.9	768.0	321.4
85°	25.0	31.3	104.4	177.4	198.3	169.0	131.5	219.1	271.3	265.0	123.1
87.5°	2.1	4.2	37.6	31.3	33.4	56.3	45.9	56.3	87.7	81.4	43.8
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°	3086.7	3086.7	3086.7	3086.7	3086.7	3086.7	3086.7	3086.7	3086.7	3086.7	3086.7
2.5°	3113.8	3074.2	2959.4	2846.7	2752.8	2654.7	2564.9	2512.8	2491.9	2468.9	2479.4
5°	3157.6	3061.6	2830.0	2629.6	2433.4	2266.5	2132.9	2047.4	2005.6	1999.4	1988.9
7.5°	3216.1	3051.2	2692.2	2379.2	2122.5	1936.7	1784.4	1661.3	1623.7	1590.3	1563.2
10°	3287.0	3032.4	2521.1	2116.2	1842.8	1609.1	1408.7	1262.6	1187.5	1166.6	1181.2
12.5°	3362.2	2996.9	2341.6	1874.1	1559.0	1260.6	1074.8	1001.8	980.9	972.5	974.6
15°	3437.3	2953.1	2153.8	1640.4	1241.8	1005.9	920.4	901.6	893.2	889.1	884.9
17.5°	3506.2	2882.2	1943.0	1412.9	1005.9	859.8	828.5	811.8	795.1	788.9	778.5
20°	3587.6	2800.8	1753.1	1158.3	851.5	778.5	740.9	709.6	684.5	667.8	665.8
22.5°	3664.8	2696.4	1554.8	960.0	776.4	699.1	638.6	605.2	576.0	555.1	561.4
25°	3706.5	2569.1	1377.4	836.9	707.5	619.8	553.1	511.3	480.0	469.6	467.5
27.5°	3706.5	2412.6	1204.2	765.9	644.9	548.9	480.0	440.4	419.5	404.9	407.0
30°	3677.3	2239.4	1043.5	711.7	590.6	486.3	421.6	386.1	369.4	359.0	356.9
32.5°	3654.3	2074.5	905.8	659.5	534.3	432.0	375.7	348.5	331.8	321.4	321.4
35°	3689.8	1932.6	799.3	607.3	482.1	390.3	340.2	315.1	298.4	290.1	288.0
37.5°	3783.7	1803.2	717.9	551.0	434.1	354.8	315.1	285.9	269.2	258.8	254.6
40°	4015.4	1730.1	657.4	498.8	388.2	325.6	285.9	258.8	237.9	227.5	225.4
42.5°	4386.9	1732.2	599.0	450.8	352.7	300.5	260.9	229.6	206.6	196.2	194.1
45°	4946.2	1811.5	553.1	404.9	321.4	273.4	233.7	200.4	179.5	169.0	169.0
47.5°	5616.1	1966.0	513.4	365.2	292.2	248.4	206.6	173.2	152.4	144.0	144.0
50°	6342.4	2166.3	473.8	323.5	267.1	221.2	177.4	150.3	133.6	127.3	127.3
52.5°	7083.3	2408.4	434.1	290.1	240.0	192.0	152.4	133.6	119.0	114.8	112.7
55°	8055.8	2717.3	392.4	254.6	210.8	164.9	135.7	116.9	100.2	93.9	91.8
57.5°	9552.2	3182.7	346.4	223.3	173.2	137.7	116.9	98.1	79.3	68.9	66.8
60°	11357.5	3750.4	298.4	196.2	139.8	112.7	93.9	75.1	58.4	45.9	43.8
62.5°	13048.0	4111.4	252.5	164.9	110.6	85.6	66.8	56.3	41.7	29.2	27.1
65°	13795.1	3990.4	208.7	133.6	87.7	60.5	43.8	39.7	25.0	12.5	10.4
66°	13546.8	3810.9	192.0	121.0	79.3	52.2	37.6	33.4	18.8	6.3	6.3
67.5°	12814.2	3387.2	167.0	104.4	68.9	41.7	29.2	25.0	10.4	2.1	0.0
70°	10979.7	2740.2	131.5	77.2	50.1	29.2	16.7	12.5	6.3	0.0	0.0
72.5°	8433.6	2041.1	104.4	58.4	35.5	16.7	8.3	4.2	6.3	0.0	0.0
75°	5167.4	1166.6	81.4	43.8	23.0	10.4	6.3	0.0	6.3	2.1	0.0
77.5°	2293.6	523.8	54.3	29.2	16.7	8.3	4.2	0.0	4.2	2.1	0.0
80°	580.2	171.1	31.3	20.9	12.5	6.3	2.1	0.0	4.2	4.2	2.1
82.5°	158.6	62.6	23.0	16.7	10.4	6.3	2.1	0.0	4.2	4.2	4.2
85°	62.6	29.2	20.9	16.7	12.5	6.3	2.1	0.0	4.2	4.2	4.2
87.5°	29.2	20.9	20.9	18.8	14.6	6.3	2.1	0.0	4.2	2.1	4.2
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)