

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: P453069

Luminaire Tested: **GALN-SA4A-750-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453069
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-750-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14965 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

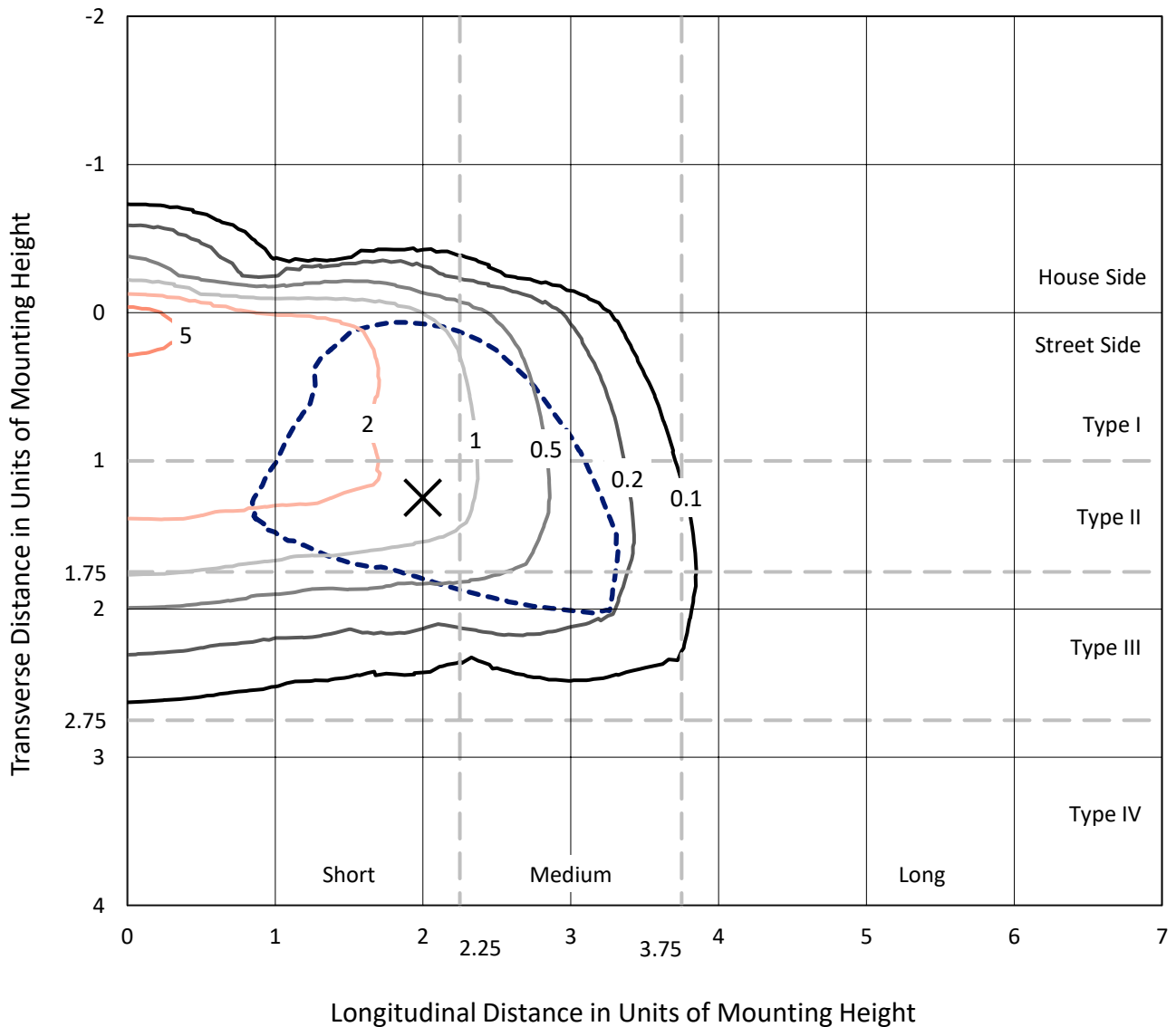
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

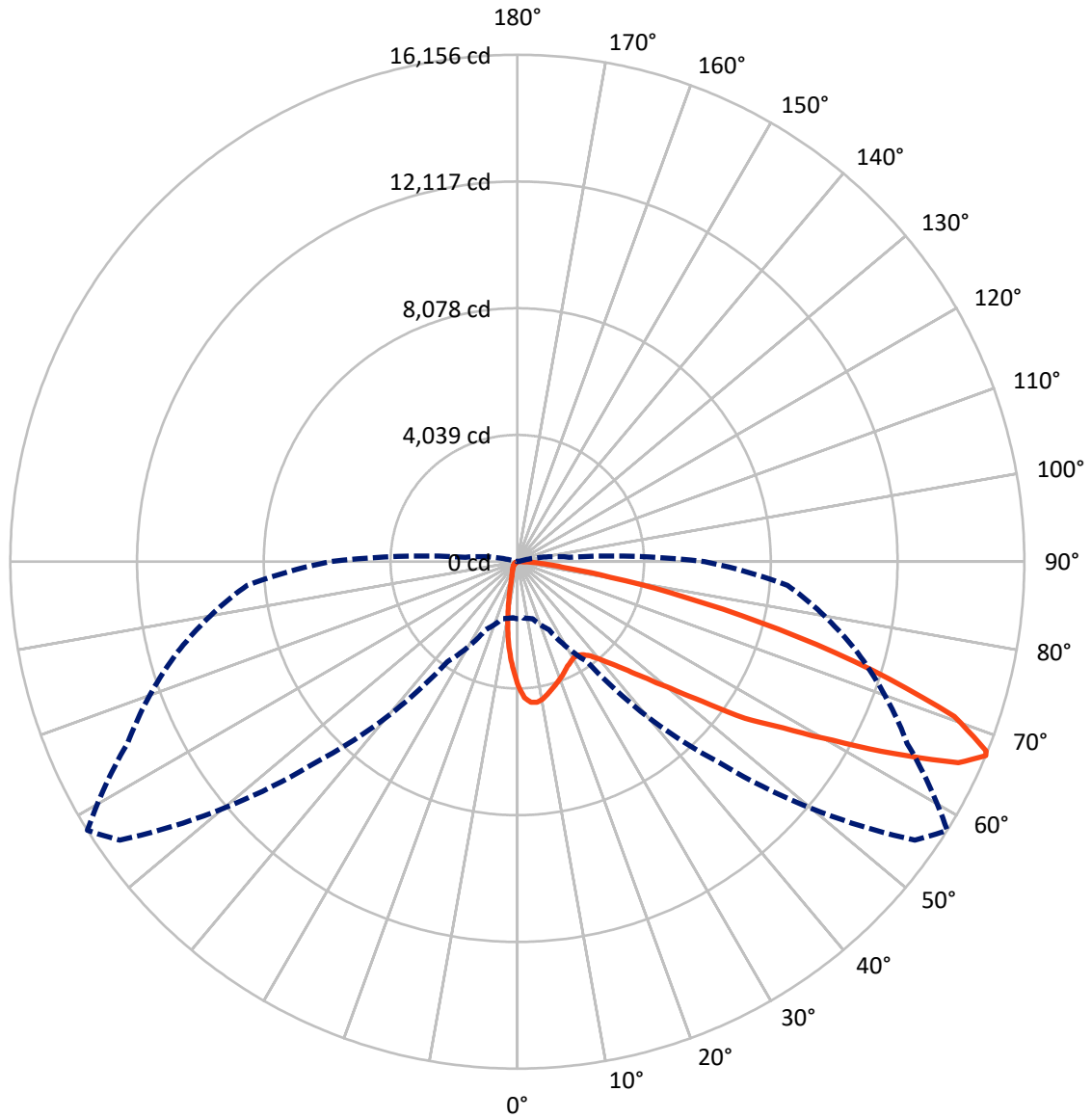
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1080.0	0.0	1080.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	13885.0	0.0	13885.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	14965.0	0.0	14965.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.9	2.2
10°-20°	695.3	4.6
20°-30°	942.1	6.3
30°-40°	1306.7	8.7
40°-50°	2084.0	13.9
50°-60°	3602.4	24.1
60°-70°	4115.1	27.5
70°-80°	1715.6	11.5
80°-90°	181.9	1.2
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°	14965.0	100.0
0°-180°	14965.0	100.0

Coefficient of Utilization



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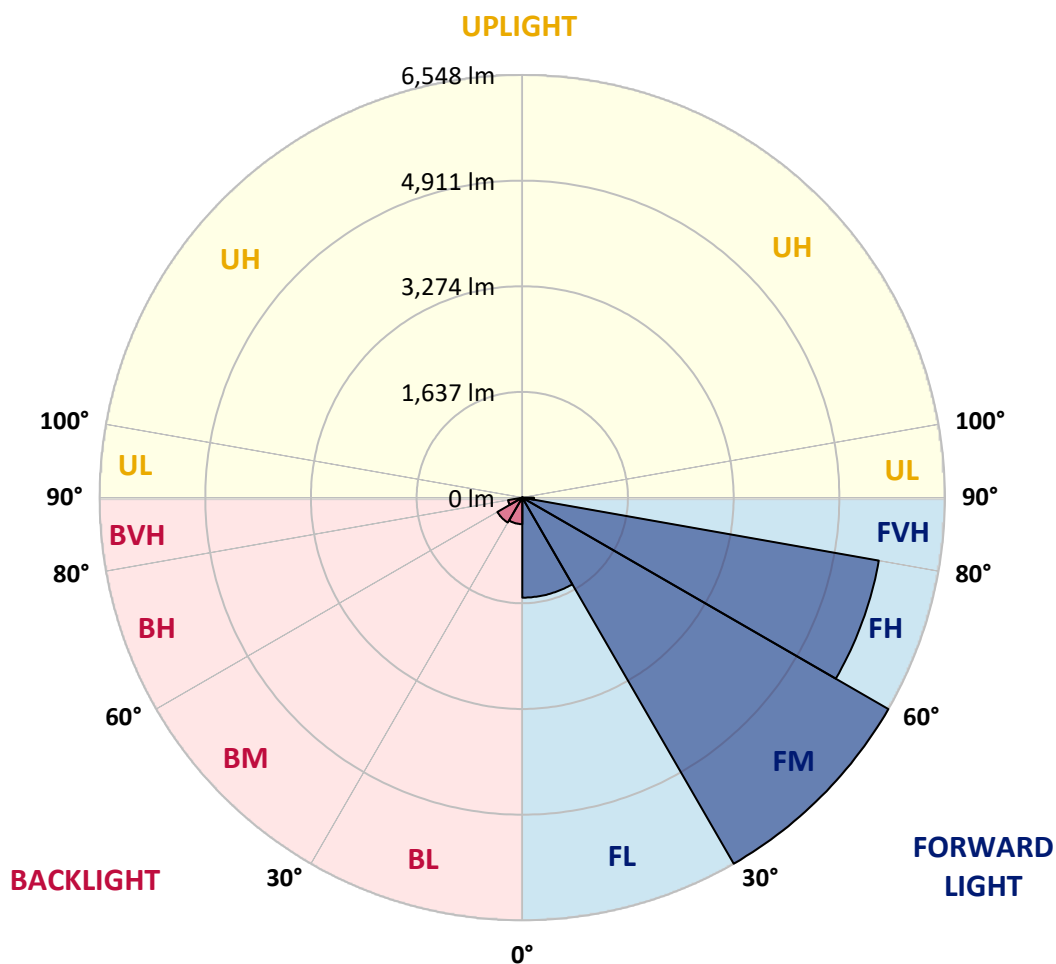
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1549.2	10.4			
FM (30°-60°)	6547.8	43.8			
FH (60°-80°)	5607.4	37.5			G3/7500
FVH (80°-90°)	180.6	1.2			G2/225
BL (0°-30°)	410.1	2.7	B1/500		
BM (30°-60°)	445.3	3.0	B1/1000		
BH (60°-80°)	223.3	1.5	B1/500		G1/500
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3967.1	3967.1	3967.1	3967.1	3967.1	3967.1	3967.1	3967.1	3967.1	3967.1	3967.1
2.5°	4604.1	4611.1	4585.1	4564.1	4510.1	4452.1	4375.1	4334.1	4264.1	4143.1	4009.1
5°	4712.1	4721.1	4717.1	4712.1	4691.1	4635.1	4537.1	4501.1	4398.1	4201.1	3959.1
7.5°	4472.1	4505.1	4509.1	4548.1	4585.1	4590.1	4553.1	4526.1	4431.1	4200.1	3870.1
10°	4154.1	4176.1	4208.1	4253.1	4342.1	4416.1	4452.1	4448.1	4393.1	4169.1	3766.1
12.5°	3833.1	3845.1	3894.1	3971.1	4080.1	4206.1	4302.1	4321.1	4322.1	4132.1	3679.1
15°	3557.1	3552.1	3590.1	3679.1	3832.1	3990.1	4162.1	4192.1	4240.1	4096.1	3598.1
17.5°	3321.1	3347.1	3353.1	3451.1	3592.1	3797.1	4016.1	4069.1	4165.1	4065.1	3531.1
20°	3175.1	3189.1	3202.1	3257.1	3384.1	3600.1	3879.1	3952.1	4095.1	4037.1	3456.1
22.5°	3132.1	3141.1	3130.1	3147.1	3237.1	3429.1	3730.1	3827.1	4028.1	4011.1	3395.1
25°	3165.1	3174.1	3148.1	3128.1	3159.1	3290.1	3586.1	3704.1	3974.1	4006.1	3349.1
27.5°	3245.1	3262.1	3226.1	3190.1	3172.1	3215.1	3473.1	3610.1	3937.1	4030.1	3328.1
30°	3370.1	3380.1	3353.1	3309.1	3268.1	3225.1	3414.1	3545.1	3927.1	4086.1	3326.1
32.5°	3506.1	3527.1	3512.1	3483.1	3430.1	3328.1	3431.1	3547.1	3951.1	4167.1	3351.1
35°	3674.1	3698.1	3712.1	3706.1	3638.1	3511.1	3539.1	3637.1	4015.1	4316.1	3419.1
37.5°	3839.1	3860.1	3939.1	3966.1	3906.1	3786.1	3749.1	3814.1	4156.1	4511.1	3542.1
40°	4028.1	4056.1	4167.1	4270.1	4241.1	4115.1	4047.1	4101.1	4372.1	4805.1	3775.1
42.5°	4209.1	4259.1	4428.1	4610.1	4637.1	4496.1	4451.1	4469.1	4692.1	5228.1	4100.1
45°	4466.1	4513.1	4731.1	4978.1	5105.1	4995.1	4949.1	4946.1	5131.1	5823.1	4627.1
47.5°	4837.1	4879.1	5136.1	5380.1	5606.1	5621.1	5534.1	5564.1	5683.1	6519.1	5273.1
50°	5292.1	5391.1	5560.1	5814.1	6116.1	6360.1	6387.1	6347.1	6449.1	7325.2	6049.1
52.5°	5953.1	5991.1	6146.1	6355.1	6709.1	7123.2	7444.2	7389.2	7357.2	8093.2	6833.1
55°	6446.1	6497.1	6738.1	7025.1	7544.2	8090.2	8786.2	8805.2	8401.2	8831.2	7600.2
57.5°	6297.1	6375.1	6740.1	7317.2	8458.2	9456.2	9974.2	9987.2	9367.2	9548.2	8466.2
60°	5532.1	5569.1	6092.1	6862.1	8536.2	10936.2	11659.2	11554.2	10350.2	10350.2	9231.2
62.5°	3923.1	3981.1	4405.1	5538.1	7709.2	11450.2	13677.3	13460.3	11704.2	11117.2	9687.2
65°	2507.1	2451.1	2732.1	3496.1	5743.1	10691.2	15434.3	15447.3	12978.3	11424.2	9438.2
67°	1816.0	1794.0	1875.0	2390.1	3894.1	8987.2	15471.3	16156.3	13710.3	11230.2	8642.2
67.5°	1661.0	1678.0	1737.0	2156.0	3538.1	8178.2	15303.3	16114.3	13875.3	11113.2	8354.2
70°	1259.0	1230.0	1294.0	1525.0	2121.0	5159.1	13164.3	14779.3	13670.3	9952.2	6675.1
72.5°	926.0	923.0	1012.0	1247.0	1633.0	2748.1	9882.2	11850.3	11168.2	7578.2	4203.1
75°	625.0	653.0	795.0	1042.0	1480.0	1782.0	6737.1	8597.2	7753.2	4303.1	1718.0
77.5°	356.0	358.0	512.0	837.0	1329.0	1434.0	3992.1	5477.1	4104.1	1431.0	510.0
80°	154.0	169.0	254.0	608.0	1102.0	1270.0	2289.0	3010.1	1660.0	303.0	165.0
82.5°	57.0	67.0	112.0	374.0	804.0	1046.0	1383.0	1437.0	563.0	107.0	103.0
85°	0.0	2.0	41.0	175.0	419.0	467.0	924.0	852.0	249.0	51.0	67.0
87.5°	0.0	0.0	0.0	18.0	55.0	174.0	287.0	320.0	60.0	18.0	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°	3967.1	3967.1	3967.1	3967.1	3967.1	3967.1	3967.1	3967.1	3967.1	3967.1	3967.1
2.5°	3937.1	3872.1	3709.1	3546.1	3425.1	3324.1	3172.1	3089.1	3045.1	2980.1	2984.1
5°	3838.1	3706.1	3419.1	3122.1	2882.1	2648.1	2368.1	2255.0	2160.0	2106.0	2070.0
7.5°	3691.1	3496.1	3071.1	2675.1	2306.0	1897.0	1590.0	1385.0	1247.0	1196.0	1147.0
10°	3530.1	3271.1	2718.1	2169.0	1657.0	1235.0	975.0	787.0	720.0	658.0	664.0
12.5°	3381.1	3066.1	2394.1	1712.0	1161.0	785.0	612.0	535.0	513.0	506.0	506.0
15°	3259.1	2870.1	2046.0	1287.0	796.0	564.0	490.0	469.0	461.0	459.0	459.0
17.5°	3129.1	2684.1	1732.0	951.0	579.0	472.0	447.0	433.0	430.0	428.0	428.0
20°	3013.1	2497.1	1434.0	708.0	468.0	425.0	409.0	400.0	397.0	395.0	396.0
22.5°	2903.1	2331.0	1154.0	535.0	412.0	387.0	371.0	362.0	356.0	351.0	352.0
25°	2805.1	2171.0	928.0	438.0	371.0	349.0	333.0	320.0	307.0	301.0	300.0
27.5°	2736.1	2031.0	723.0	375.0	334.0	310.0	290.0	274.0	257.0	248.0	246.0
30°	2679.1	1889.0	572.0	331.0	297.0	274.0	249.0	226.0	208.0	199.0	195.0
32.5°	2642.1	1754.0	451.0	295.0	266.0	238.0	210.0	187.0	167.0	158.0	156.0
35°	2636.1	1641.0	369.0	265.0	238.0	208.0	179.0	154.0	137.0	128.0	126.0
37.5°	2679.1	1554.0	309.0	241.0	215.0	182.0	150.0	127.0	112.0	105.0	104.0
40°	2794.1	1499.0	268.0	221.0	194.0	158.0	128.0	108.0	93.0	86.0	86.0
42.5°	3013.1	1501.0	241.0	202.0	173.0	135.0	109.0	90.0	77.0	71.0	69.0
45°	3355.1	1569.0	218.0	183.0	153.0	117.0	93.0	74.0	61.0	56.0	56.0
47.5°	3813.1	1704.0	198.0	164.0	135.0	100.0	79.0	60.0	49.0	44.0	44.0
50°	4412.1	1921.0	181.0	148.0	120.0	86.0	64.0	49.0	38.0	34.0	33.0
52.5°	5038.1	2189.0	161.0	134.0	103.0	73.0	52.0	38.0	29.0	26.0	25.0
55°	5729.1	2451.1	142.0	120.0	84.0	61.0	41.0	30.0	21.0	18.0	18.0
57.5°	6426.1	2708.1	119.0	100.0	66.0	45.0	32.0	22.0	14.0	11.0	11.0
60°	7016.1	2791.1	101.0	81.0	50.0	32.0	23.0	14.0	8.0	5.0	5.0
62.5°	7097.2	2511.1	85.0	62.0	36.0	22.0	12.0	8.0	3.0	2.0	2.0
65°	6657.1	2040.0	71.0	47.0	24.0	11.0	5.0	3.0	1.0	0.0	0.0
67°	5965.1	1654.0	58.0	35.0	17.0	7.0	3.0	1.0	0.0	0.0	0.0
67.5°	5788.1	1577.0	56.0	33.0	15.0	6.0	2.0	1.0	0.0	0.0	0.0
70°	4542.1	1181.0	40.0	20.0	9.0	4.0	0.0	0.0	0.0	0.0	0.0
72.5°	2823.1	668.0	29.0	12.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0
75°	1067.0	234.0	20.0	8.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	332.0	89.0	12.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	112.0	34.0	8.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	69.0	14.0	5.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	43.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.0	2.0	1.0	0.0	0.0	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)