

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: P454084

Luminaire Tested: **GALN-SA5A-830-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454084
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-SA5A-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 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: 15054 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

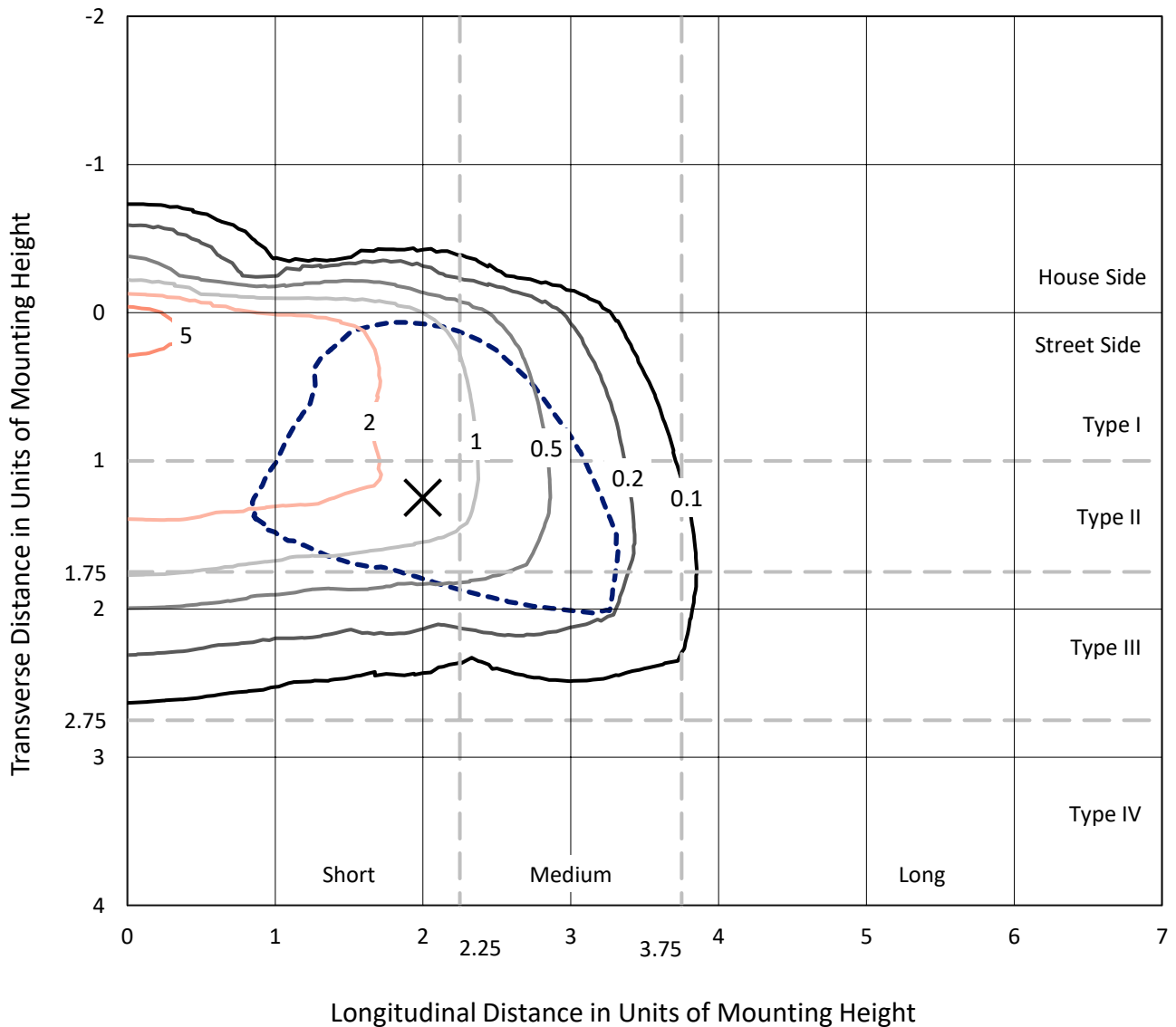
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454084
 CATALOG NUMBER: GALN-SA5A-830-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

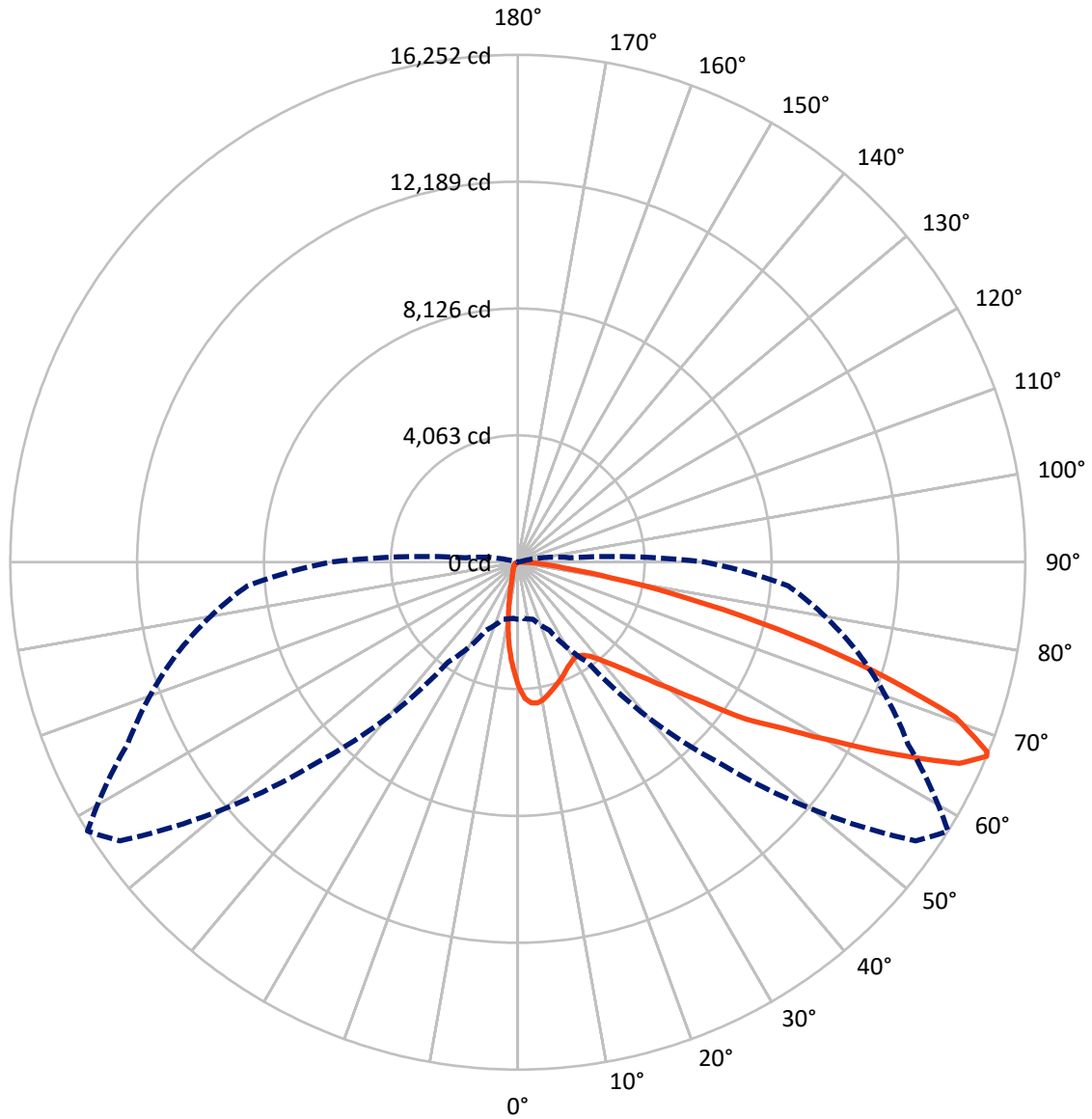
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Short - N/A

REPORT NUMBER: P454084
CATALOG NUMBER: GALN-SA5A-830-U-SL3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P454084

CATALOG NUMBER: GALN-SA5A-830-U-SL3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1086.4	0.0	1086.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	13967.6	0.0	13967.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	15054.0	0.0	15054.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.8	2.2
10°-20°	699.4	4.6
20°-30°	947.7	6.3
30°-40°	1314.5	8.7
40°-50°	2096.4	13.9
50°-60°	3623.8	24.1
60°-70°	4139.5	27.5
70°-80°	1725.8	11.5
80°-90°	183.0	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°	15054.0	100.0
0°-180°	15054.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454084

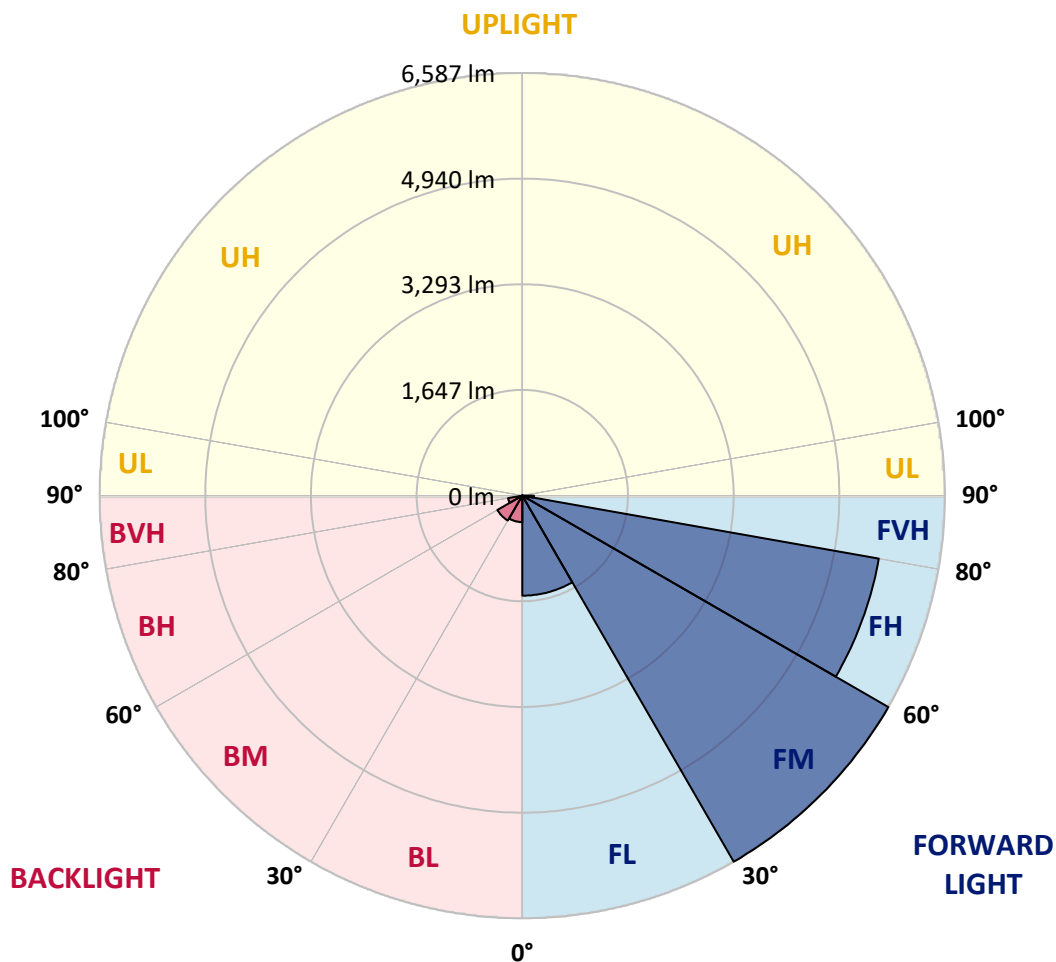
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1558.5	10.4			
FM	(30°-60°)	6586.8	43.8			
FH	(60°-80°)	5640.8	37.5			G3/7500
FVH	(80°-90°)	181.7	1.2			G2/225
BL	(0°-30°)	412.5	2.7	B1/500		
BM	(30°-60°)	447.9	3.0	B1/1000		
BH	(60°-80°)	224.6	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





REPORT NUMBER: P454084

CATALOG NUMBER: GALN-SA5A-830-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3990.7	3990.7	3990.7	3990.7	3990.7	3990.7	3990.7	3990.7	3990.7	3990.7	3990.7
2.5°	4631.5	4638.5	4612.4	4591.2	4536.9	4478.6	4401.1	4359.9	4289.4	4167.7	4032.9
5°	4740.1	4749.2	4745.2	4740.1	4719.0	4662.7	4564.1	4527.9	4424.2	4226.1	3982.6
7.5°	4498.7	4531.9	4535.9	4575.1	4612.4	4617.4	4580.2	4553.0	4457.4	4225.1	3893.1
10°	4178.8	4200.9	4233.1	4278.4	4367.9	4442.4	4478.6	4474.5	4419.2	4193.9	3788.5
12.5°	3855.9	3867.9	3917.2	3994.7	4104.4	4231.1	4327.7	4346.8	4347.8	4156.7	3701.0
15°	3578.2	3573.2	3611.4	3701.0	3854.9	4013.8	4186.8	4217.0	4265.3	4120.4	3619.5
17.5°	3340.8	3367.0	3373.0	3471.6	3613.4	3819.7	4040.0	4093.3	4189.9	4089.3	3552.1
20°	3194.0	3208.0	3221.1	3276.4	3404.2	3621.5	3902.2	3975.6	4119.4	4061.1	3476.6
22.5°	3150.7	3159.7	3148.7	3165.8	3256.3	3449.5	3752.3	3849.8	4052.0	4034.9	3415.3
25°	3183.9	3192.9	3166.8	3146.7	3177.9	3309.6	3607.4	3726.1	3997.7	4029.9	3369.0
27.5°	3264.4	3281.5	3245.3	3209.0	3190.9	3234.2	3493.7	3631.5	3960.5	4054.1	3347.9
30°	3390.1	3400.2	3373.0	3328.7	3287.5	3244.2	3434.4	3566.2	3950.4	4110.4	3345.9
32.5°	3526.9	3548.1	3533.0	3503.8	3450.5	3347.9	3451.5	3568.2	3974.6	4191.9	3371.0
35°	3695.9	3720.1	3734.2	3728.1	3659.7	3532.0	3560.1	3658.7	4039.0	4341.8	3439.4
37.5°	3861.9	3883.0	3962.5	3989.7	3929.3	3808.6	3771.4	3836.8	4180.8	4537.9	3563.1
40°	4052.0	4080.2	4191.9	4295.5	4266.3	4139.6	4071.2	4125.5	4398.1	4833.7	3797.5
42.5°	4234.1	4284.4	4454.4	4637.5	4664.7	4522.8	4477.6	4495.7	4720.0	5259.2	4124.5
45°	4492.7	4539.9	4759.2	5007.7	5135.5	5024.8	4978.5	4975.5	5161.6	5857.8	4654.6
47.5°	4865.9	4908.1	5166.7	5412.1	5639.5	5654.5	5567.0	5597.2	5716.9	6557.9	5304.5
50°	5323.6	5423.2	5593.2	5848.7	6152.5	6398.0	6425.1	6384.9	6487.5	7368.7	6085.1
52.5°	5988.5	6026.8	6182.7	6392.9	6749.0	7165.5	7488.4	7433.1	7400.9	8141.3	6873.8
55°	6484.5	6535.8	6778.2	7066.9	7589.0	8138.3	8838.4	8857.6	8451.1	8883.7	7645.4
57.5°	6334.6	6413.0	6780.2	7360.7	8508.5	9512.4	10033.5	10046.6	9422.9	9605.0	8516.5
60°	5565.0	5602.2	6128.4	6903.0	8586.9	11001.3	11728.6	11623.0	10411.8	10411.8	9286.1
62.5°	3946.4	4004.8	4431.3	5571.1	7755.0	11518.3	13758.6	13540.3	11773.9	11183.4	9744.8
65°	2522.0	2465.6	2748.3	3516.9	5777.3	10754.8	15526.1	15539.2	13055.5	11492.2	9494.3
67°	1826.8	1804.7	1886.2	2404.3	3917.2	9040.6	15563.3	16252.4	13791.8	11297.0	8693.6
67.5°	1670.9	1688.0	1747.4	2168.9	3559.1	8226.8	15394.3	16210.2	13957.8	11179.3	8403.9
70°	1266.5	1237.3	1301.7	1534.1	2133.7	5189.8	13242.6	14867.2	13751.6	10011.4	6714.8
72.5°	931.5	928.5	1018.0	1254.4	1642.7	2764.4	9941.0	11920.7	11234.7	7623.2	4228.1
75°	628.7	656.9	799.7	1048.2	1488.8	1792.6	6777.2	8648.3	7799.3	4328.7	1728.3
77.5°	358.1	360.1	515.1	842.0	1336.9	1442.6	4015.8	5509.7	4128.5	1439.5	513.0
80°	154.9	170.0	255.5	611.6	1108.6	1277.6	2302.7	3028.0	1669.9	304.8	166.0
82.5°	57.3	67.4	112.7	376.2	808.8	1052.2	1391.3	1445.6	566.4	107.6	103.6
85°	0.0	2.0	41.2	176.0	421.5	469.8	929.5	857.1	250.5	51.3	67.4
87.5°	0.0	0.0	0.0	18.1	55.3	175.0	288.7	321.9	60.4	18.1	16.1
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°	3990.7	3990.7	3990.7	3990.7	3990.7	3990.7	3990.7	3990.7	3990.7	3990.7	3990.7
2.5°	3960.5	3895.1	3731.1	3567.2	3445.4	3343.8	3190.9	3107.4	3063.2	2997.8	3001.8
5°	3860.9	3728.1	3439.4	3140.6	2899.2	2663.8	2382.1	2268.5	2172.9	2118.6	2082.4
7.5°	3713.0	3516.9	3089.3	2691.0	2319.8	1908.3	1599.5	1393.3	1254.4	1203.1	1153.8
10°	3551.1	3290.5	2734.2	2181.9	1666.9	1242.4	980.8	791.7	724.3	661.9	668.0
12.5°	3401.2	3084.3	2408.3	1722.2	1167.9	789.7	615.7	538.2	516.1	509.0	509.0
15°	3278.5	2887.1	2058.2	1294.7	800.8	567.4	492.9	471.8	463.8	461.7	461.7
17.5°	3147.7	2700.0	1742.3	956.7	582.5	474.8	449.7	435.6	432.6	430.6	430.6
20°	3031.0	2511.9	1442.6	712.2	470.8	427.5	411.4	402.4	399.4	397.4	398.4
22.5°	2920.3	2344.9	1160.9	538.2	414.5	389.3	373.2	364.2	358.1	353.1	354.1
25°	2821.7	2184.0	933.5	440.6	373.2	351.1	335.0	321.9	308.8	302.8	301.8
27.5°	2752.3	2043.1	727.3	377.2	336.0	311.9	291.7	275.6	258.5	249.5	247.5
30°	2695.0	1900.3	575.4	333.0	298.8	275.6	250.5	227.3	209.2	200.2	196.2
32.5°	2657.8	1764.5	453.7	296.8	267.6	239.4	211.3	188.1	168.0	158.9	156.9
35°	2651.7	1650.8	371.2	266.6	239.4	209.2	180.1	154.9	137.8	128.8	126.8
37.5°	2695.0	1563.3	310.8	242.4	216.3	183.1	150.9	127.8	112.7	105.6	104.6
40°	2810.7	1507.9	269.6	222.3	195.2	158.9	128.8	108.6	93.6	86.5	86.5
42.5°	3031.0	1510.0	242.4	203.2	174.0	135.8	109.7	90.5	77.5	71.4	69.4
45°	3375.0	1578.4	219.3	184.1	153.9	117.7	93.6	74.4	61.4	56.3	56.3
47.5°	3835.8	1714.2	199.2	165.0	135.8	100.6	79.5	60.4	49.3	44.3	44.3
50°	4438.3	1932.5	182.1	148.9	120.7	86.5	64.4	49.3	38.2	34.2	33.2
52.5°	5068.1	2202.1	162.0	134.8	103.6	73.4	52.3	38.2	29.2	26.2	25.1
55°	5763.2	2465.6	142.8	120.7	84.5	61.4	41.2	30.2	21.1	18.1	18.1
57.5°	6464.4	2724.2	119.7	100.6	66.4	45.3	32.2	22.1	14.1	11.1	11.1
60°	7057.9	2807.7	101.6	81.5	50.3	32.2	23.1	14.1	8.0	5.0	5.0
62.5°	7139.4	2526.0	85.5	62.4	36.2	22.1	12.1	8.0	3.0	2.0	2.0
65°	6696.7	2052.2	71.4	47.3	24.1	11.1	5.0	3.0	1.0	0.0	0.0
67°	6000.6	1663.9	58.3	35.2	17.1	7.0	3.0	1.0	0.0	0.0	0.0
67.5°	5822.5	1586.4	56.3	33.2	15.1	6.0	2.0	1.0	0.0	0.0	0.0
70°	4569.1	1188.0	40.2	20.1	9.1	4.0	0.0	0.0	0.0	0.0	0.0
72.5°	2839.8	672.0	29.2	12.1	6.0	2.0	0.0	0.0	0.0	0.0	0.0
75°	1073.4	235.4	20.1	8.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	334.0	89.5	12.1	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	112.7	34.2	8.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	69.4	14.1	5.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	43.3	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)