

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: P452241

Luminaire Tested: **GALN-SA3A-830-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452241
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-SA3A-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA 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: 7965 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 93
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

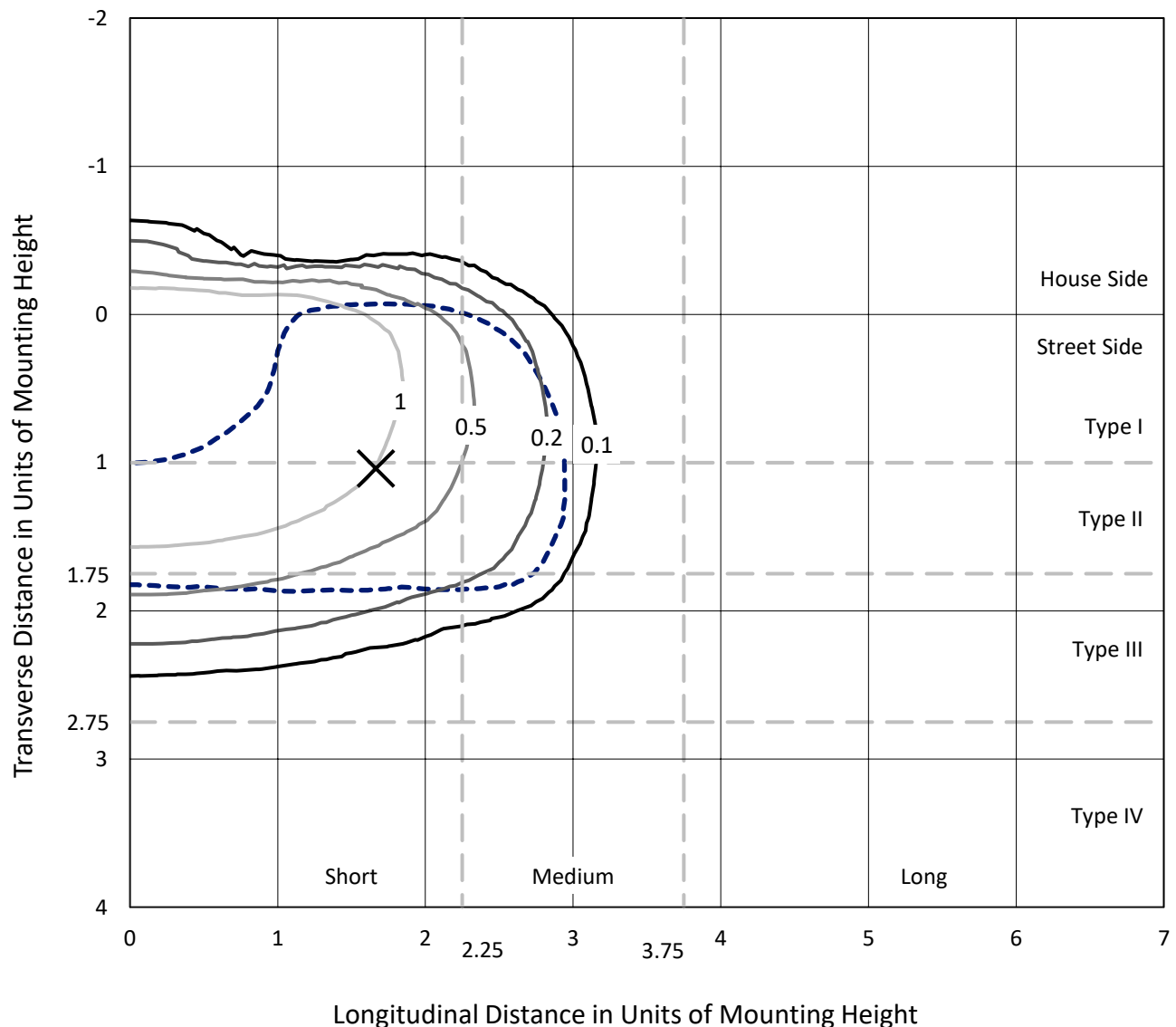


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

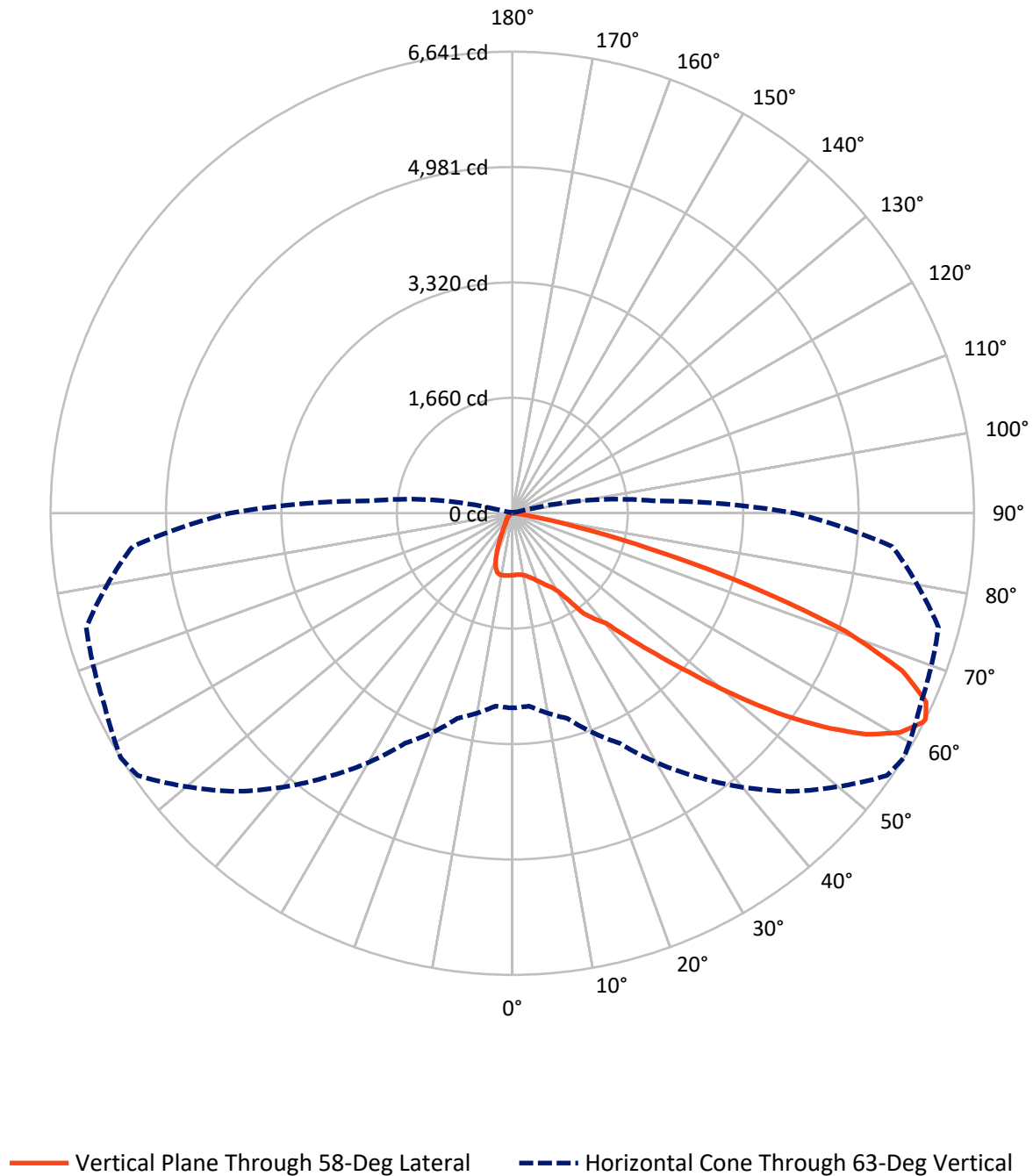


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	824.7	0.0	824.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	7140.3	0.0	7140.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	7965.0	0.0	7965.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.5	1.0
10°-20°	227.4	2.9
20°-30°	394.6	5.0
30°-40°	725.1	9.1
40°-50°	1365.0	17.1
50°-60°	2334.7	29.3
60°-70°	2235.5	28.1
70°-80°	570.1	7.2
80°-90°	29.2	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°	7965.0	100.0
0°-180°	7965.0	100.0

Coefficient of Utilization



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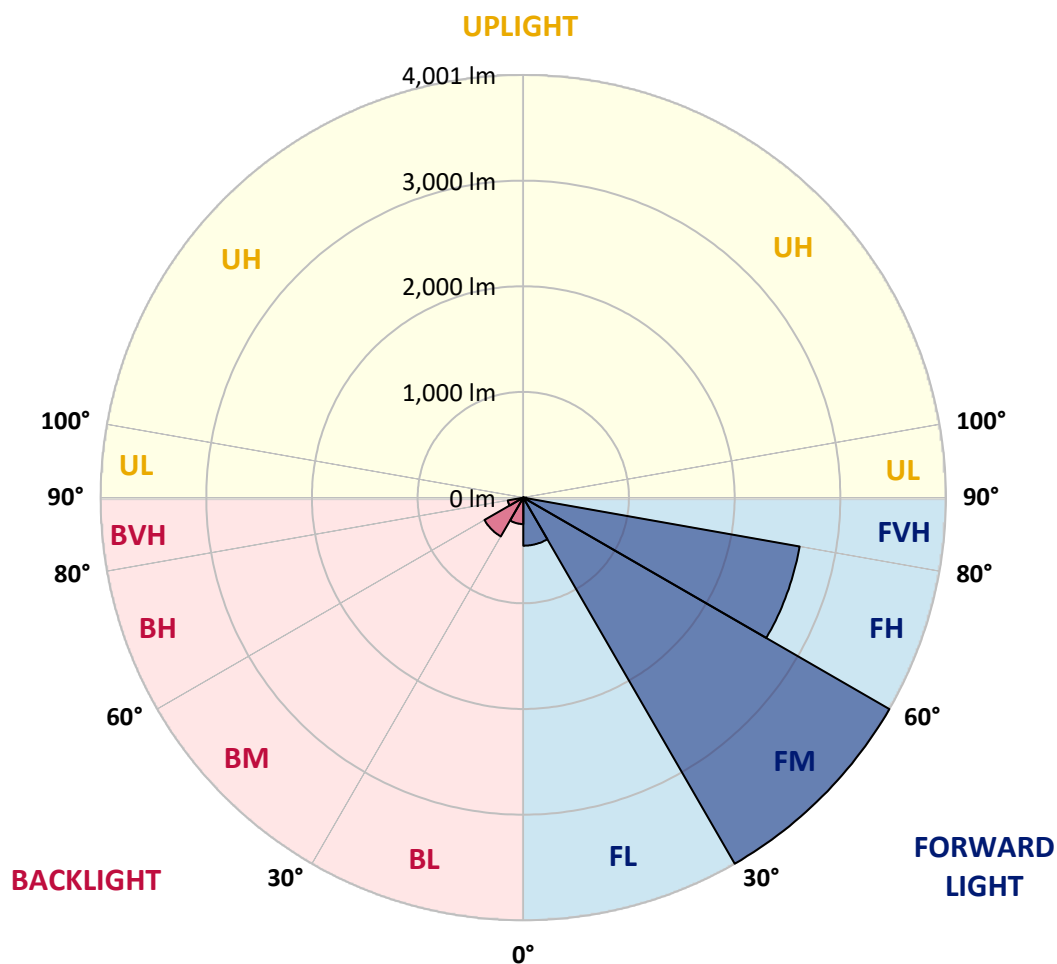
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	455.3	5.7			
FM	(30°-60°)	4000.7	50.2			
FH	(60°-80°)	2656.3	33.3			G2/5000
FVH	(80°-90°)	28.0	0.4			G1/100
BL	(0°-30°)	250.1	3.1	B1/500		
BM	(30°-60°)	424.2	5.3	B1/1000		
BH	(60°-80°)	149.3	1.9	B1/500		G1/500
BVH	(80°-90°)	1.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	891.7	891.7	891.7	891.7	891.7	891.7	891.7	891.7	891.7	891.7	891.7
2.5°	869.5	872.5	875.5	876.7	880.9	885.1	888.1	887.5	892.3	894.7	894.7
5°	834.7	834.7	842.5	849.7	861.7	873.7	885.1	887.5	896.5	904.9	907.9
7.5°	805.4	807.2	813.2	826.3	842.5	863.5	886.3	891.7	907.3	925.9	933.7
10°	791.6	792.8	800.6	814.4	834.7	863.5	895.3	905.5	929.5	958.9	969.7
12.5°	788.6	790.4	798.2	813.8	837.1	871.9	915.1	925.9	960.7	998.5	1014.6
15°	794.0	795.2	803.0	819.8	845.5	886.9	941.5	956.5	997.9	1041.6	1062.6
17.5°	813.2	812.0	817.4	831.1	859.9	905.5	973.3	991.3	1039.8	1099.8	1113.6
20°	894.7	886.9	882.1	870.1	881.5	931.9	1011.6	1038.0	1098.0	1159.2	1168.8
22.5°	1070.4	1053.0	1018.8	972.1	936.1	967.9	1057.8	1088.4	1165.8	1225.7	1225.7
25°	1294.1	1271.9	1237.7	1135.8	1047.6	1027.2	1110.0	1148.4	1239.5	1300.1	1280.3
27.5°	1574.1	1556.7	1490.2	1371.5	1236.5	1131.0	1170.6	1205.9	1304.9	1378.0	1336.7
30°	1802.0	1793.6	1739.0	1632.9	1484.2	1330.1	1283.3	1306.7	1391.8	1476.4	1433.8
32.5°	1994.5	1994.5	1938.7	1839.8	1700.7	1563.9	1474.6	1491.4	1572.9	1670.7	1591.5
35°	2206.2	2199.0	2154.0	2059.9	1904.0	1783.4	1746.8	1769.6	1843.4	1916.0	1721.1
37.5°	2428.7	2426.3	2379.5	2288.3	2161.2	2009.5	1923.7	1929.7	1967.5	2011.9	1872.8
40°	2670.3	2673.9	2612.8	2556.4	2436.5	2281.2	2116.8	2079.1	2114.4	2239.8	2152.8
42.5°	2955.8	2947.4	2921.0	2844.2	2747.7	2654.7	2457.5	2443.7	2474.8	2609.2	2515.0
45°	3287.4	3299.4	3253.8	3211.2	3146.5	3069.1	2904.2	2880.2	2914.4	3123.1	2989.4
47.5°	3619.6	3608.2	3637.6	3629.8	3664.6	3607.0	3461.3	3412.1	3494.3	3692.2	3495.5
50°	3872.7	3885.3	3946.4	4035.8	4185.1	4217.5	4077.8	4061.0	4097.6	4224.7	3948.2
52.5°	4037.0	4079.0	4174.9	4404.6	4673.8	4883.1	4777.0	4768.0	4753.0	4787.2	4381.2
55°	4144.3	4186.9	4312.2	4650.5	5114.0	5454.0	5459.4	5421.0	5322.1	5297.5	4786.0
57.5°	4078.4	4086.8	4265.5	4717.6	5358.1	5861.2	6037.5	5999.1	5816.2	5723.3	5143.4
60°	3665.8	3683.2	3932.1	4463.4	5251.9	5994.3	6420.7	6403.3	6203.0	6098.1	5421.6
62.5°	2934.8	2985.2	3241.2	3833.7	4758.4	5770.0	6576.0	6625.2	6469.3	6324.7	5509.2
63°	2800.5	2784.3	3054.7	3650.2	4627.7	5659.1	6578.4	6640.8	6481.3	6346.3	5485.2
65°	2073.1	2121.6	2297.3	2878.4	3851.1	5142.8	6430.3	6540.6	6436.9	6251.0	5219.5
67.5°	1164.0	1161.6	1355.9	1883.6	2695.5	4034.0	5814.4	6047.7	6026.1	5609.3	4326.6
70°	569.7	578.7	658.4	976.3	1563.3	2783.1	4831.6	5083.4	5091.2	4405.8	2991.8
72.5°	257.9	262.1	319.0	475.5	803.6	1481.8	3329.4	3569.8	3525.5	2807.7	1652.1
75°	136.1	145.1	175.7	239.3	387.4	611.1	1811.0	2043.7	1950.7	1282.7	608.1
77.5°	100.7	103.7	119.3	152.3	207.5	238.1	781.4	929.5	870.7	464.1	201.5
80°	73.8	76.2	88.8	107.9	130.7	121.1	294.4	337.6	302.8	157.7	61.8
82.5°	45.0	45.6	64.8	80.4	82.2	67.8	97.1	104.3	109.1	88.8	33.6
85°	16.2	20.4	43.8	58.2	48.6	34.2	40.8	45.0	49.2	56.4	19.8
87.5°	1.8	2.4	21.0	28.2	13.8	12.6	15.0	16.8	18.0	21.0	9.6
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°	891.7	891.7	891.7	891.7	891.7	891.7	891.7	891.7	891.7	891.7	891.7
2.5°	897.1	899.5	897.7	894.7	894.1	892.3	888.7	888.7	888.7	889.9	888.7
5°	910.3	912.1	907.9	901.9	895.3	886.9	877.9	872.5	871.9	870.7	867.7
7.5°	935.5	937.9	928.3	913.9	895.9	875.5	856.3	838.3	829.9	823.3	823.3
10°	972.1	974.5	955.3	929.5	893.5	852.1	806.6	765.2	732.8	717.8	714.2
12.5°	1015.8	1017.0	985.3	940.3	880.9	801.2	704.0	613.5	550.5	521.7	518.7
15°	1063.8	1055.4	1013.4	944.5	844.9	696.2	528.3	417.4	352.0	332.8	340.0
17.5°	1112.4	1096.8	1035.0	937.9	764.0	528.3	355.0	284.8	264.5	259.1	259.1
20°	1158.0	1136.4	1050.6	909.1	623.7	364.0	263.3	246.5	242.9	239.3	239.9
22.5°	1203.5	1170.6	1064.4	844.9	464.7	260.3	235.7	230.3	225.5	220.7	220.1
25°	1247.9	1202.3	1069.8	726.2	316.6	223.7	215.3	208.1	198.5	193.1	191.9
27.5°	1294.1	1240.7	1066.2	576.3	230.9	200.3	191.9	181.7	170.3	160.7	160.7
30°	1382.8	1313.9	1053.6	414.4	194.3	176.3	165.5	149.3	136.7	127.1	126.5
32.5°	1504.0	1409.2	1010.4	291.4	172.7	155.3	139.1	121.1	107.9	100.7	100.7
35°	1611.9	1505.2	929.5	214.7	155.3	134.9	115.1	97.7	87.6	82.8	81.0
37.5°	1776.2	1645.5	818.0	174.5	138.5	116.9	96.5	80.4	72.0	68.4	68.4
40°	2022.7	1817.0	681.2	152.9	122.3	99.5	80.4	67.8	61.2	57.0	57.0
42.5°	2328.5	2026.9	542.7	137.3	107.3	85.8	67.2	57.6	51.6	48.6	48.0
45°	2713.5	2248.2	418.0	122.9	95.3	73.2	57.0	48.6	42.6	40.8	41.4
47.5°	3115.3	2443.1	323.8	110.3	82.8	61.8	48.6	42.0	37.8	35.4	35.4
50°	3458.3	2577.4	245.9	95.9	73.2	52.2	42.6	37.8	34.2	33.0	32.4
52.5°	3745.0	2616.4	188.3	83.4	64.2	45.0	37.8	34.2	31.2	29.4	29.4
55°	3989.0	2582.2	147.5	70.2	54.0	39.0	33.6	30.6	27.0	25.2	24.6
57.5°	4131.7	2472.4	112.7	58.2	43.8	32.4	29.4	25.8	21.6	18.6	18.6
60°	4203.7	2312.9	86.4	48.0	33.6	25.8	24.0	19.2	15.0	12.6	12.0
62.5°	4117.3	2101.3	65.4	37.8	25.2	19.2	16.2	13.8	9.6	7.2	7.2
63°	4064.0	2040.1	63.0	36.0	23.4	18.0	15.0	12.6	8.4	6.6	6.0
65°	3704.8	1773.2	51.6	28.8	18.6	12.6	10.2	9.0	6.0	3.0	2.4
67.5°	2942.0	1356.5	40.8	21.6	13.2	9.0	6.0	5.4	1.8	0.0	0.0
70°	1989.1	876.1	31.8	15.6	9.0	5.4	3.0	2.4	0.6	0.0	0.0
72.5°	1037.4	449.2	24.6	11.4	5.4	3.6	1.8	0.6	0.0	0.0	0.0
75°	367.0	152.9	18.0	7.2	3.6	1.8	0.6	0.0	0.0	0.0	0.0
77.5°	110.9	57.0	11.4	5.4	2.4	1.2	0.0	0.0	0.0	0.0	0.0
80°	39.0	21.0	6.6	3.6	1.8	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	19.2	10.2	4.2	3.0	1.8	0.6	0.0	0.0	0.0	0.0	0.0
85°	10.8	6.6	3.6	3.0	1.8	1.2	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	4.8	3.6	3.0	2.4	1.2	0.6	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)