

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: P459275

Luminaire Tested: **GALN-SA7C-735-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459275
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-SA7C-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA 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: 37734 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

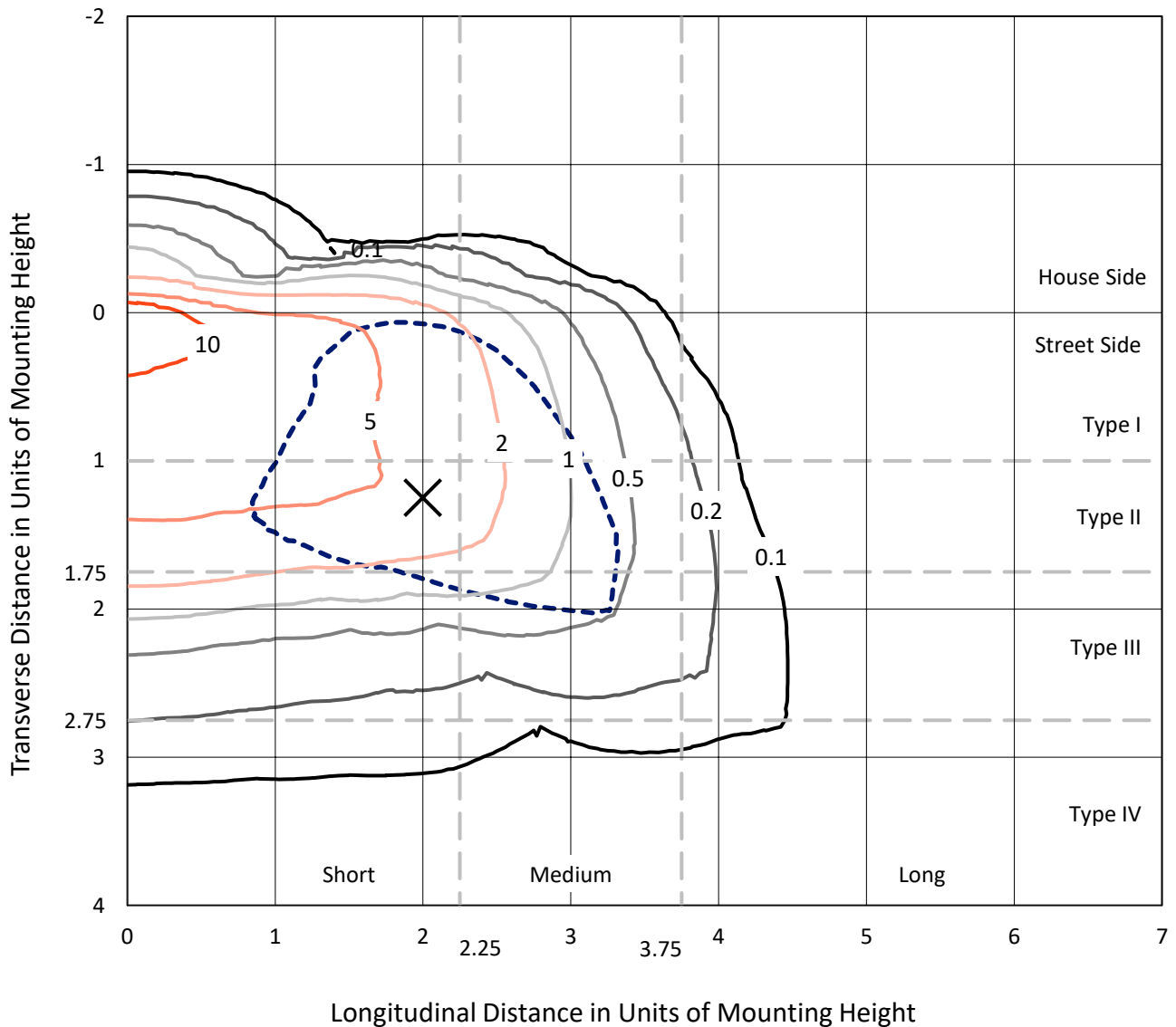
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

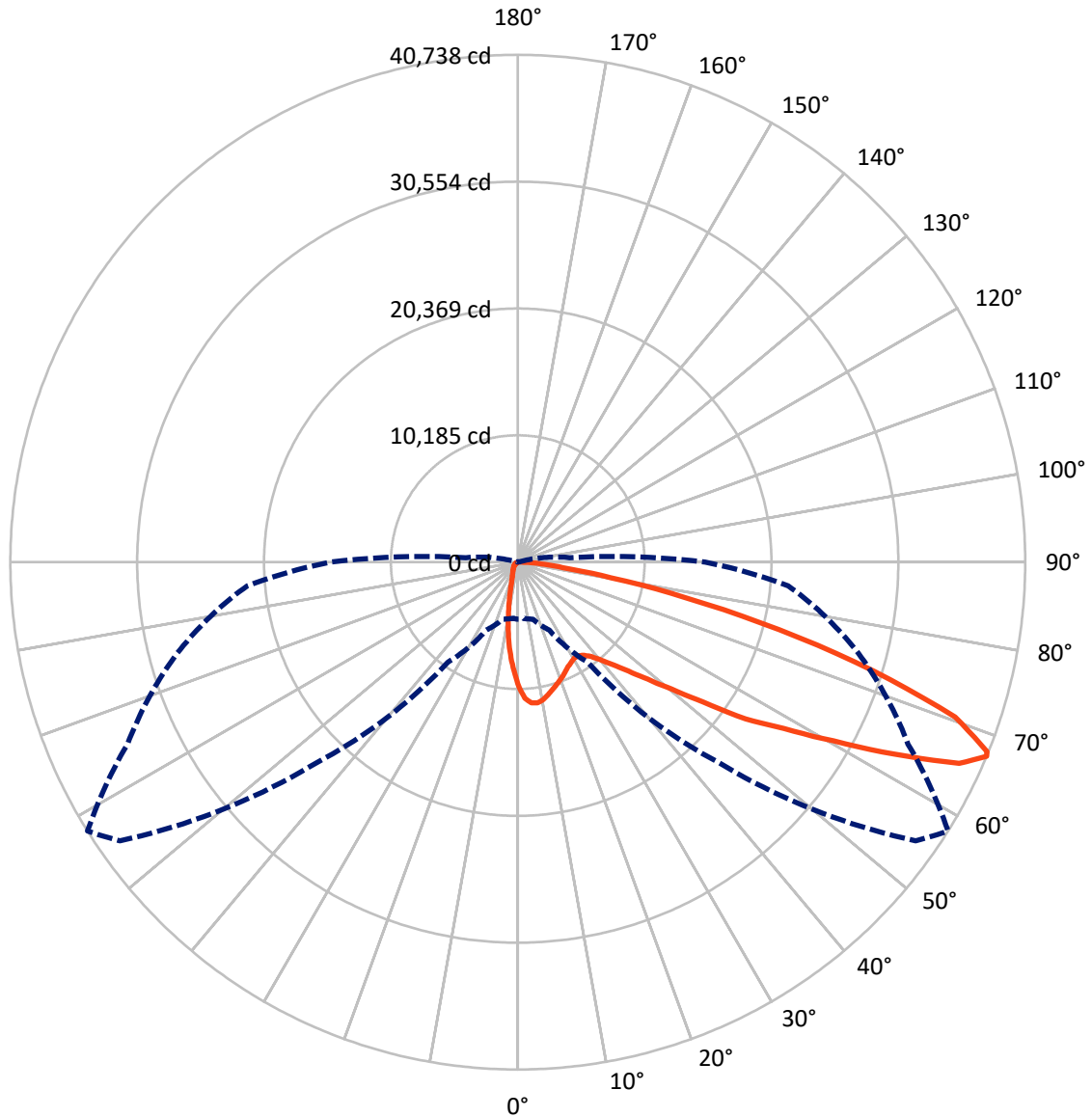
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.8 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	2723.1	0.0	2723.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	35010.9	0.0	35010.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	37734.0	0.0	37734.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	811.7	2.2
10°-20°	1753.1	4.6
20°-30°	2375.6	6.3
30°-40°	3294.8	8.7
40°-50°	5254.8	13.9
50°-60°	9083.4	24.1
60°-70°	10376.1	27.5
70°-80°	4325.9	11.5
80°-90°	458.7	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°	37734.0	100.0
0°-180°	37734.0	100.0

Coefficient of Utilization

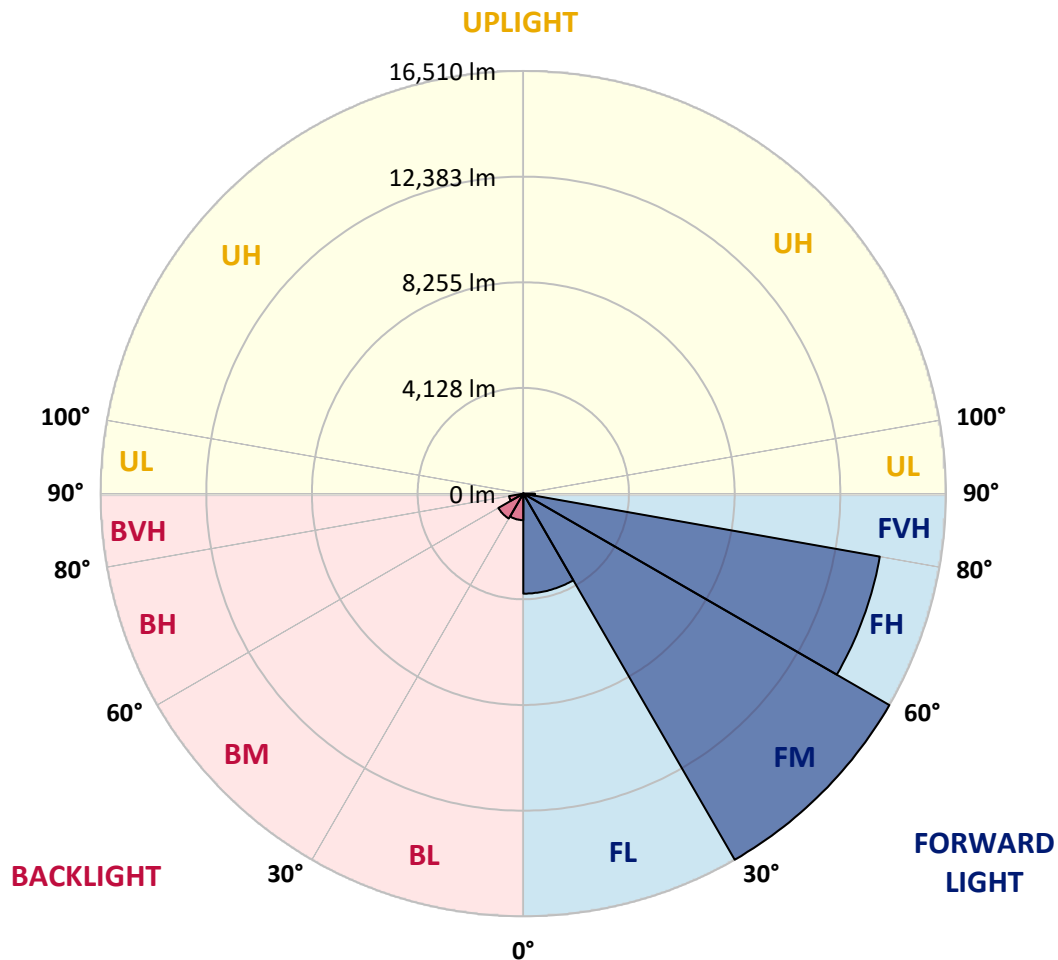


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3906.4	10.4			
FM (30°-60°)	16510.2	43.8			
FH (60°-80°)	14139.0	37.5			G5
FVH (80°-90°)	455.3	1.2			G3/500
BL (0°-30°)	1034.0	2.7	B3/2500		
BM (30°-60°)	1122.8	3.0	B2/2500		
BH (60°-80°)	563.0	1.5	B2/1000		G2/1000
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10002.9	10002.9	10002.9	10002.9	10002.9	10002.9	10002.9	10002.9	10002.9	10002.9	10002.9
2.5°	11609.2	11626.8	11561.2	11508.3	11372.1	11225.9	11031.7	10928.3	10751.8	10446.7	10108.8
5°	11881.5	11904.2	11894.1	11881.5	11828.5	11687.3	11440.2	11349.4	11089.7	10593.0	9982.8
7.5°	11276.3	11359.5	11369.6	11467.9	11561.2	11573.9	11480.6	11412.5	11172.9	10590.5	9758.3
10°	10474.5	10529.9	10610.6	10724.1	10948.5	11135.1	11225.9	11215.8	11077.1	10512.3	9496.1
12.5°	9665.1	9695.3	9818.9	10013.0	10287.9	10605.6	10847.7	10895.6	10898.1	10419.0	9276.7
15°	8969.1	8956.5	9052.3	9276.7	9662.5	10060.9	10494.6	10570.3	10691.3	10328.2	9072.5
17.5°	8374.0	8439.6	8454.7	8701.8	9057.4	9574.3	10126.5	10260.1	10502.2	10250.0	8903.5
20°	8005.9	8041.2	8074.0	8212.6	8532.9	9077.5	9781.0	9965.1	10325.7	10179.4	8714.4
22.5°	7897.5	7920.1	7892.4	7935.3	8162.2	8646.4	9405.3	9649.9	10156.8	10113.9	8560.6
25°	7980.7	8003.4	7937.8	7887.4	7965.5	8295.9	9042.2	9339.8	10020.6	10101.3	8444.6
27.5°	8182.4	8225.3	8134.5	8043.7	7998.3	8106.7	8757.3	9102.7	9927.3	10161.8	8391.7
30°	8497.6	8522.8	8454.7	8343.8	8240.4	8132.0	8608.5	8938.8	9902.1	10303.0	8386.6
32.5°	8840.5	8893.5	8855.6	8782.5	8648.9	8391.7	8651.4	8943.9	9962.6	10507.2	8449.7
35°	9264.1	9324.6	9359.9	9344.8	9173.4	8853.1	8923.7	9170.8	10124.0	10883.0	8621.1
37.5°	9680.2	9733.1	9932.3	10000.4	9849.1	9546.5	9453.2	9617.1	10479.5	11374.7	8931.3
40°	10156.8	10227.4	10507.2	10767.0	10693.8	10376.1	10204.7	10340.8	11024.2	12116.0	9518.8
42.5°	10613.1	10739.2	11165.4	11624.3	11692.4	11336.8	11223.4	11268.7	11831.1	13182.6	10338.3
45°	11261.2	11379.7	11929.4	12552.2	12872.4	12595.1	12479.1	12471.5	12938.0	14682.9	11667.2
47.5°	12196.7	12302.6	12950.6	13565.9	14135.7	14173.6	13954.2	14029.8	14329.9	16437.9	13296.1
50°	13344.0	13593.6	14019.7	14660.2	15421.7	16037.0	16105.1	16004.2	16261.4	18470.3	15252.8
52.5°	15010.7	15106.5	15497.4	16024.4	16917.0	17960.9	18770.3	18631.6	18550.9	20406.8	17229.7
55°	16253.8	16382.4	16990.1	17713.8	19022.5	20399.2	22154.2	22202.1	21183.4	22267.7	19163.7
57.5°	15878.1	16074.8	16995.2	18450.1	21327.2	23843.7	25149.8	25182.6	23619.2	24075.6	21347.3
60°	13949.1	14042.4	15361.2	17302.8	21523.8	27575.5	29398.6	29133.8	26097.9	26097.9	23276.3
62.5°	9892.0	10038.2	11107.4	13964.3	19438.5	28871.6	34487.1	33939.9	29512.1	28031.9	24426.1
65°	6321.5	6180.3	6888.8	8815.3	14481.2	26957.8	38917.4	38950.2	32724.5	28806.0	23798.3
67°	4579.1	4523.6	4727.9	6026.5	9818.9	22661.1	39010.7	40738.0	34570.3	28316.9	21791.1
67.5°	4188.3	4231.1	4379.9	5436.4	8921.2	20621.1	38587.1	40632.0	34986.3	28021.8	21064.9
70°	3174.6	3101.5	3262.9	3845.3	5348.2	13008.6	33193.5	37265.8	34469.4	25094.3	16831.3
72.5°	2334.9	2327.4	2551.8	3144.4	4117.7	6929.2	24917.8	29880.2	28160.5	19108.2	10598.0
75°	1576.0	1646.6	2004.6	2627.4	3731.9	4493.4	16987.6	21677.7	19549.5	10850.2	4332.0
77.5°	897.7	902.7	1291.0	2110.5	3351.1	3615.9	10066.0	13810.5	10348.4	3608.3	1286.0
80°	388.3	426.1	640.5	1533.1	2778.7	3202.4	5771.8	7589.8	4185.8	764.0	416.1
82.5°	143.7	168.9	282.4	943.1	2027.3	2637.5	3487.3	3623.4	1419.6	269.8	259.7
85°	0.0	5.0	103.4	441.3	1056.5	1177.6	2329.9	2148.3	627.9	128.6	168.9
87.5°	0.0	0.0	0.0	45.4	138.7	438.7	723.7	806.9	151.3	45.4	40.3
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°	10002.9	10002.9	10002.9	10002.9	10002.9	10002.9	10002.9	10002.9	10002.9	10002.9	10002.9
2.5°	9927.3	9763.4	9352.4	8941.4	8636.3	8381.6	7998.3	7789.0	7678.1	7514.2	7524.3
5°	9677.7	9344.8	8621.1	7872.2	7267.1	6677.0	5971.0	5686.1	5446.5	5310.4	5219.6
7.5°	9307.0	8815.3	7743.6	6745.1	5814.7	4783.4	4009.2	3492.3	3144.4	3015.8	2892.2
10°	8901.0	8247.9	6853.5	5469.2	4178.2	3114.1	2458.5	1984.4	1815.5	1659.2	1674.3
12.5°	8525.3	7731.0	6036.6	4316.9	2927.5	1979.4	1543.2	1349.0	1293.5	1275.9	1275.9
15°	8217.7	7236.8	5159.1	3245.2	2007.1	1422.1	1235.6	1182.6	1162.4	1157.4	1157.4
17.5°	7889.9	6767.8	4367.3	2398.0	1460.0	1190.2	1127.1	1091.8	1084.3	1079.2	1079.2
20°	7597.4	6296.3	3615.9	1785.2	1180.1	1071.7	1031.3	1008.6	1001.1	996.0	998.5
22.5°	7320.0	5877.7	2909.9	1349.0	1038.9	975.8	935.5	912.8	897.7	885.1	887.6
25°	7072.9	5474.3	2340.0	1104.4	935.5	880.0	839.7	806.9	774.1	759.0	756.5
27.5°	6898.9	5121.2	1823.1	945.6	842.2	781.7	731.2	690.9	648.0	625.3	620.3
30°	6755.2	4763.2	1442.3	834.6	748.9	690.9	627.9	569.9	524.5	501.8	491.7
32.5°	6661.9	4422.8	1137.2	743.9	670.7	600.1	529.5	471.5	421.1	398.4	393.4
35°	6646.8	4137.8	930.4	668.2	600.1	524.5	451.4	388.3	345.5	322.8	317.7
37.5°	6755.2	3918.5	779.2	607.7	542.1	458.9	378.2	320.2	282.4	264.8	262.2
40°	7045.2	3779.8	675.8	557.3	489.2	398.4	322.8	272.3	234.5	216.9	216.9
42.5°	7597.4	3784.8	607.7	509.4	436.2	340.4	274.8	226.9	194.2	179.0	174.0
45°	8459.8	3956.3	549.7	461.4	385.8	295.0	234.5	186.6	153.8	141.2	141.2
47.5°	9614.6	4296.7	499.3	413.5	340.4	252.2	199.2	151.3	123.6	110.9	110.9
50°	11125.0	4843.9	456.4	373.2	302.6	216.9	161.4	123.6	95.8	85.7	83.2
52.5°	12703.5	5519.6	406.0	337.9	259.7	184.1	131.1	95.8	73.1	65.6	63.0
55°	14445.9	6180.3	358.1	302.6	211.8	153.8	103.4	75.6	53.0	45.4	45.4
57.5°	16203.4	6828.3	300.1	252.2	166.4	113.5	80.7	55.5	35.3	27.7	27.7
60°	17691.1	7037.6	254.7	204.2	126.1	80.7	58.0	35.3	20.2	12.6	12.6
62.5°	17895.3	6331.6	214.3	156.3	90.8	55.5	30.3	20.2	7.6	5.0	5.0
65°	16785.9	5143.9	179.0	118.5	60.5	27.7	12.6	7.6	2.5	0.0	0.0
67°	15041.0	4170.6	146.2	88.3	42.9	17.7	7.6	2.5	0.0	0.0	0.0
67.5°	14594.7	3976.5	141.2	83.2	37.8	15.1	5.0	2.5	0.0	0.0	0.0
70°	11452.8	2977.9	100.9	50.4	22.7	10.1	0.0	0.0	0.0	0.0	0.0
72.5°	7118.3	1684.4	73.1	30.3	15.1	5.0	0.0	0.0	0.0	0.0	0.0
75°	2690.5	590.0	50.4	20.2	10.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	837.2	224.4	30.3	15.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	282.4	85.7	20.2	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	174.0	35.3	12.6	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	108.4	15.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.2	5.0	2.5	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)