

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: P457216

Luminaire Tested: **GALN-SA8C-740-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457216
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-SA8C-740-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 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: 46962 lumens
Efficiency: N/A
Efficacy: 109.5 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

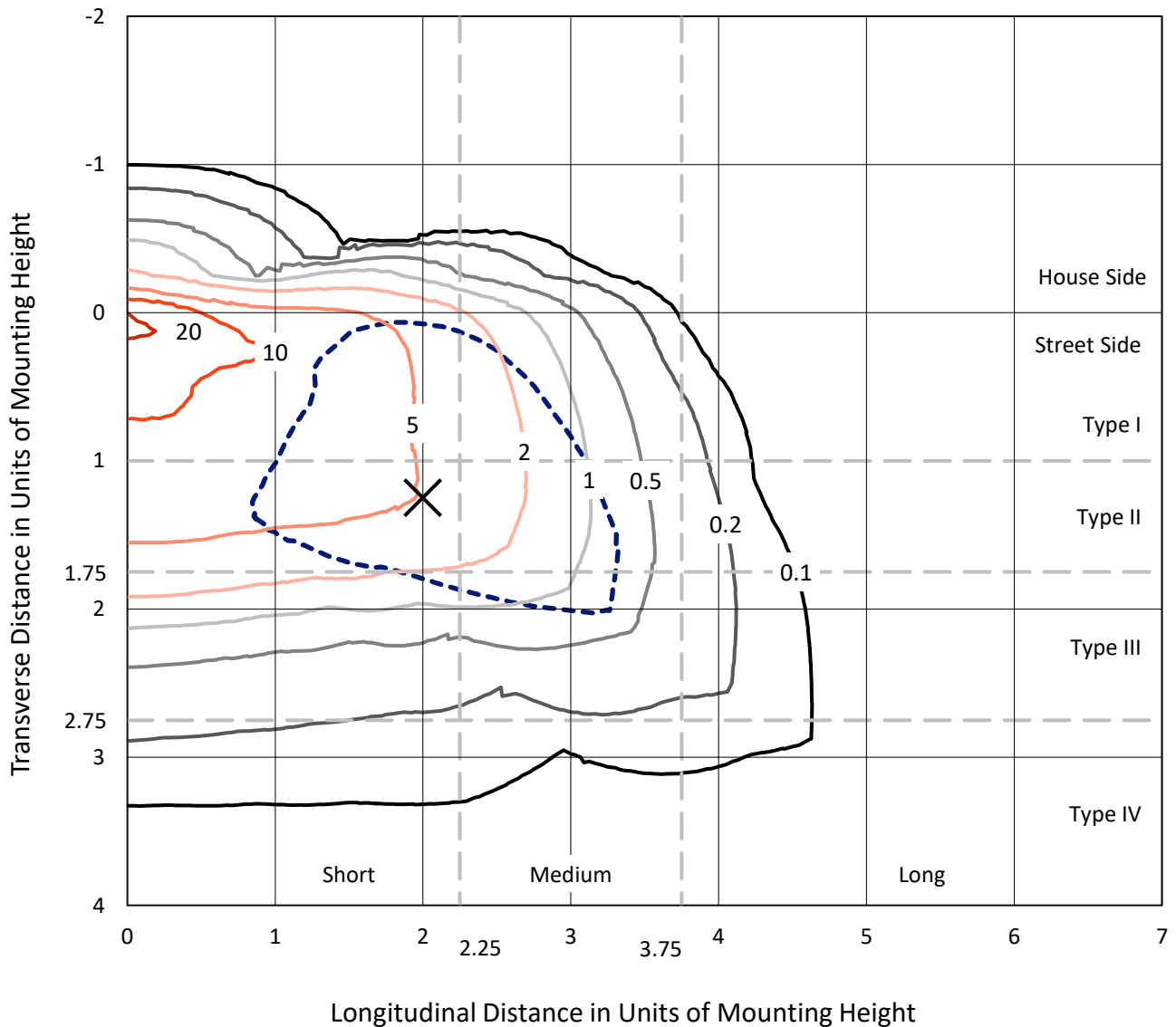
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

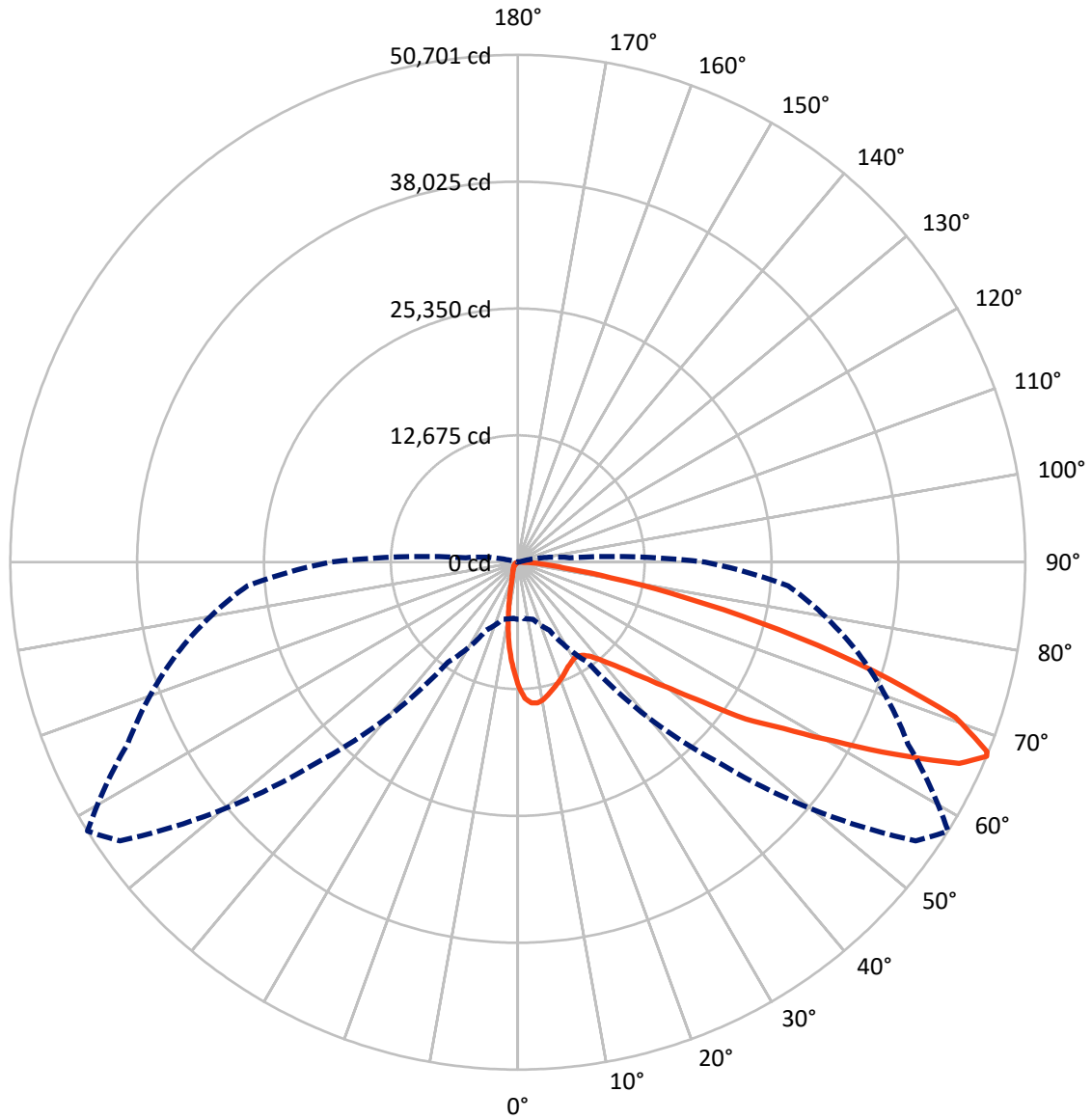
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.1 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	3389.0	0.0	3389.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	43573.0	0.0	43573.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	46962.0	0.0	46962.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1010.2	2.2
10°-20°	2181.8	4.6
20°-30°	2956.5	6.3
30°-40°	4100.6	8.7
40°-50°	6539.9	13.9
50°-60°	11304.8	24.1
60°-70°	12913.6	27.5
70°-80°	5383.8	11.5
80°-90°	570.8	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°	46962.0	100.0
0°-180°	46962.0	100.0

Coefficient of Utilization



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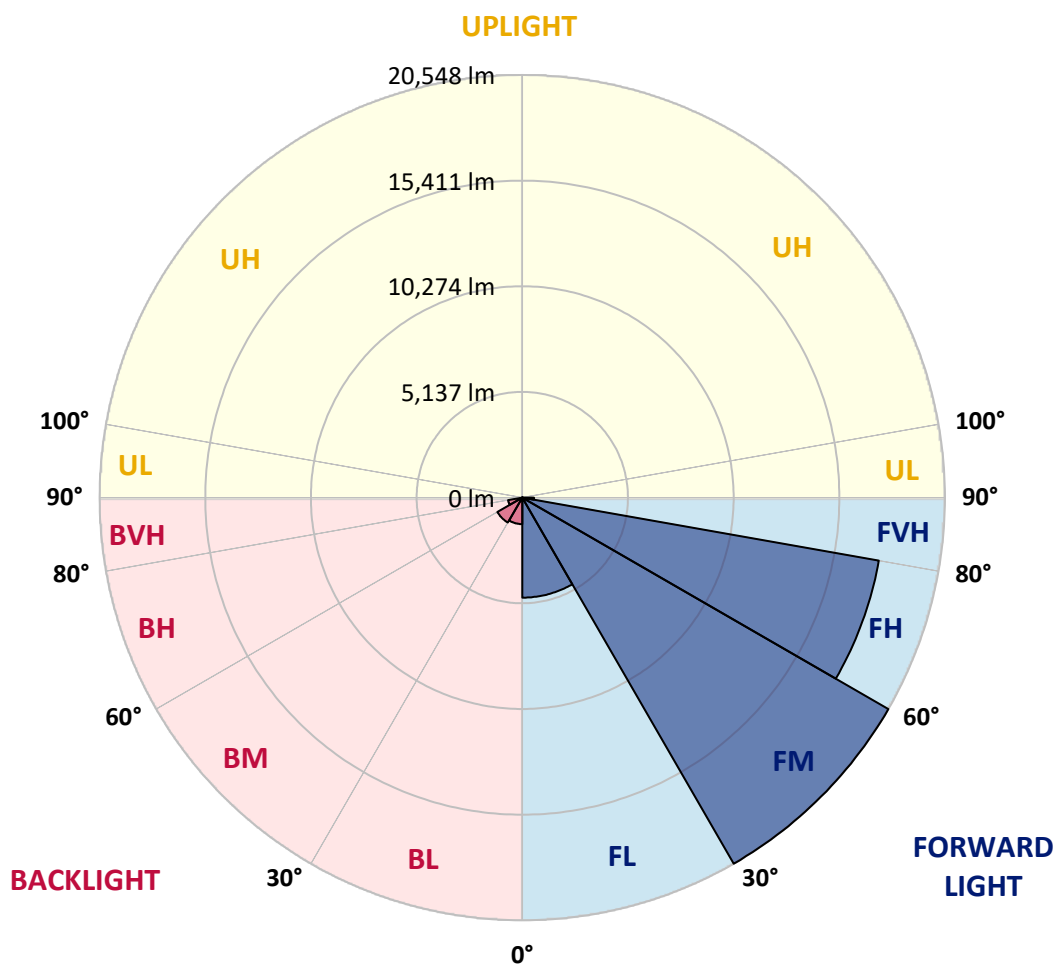
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4861.7	10.4			
FM	(30°-60°)	20547.8	43.8			
FH	(60°-80°)	17596.7	37.5			G5
FVH	(80°-90°)	566.7	1.2			G4/750
BL	(0°-30°)	1286.9	2.7	B3/2500		
BM	(30°-60°)	1397.4	3.0	B2/2500		
BH	(60°-80°)	700.6	1.5	B2/1000		G2/1000
BVH	(80°-90°)	4.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	12449.2	12449.2	12449.2	12449.2	12449.2	12449.2	12449.2	12449.2	12449.2	12449.2	12449.2
2.5°	14448.2	14470.2	14388.6	14322.7	14153.2	13971.2	13729.6	13600.9	13381.2	13001.5	12581.0
5°	14787.1	14815.4	14802.8	14787.1	14721.2	14545.5	14238.0	14125.0	13801.8	13183.5	12424.1
7.5°	14034.0	14137.5	14150.1	14272.5	14388.6	14404.3	14288.2	14203.4	13905.3	13180.4	12144.8
10°	13036.0	13105.1	13205.5	13346.7	13626.0	13858.2	13971.2	13958.7	13786.1	13083.1	11818.4
12.5°	12028.7	12066.3	12220.1	12461.7	12803.8	13199.2	13500.5	13560.1	13563.3	12967.0	11545.4
15°	11162.5	11146.8	11266.1	11545.4	12025.5	12521.4	13061.1	13155.3	13305.9	12854.0	11291.2
17.5°	10421.9	10503.5	10522.3	10829.9	11272.4	11915.7	12603.0	12769.3	13070.6	12756.7	11080.9
20°	9963.7	10007.7	10048.5	10221.1	10619.6	11297.5	12173.0	12402.1	12850.9	12668.9	10845.6
22.5°	9828.8	9857.1	9822.5	9875.9	10158.3	10760.8	11705.4	12009.8	12640.6	12587.3	10654.2
25°	9932.4	9960.6	9879.0	9816.3	9913.5	10324.6	11253.5	11623.9	12471.2	12571.6	10509.8
27.5°	10183.4	10236.8	10123.8	10010.8	9954.3	10089.3	10898.9	11328.9	12355.0	12646.9	10443.9
30°	10575.7	10607.1	10522.3	10384.3	10255.6	10120.7	10713.8	11124.9	12323.7	12822.6	10437.6
32.5°	11002.5	11068.4	11021.3	10930.3	10764.0	10443.9	10767.1	11131.2	12399.0	13076.8	10516.1
35°	11529.7	11605.0	11649.0	11630.1	11416.7	11018.2	11106.1	11413.6	12599.8	13544.4	10729.5
37.5°	12047.5	12113.4	12361.3	12446.1	12257.8	11881.2	11765.1	11969.1	13042.3	14156.4	11115.5
40°	12640.6	12728.5	13076.8	13400.1	13309.1	12913.6	12700.3	12869.7	13720.2	15079.0	11846.7
42.5°	13208.6	13365.5	13895.9	14467.1	14551.8	14109.3	13968.1	14024.6	14724.4	16406.5	12866.6
45°	14015.2	14162.6	14846.8	15621.9	16020.5	15675.3	15530.9	15521.5	16102.0	18273.7	14520.4
47.5°	15179.4	15311.2	16117.7	16883.5	17592.7	17639.8	17366.7	17460.9	17834.3	20457.9	16547.7
50°	16607.3	16918.0	17448.3	18245.4	19193.2	19958.9	20043.6	19918.1	20238.2	22987.2	18982.9
52.5°	18681.6	18800.9	19287.3	19943.2	21054.1	22353.3	23360.7	23188.1	23087.7	25397.4	21443.2
55°	20228.8	20388.8	21145.1	22045.8	23674.5	25387.9	27572.1	27631.8	26363.9	27713.3	23850.2
57.5°	19761.2	20006.0	21151.4	22962.1	26542.8	29674.7	31300.3	31341.1	29395.4	29963.4	26567.9
60°	17360.5	17476.6	19117.8	21534.3	26787.6	34319.2	36588.1	36258.6	32480.3	32480.3	28968.6
62.5°	12311.1	12493.1	13823.7	17379.3	24192.3	35932.3	42921.0	42240.0	36729.4	34887.2	30399.6
65°	7867.4	7691.7	8573.5	10971.1	18022.6	33550.4	48434.8	48475.6	40727.4	35850.7	29618.2
67°	5699.0	5629.9	5884.1	7500.3	12220.1	28202.9	48550.9	50700.6	43024.6	35241.9	27120.2
67.5°	5212.5	5265.9	5451.0	6765.9	11102.9	25664.1	48023.7	50568.8	43542.4	34874.7	26216.4
70°	3951.0	3860.0	4060.8	4785.7	6656.1	16189.9	41311.1	46379.3	42899.0	31231.3	20947.4
72.5°	2906.0	2896.5	3175.8	3913.3	5124.7	8623.7	31011.6	37187.5	35047.3	23781.2	13189.8
75°	1961.4	2049.2	2494.9	3270.0	4644.5	5592.3	21142.0	26979.0	24330.4	13503.6	5391.4
77.5°	1117.2	1123.5	1606.8	2626.7	4170.7	4500.2	12527.6	17187.9	12879.1	4490.7	1600.5
80°	483.3	530.4	797.1	1908.0	3458.3	3985.5	7183.3	9445.9	5209.4	950.9	517.8
82.5°	178.9	210.3	351.5	1173.7	2523.1	3282.5	4340.1	4509.6	1766.8	335.8	323.2
85°	0.0	6.3	128.7	549.2	1314.9	1465.5	2899.7	2673.7	781.4	160.0	210.3
87.5°	0.0	0.0	0.0	56.5	172.6	546.0	900.7	1004.2	188.3	56.5	50.2
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°	12449.2	12449.2	12449.2	12449.2	12449.2	12449.2	12449.2	12449.2	12449.2	12449.2	12449.2
2.5°	12355.0	12151.1	11639.5	11128.0	10748.3	10431.3	9954.3	9693.9	9555.8	9351.8	9364.4
5°	12044.4	11630.1	10729.5	9797.4	9044.3	8309.9	7431.2	7076.6	6778.5	6609.0	6496.1
7.5°	11583.1	10971.1	9637.4	8394.7	7236.7	5953.1	4989.7	4346.4	3913.3	3753.3	3599.5
10°	11077.8	10265.0	8529.6	6806.7	5200.0	3875.7	3059.7	2469.8	2259.5	2064.9	2083.8
12.5°	10610.2	9621.7	7512.8	5372.6	3643.4	2463.5	1920.6	1678.9	1609.9	1587.9	1587.9
15°	10227.4	9006.6	6420.7	4038.8	2498.0	1769.9	1537.7	1471.8	1446.7	1440.4	1440.4
17.5°	9819.4	8422.9	5435.3	2984.4	1817.0	1481.2	1402.8	1358.8	1349.4	1343.1	1343.1
20°	9455.4	7836.1	4500.2	2221.8	1468.7	1333.7	1283.5	1255.3	1245.9	1239.6	1242.7
22.5°	9110.2	7315.1	3621.5	1678.9	1292.9	1214.5	1164.3	1136.0	1117.2	1101.5	1104.6
25°	8802.6	6813.0	2912.2	1374.5	1164.3	1095.2	1045.0	1004.2	963.4	944.6	941.5
27.5°	8586.1	6373.7	2268.9	1176.8	1048.2	972.8	910.1	859.9	806.5	778.3	772.0
30°	8407.2	5928.0	1795.0	1038.7	932.0	859.9	781.4	709.2	652.7	624.5	611.9
32.5°	8291.1	5504.4	1415.3	925.8	834.8	746.9	659.0	586.8	524.1	495.8	489.6
35°	8272.3	5149.8	1158.0	831.6	746.9	652.7	561.7	483.3	429.9	401.7	395.4
37.5°	8407.2	4876.7	969.7	756.3	674.7	571.2	470.7	398.5	351.5	329.5	326.4
40°	8768.1	4704.1	841.0	693.5	608.8	495.8	401.7	338.9	291.9	269.9	269.9
42.5°	9455.4	4710.4	756.3	633.9	542.9	423.7	342.1	282.4	241.6	222.8	216.5
45°	10528.6	4923.8	684.1	574.3	480.1	367.2	291.9	232.2	191.4	175.7	175.7
47.5°	11965.9	5347.5	621.4	514.7	423.7	313.8	247.9	188.3	153.8	138.1	138.1
50°	13845.7	6028.5	568.0	464.5	376.6	269.9	200.8	153.8	119.3	106.7	103.6
52.5°	15810.2	6869.5	505.2	420.5	323.2	229.1	163.2	119.3	91.0	81.6	78.5
55°	17978.7	7691.7	445.6	376.6	263.6	191.4	128.7	94.1	65.9	56.5	56.5
57.5°	20166.0	8498.2	373.4	313.8	207.1	141.2	100.4	69.0	43.9	34.5	34.5
60°	22017.5	8758.7	317.0	254.2	156.9	100.4	72.2	43.9	25.1	15.7	15.7
62.5°	22271.7	7880.0	266.7	194.6	113.0	69.0	37.7	25.1	9.4	6.3	6.3
65°	20890.9	6401.9	222.8	147.5	75.3	34.5	15.7	9.4	3.1	0.0	0.0
67°	18719.3	5190.6	182.0	109.8	53.3	22.0	9.4	3.1	0.0	0.0	0.0
67.5°	18163.8	4948.9	175.7	103.6	47.1	18.8	6.3	3.1	0.0	0.0	0.0
70°	14253.7	3706.2	125.5	62.8	28.2	12.6	0.0	0.0	0.0	0.0	0.0
72.5°	8859.1	2096.3	91.0	37.7	18.8	6.3	0.0	0.0	0.0	0.0	0.0
75°	3348.4	734.3	62.8	25.1	12.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1041.9	279.3	37.7	18.8	6.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	351.5	106.7	25.1	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	216.5	43.9	15.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	134.9	18.8	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.1	6.3	3.1	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)