

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: P459284

Luminaire Tested: **GALN-SA7C-735-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459284
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
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-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34101 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

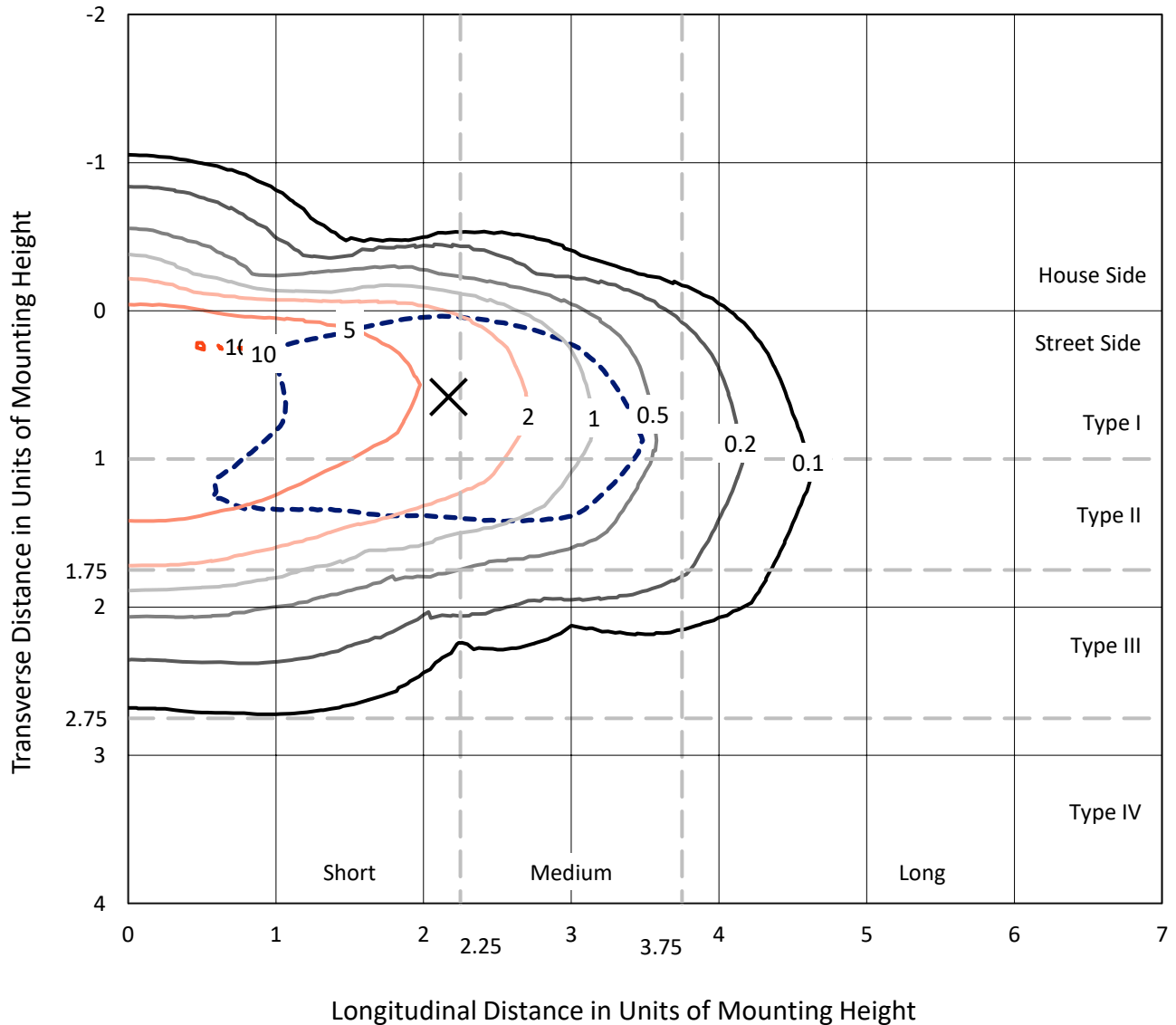
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

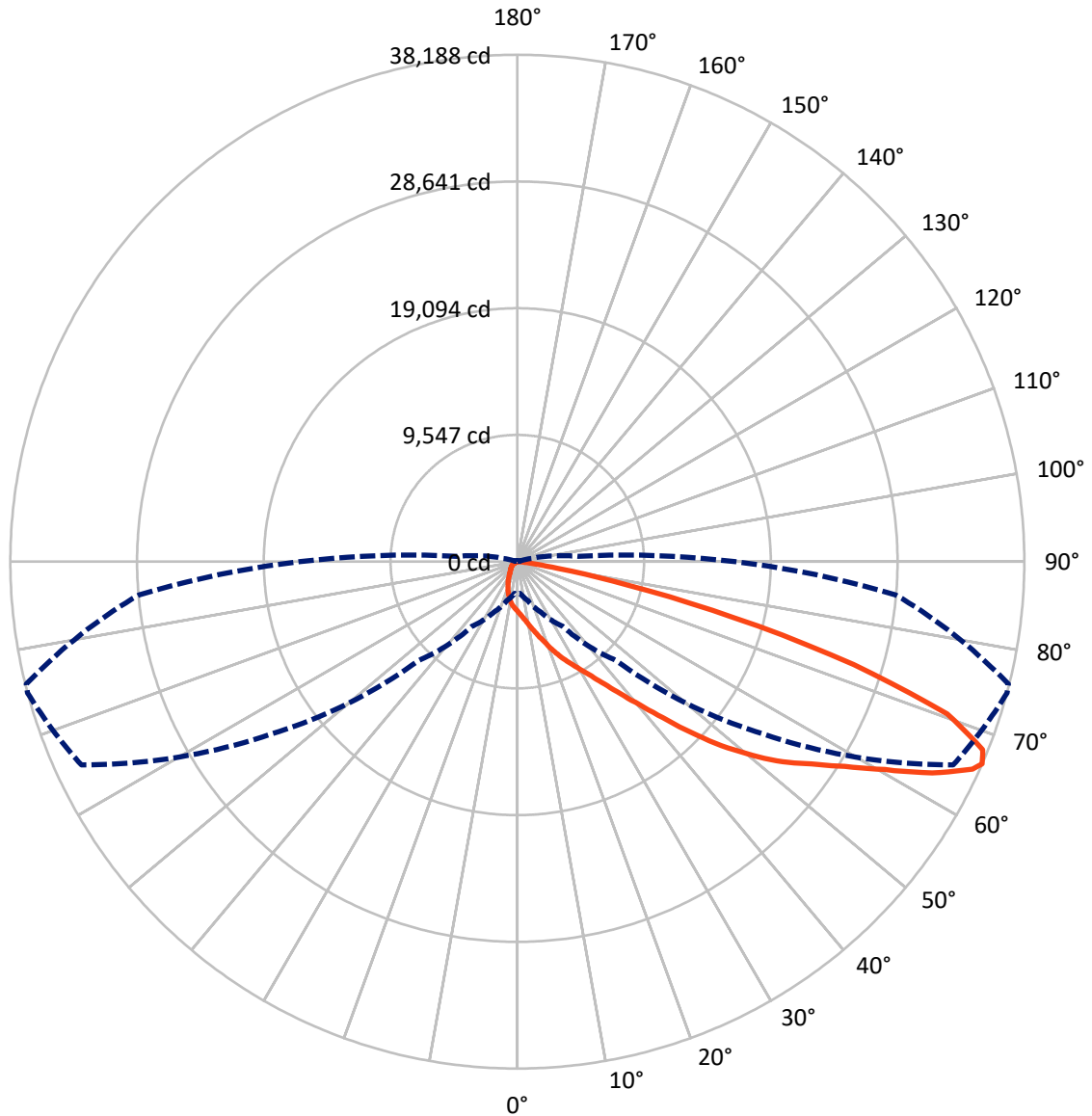
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2105.2	0.0	2105.2
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	31995.8	0.0	31995.8
	% Fixture	93.8	0.0	93.8
Total	Lumens	34101.0	0.0	34101.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.7	1.1
10°-20°	1058.6	3.1
20°-30°	1828.0	5.4
30°-40°	3297.3	9.7
40°-50°	5956.6	17.5
50°-60°	9286.4	27.2
60°-70°	8821.7	25.9
70°-80°	3306.2	9.7
80°-90°	186.5	0.5
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°	34101.0	100.0
0°-180°	34101.0	100.0

Coefficient of Utilization



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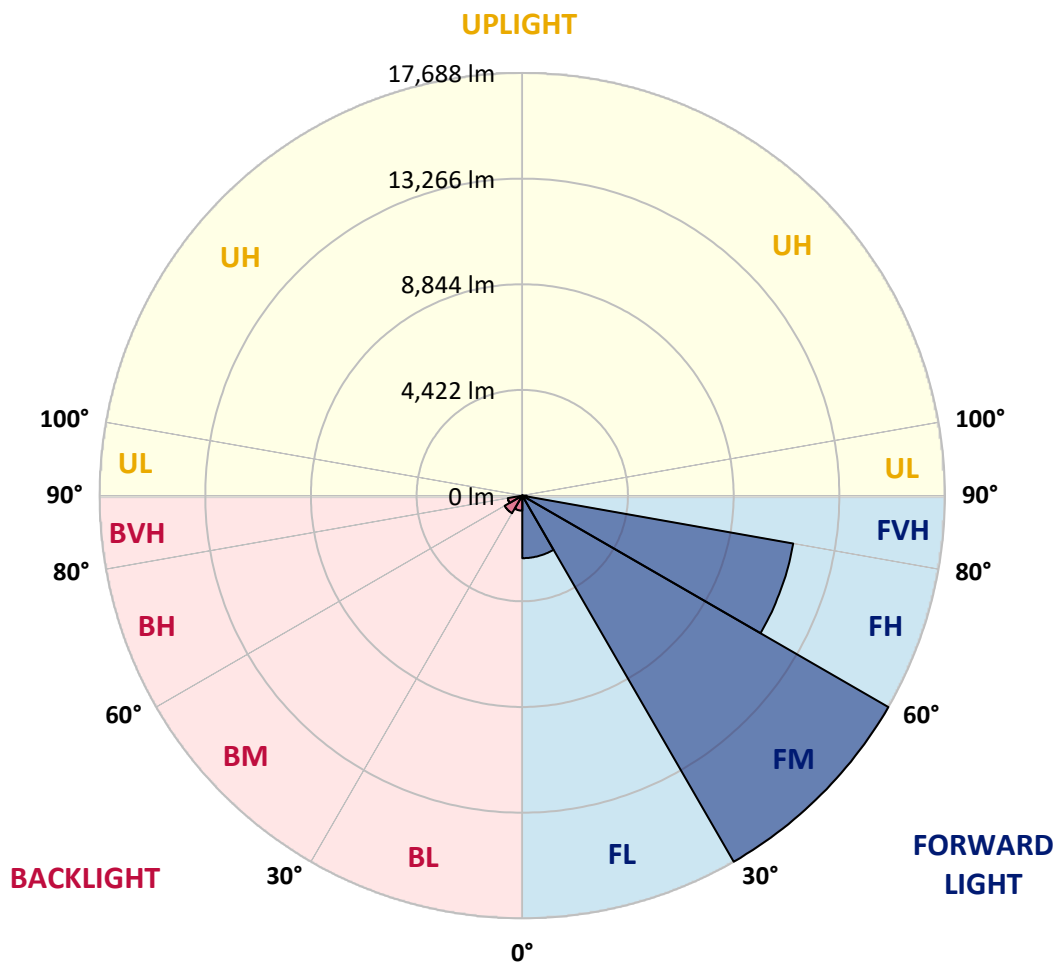
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2617.5	7.7			
FM (30°-60°)	17688.2	51.9			
FH (60°-80°)	11513.1	33.8			G4/12000
FVH (80°-90°)	176.9	0.5			G2/225
BL (0°-30°)	628.7	1.8	B2/1000		
BM (30°-60°)	852.2	2.5	B1/1000		
BH (60°-80°)	614.8	1.8	B2/1000		G2/1000
BVH (80°-90°)	9.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3729.3	3729.3	3729.3	3729.3	3729.3	3729.3	3729.3	3729.3	3729.3	3729.3	3729.3
2.5°	4455.5	4400.0	4417.6	4392.4	4334.4	4248.7	4173.1	4064.6	3956.2	3938.6	3817.5
5°	5043.0	5027.8	5007.7	4934.6	4894.2	4763.1	4606.8	4420.2	4195.8	4155.4	3936.0
7.5°	5443.9	5436.3	5446.4	5408.6	5373.3	5254.8	5088.4	4833.7	4485.7	4463.0	4097.4
10°	5575.0	5595.2	5633.0	5693.5	5749.0	5711.2	5585.1	5267.4	4861.4	4795.9	4281.5
12.5°	5499.4	5522.1	5612.8	5774.2	5953.2	6056.6	6006.2	5774.2	5259.8	5206.9	4488.2
15°	5305.2	5332.9	5461.5	5711.2	6031.4	6323.9	6450.0	6283.5	5723.8	5638.0	4737.9
17.5°	5017.8	5058.1	5242.2	5572.5	6011.2	6515.5	6871.1	6815.6	6218.0	6137.3	5010.2
20°	4800.9	4831.2	4987.5	5365.7	5925.5	6621.4	7272.0	7428.3	6828.2	6689.5	5330.4
22.5°	4944.6	4954.7	5007.7	5234.6	5771.7	6649.2	7625.0	8066.2	7476.2	7352.7	5663.3
25°	5648.1	5547.3	5494.3	5443.9	5738.9	6624.0	7945.2	8731.9	8121.7	7990.6	5993.6
27.5°	6757.6	6712.2	6444.9	6086.9	6018.8	6656.7	8157.0	9362.3	8729.4	8588.2	6316.3
30°	7965.4	7887.2	7723.3	7198.8	6671.9	6888.7	8310.8	9975.0	9448.0	9261.4	6611.3
32.5°	9074.8	9125.3	8880.7	8341.1	7730.9	7382.9	8510.0	10643.2	10272.5	10040.6	6954.3
35°	10368.4	10469.2	10093.5	9576.6	8863.0	8275.5	8898.3	11397.1	11319.0	11026.5	7483.8
37.5°	11682.1	11742.6	11513.1	10786.9	10143.9	9410.2	9629.6	12327.6	12607.4	12357.8	8116.7
40°	12786.5	12869.7	12700.7	12055.2	11369.4	10723.9	10691.1	13341.2	14140.5	13883.3	9059.7
42.5°	13631.2	13694.2	13699.2	13242.9	12625.1	12332.6	12045.2	14634.7	16061.9	15764.3	10154.0
45°	14697.8	14788.5	14735.6	14425.4	13964.0	13911.1	13762.3	16198.0	18361.5	17985.8	11573.6
47.5°	16346.8	16407.3	16276.2	15910.6	15441.6	15524.8	15436.6	17950.5	20706.5	20383.7	13043.7
50°	17491.6	17592.4	17779.0	17925.3	17584.9	17277.2	17015.0	19586.9	22932.9	22643.0	14546.5
52.5°	17479.0	17645.4	18235.4	18971.7	19715.5	19622.2	18868.3	21394.8	25058.6	24700.5	15958.5
55°	16301.4	16624.2	17491.6	18797.7	20857.8	21884.0	21541.1	23487.7	26894.2	26652.1	17594.9
57.5°	13870.7	14067.4	15272.7	17098.2	20219.8	22948.1	24637.5	26324.3	29095.5	28982.0	20136.6
60°	9329.5	9417.8	10968.5	13225.2	17214.2	21886.5	26906.8	29756.1	31806.1	31750.6	23104.4
62.5°	5345.6	5383.4	6508.0	8411.7	12249.4	18548.1	27098.4	33989.7	35056.3	35086.5	26538.7
65°	2877.0	2897.2	3804.9	4937.1	7453.5	13220.2	24367.7	36309.4	37683.6	37741.6	28666.8
66°	2483.7	2387.8	3028.3	4208.4	5930.5	10522.2	22640.4	36226.2	38187.9	38124.9	28591.2
67.5°	1888.6	1974.3	2418.1	3235.1	4395.0	7481.3	18691.8	34615.0	37804.7	37608.0	27428.8
70°	1351.5	1386.8	1722.2	2307.2	2993.0	4105.0	11944.3	28750.0	34360.3	34095.6	23896.1
72.5°	872.4	910.3	1220.4	1669.2	2163.4	2241.6	6687.0	20772.0	26490.8	26452.9	17995.9
75°	622.8	658.1	806.9	1195.2	1626.4	1386.8	3219.9	13999.3	16841.0	16727.6	11132.4
77.5°	451.3	469.0	539.6	781.7	1162.4	993.5	1492.7	7476.2	8383.9	8779.8	4919.4
80°	259.7	274.8	375.7	476.6	786.7	678.3	713.6	3000.6	3093.9	2945.1	1538.1
82.5°	128.6	146.2	224.4	325.3	491.7	456.4	327.8	902.7	953.1	927.9	388.3
85°	30.3	37.8	126.1	214.3	239.5	204.2	158.9	264.8	327.8	320.2	148.8
87.5°	2.5	5.0	45.4	37.8	40.3	68.1	55.5	68.1	105.9	98.3	53.0
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°	3729.3	3729.3	3729.3	3729.3	3729.3	3729.3	3729.3	3729.3	3729.3	3729.3	3729.3
2.5°	3762.1	3714.2	3575.5	3439.3	3325.8	3207.3	3098.9	3035.9	3010.7	2982.9	2995.5
5°	3815.0	3699.0	3419.1	3177.1	2940.1	2738.3	2577.0	2473.6	2423.2	2415.6	2403.0
7.5°	3885.6	3686.4	3252.7	2874.5	2564.4	2339.9	2155.9	2007.1	1961.7	1921.4	1888.6
10°	3971.3	3663.7	3046.0	2556.8	2226.5	1944.1	1702.0	1525.5	1434.7	1409.5	1427.2
12.5°	4062.1	3620.9	2829.1	2264.3	1883.6	1523.0	1298.6	1210.3	1185.1	1175.0	1177.5
15°	4152.9	3567.9	2602.2	1981.9	1500.3	1215.4	1112.0	1089.3	1079.2	1074.2	1069.1
17.5°	4236.1	3482.2	2347.5	1707.0	1215.4	1038.9	1001.0	980.9	960.7	953.1	940.5
20°	4334.4	3383.8	2118.1	1399.4	1028.8	940.5	895.1	857.3	827.0	806.9	804.4
22.5°	4427.7	3257.8	1878.5	1159.9	938.0	844.7	771.6	731.2	695.9	670.7	678.3
25°	4478.2	3104.0	1664.2	1011.1	854.8	748.9	668.2	617.8	579.9	567.3	564.8
27.5°	4478.2	2914.8	1454.9	925.4	779.1	663.2	579.9	532.0	506.8	489.2	491.7
30°	4442.9	2705.6	1260.7	859.8	713.6	587.5	509.3	466.5	446.3	433.7	431.2
32.5°	4415.1	2506.4	1094.3	796.8	645.5	521.9	453.9	421.1	400.9	388.3	388.3
35°	4458.0	2334.9	965.7	733.8	582.5	471.5	411.0	380.7	360.6	350.5	348.0
37.5°	4571.5	2178.6	867.4	665.7	524.5	428.7	380.7	345.4	325.3	312.7	307.6
40°	4851.3	2090.3	794.3	602.6	469.0	393.4	345.4	312.7	287.4	274.8	272.3
42.5°	5300.2	2092.8	723.7	544.6	426.1	363.1	315.2	277.4	249.6	237.0	234.5
45°	5975.9	2188.7	668.2	489.2	388.3	330.3	282.4	242.1	216.8	204.2	204.2
47.5°	6785.3	2375.2	620.3	441.3	353.0	300.1	249.6	209.3	184.1	174.0	174.0
50°	7662.8	2617.3	572.4	390.8	322.8	267.3	214.3	181.5	161.4	153.8	153.8
52.5°	8557.9	2909.8	524.5	350.5	290.0	232.0	184.1	161.4	143.7	138.7	136.2
55°	9732.9	3283.0	474.0	307.6	254.7	199.2	163.9	141.2	121.0	113.5	110.9
57.5°	11540.9	3845.3	418.6	269.8	209.3	166.4	141.2	118.5	95.8	83.2	80.7
60°	13721.9	4531.1	360.6	237.0	168.9	136.2	113.5	90.8	70.6	55.5	53.0
62.5°	15764.3	4967.3	305.1	199.2	133.6	103.4	80.7	68.1	50.4	35.3	32.8
65°	16667.0	4821.1	252.1	161.4	105.9	73.1	53.0	47.9	30.3	15.1	12.6
66°	16367.0	4604.2	232.0	146.2	95.8	63.0	45.4	40.3	22.7	7.6	7.6
67.5°	15481.9	4092.4	201.7	126.1	83.2	50.4	35.3	30.3	12.6	2.5	0.0
70°	13265.6	3310.7	158.9	93.3	60.5	35.3	20.2	15.1	7.6	0.0	0.0
72.5°	10189.3	2466.0	126.1	70.6	42.9	20.2	10.1	5.0	7.6	0.0	0.0
75°	6243.2	1409.5	98.3	53.0	27.7	12.6	7.6	0.0	7.6	2.5	0.0
77.5°	2771.1	632.9	65.6	35.3	20.2	10.1	5.0	0.0	5.0	2.5	0.0
80°	701.0	206.8	37.8	25.2	15.1	7.6	2.5	0.0	5.0	5.0	2.5
82.5°	191.6	75.6	27.7	20.2	12.6	7.6	2.5	0.0	5.0	5.0	5.0
85°	75.6	35.3	25.2	20.2	15.1	7.6	2.5	0.0	5.0	5.0	5.0
87.5°	35.3	25.2	25.2	22.7	17.7	7.6	2.5	0.0	5.0	2.5	5.0
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)