

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: P456834

Luminaire Tested: **GALN-SA8A-827-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22241 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

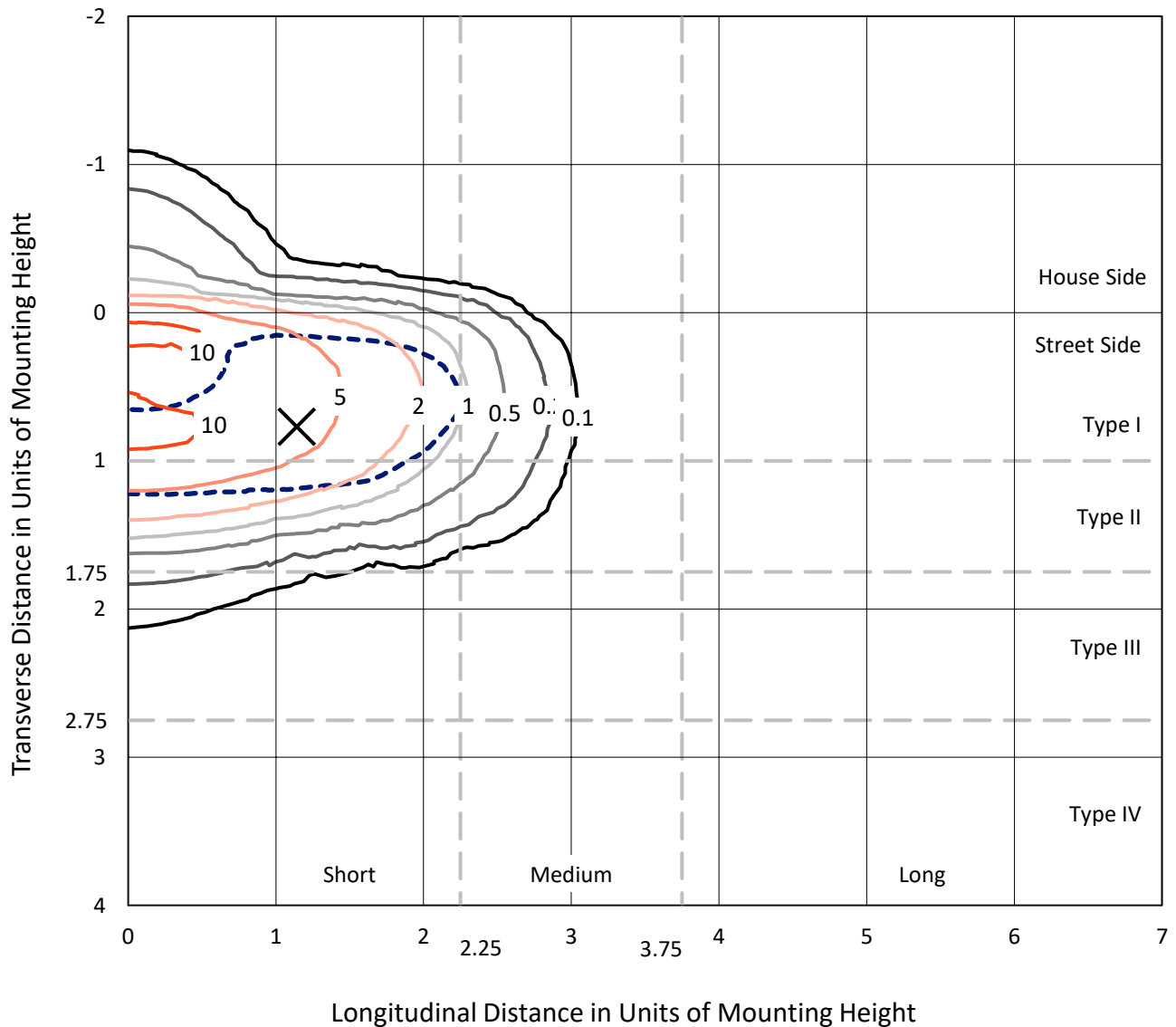
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

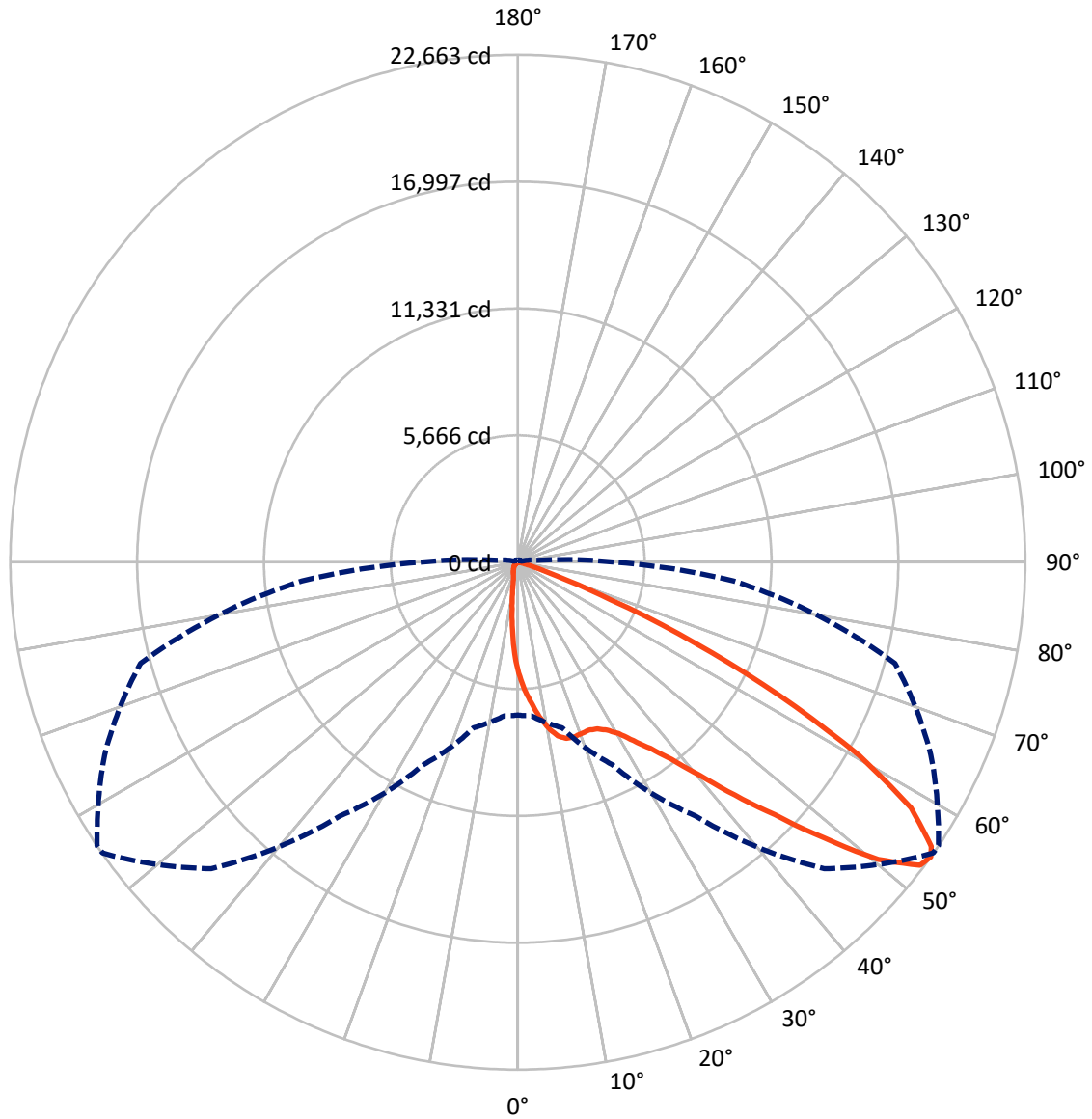
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1051.7	0.0	1051.7
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	21189.3	0.0	21189.3
	% Fixture	95.3	0.0	95.3
Total	Lumens	22241.0	0.0	22241.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.6	2.0
10°-20°	1180.4	5.3
20°-30°	2044.3	9.2
30°-40°	3528.9	15.9
40°-50°	6006.2	27.0
50°-60°	5943.9	26.7
60°-70°	2712.9	12.2
70°-80°	348.4	1.6
80°-90°	39.3	0.2
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°	22241.0	100.0
0°-180°	22241.0	100.0

Coefficient of Utilization



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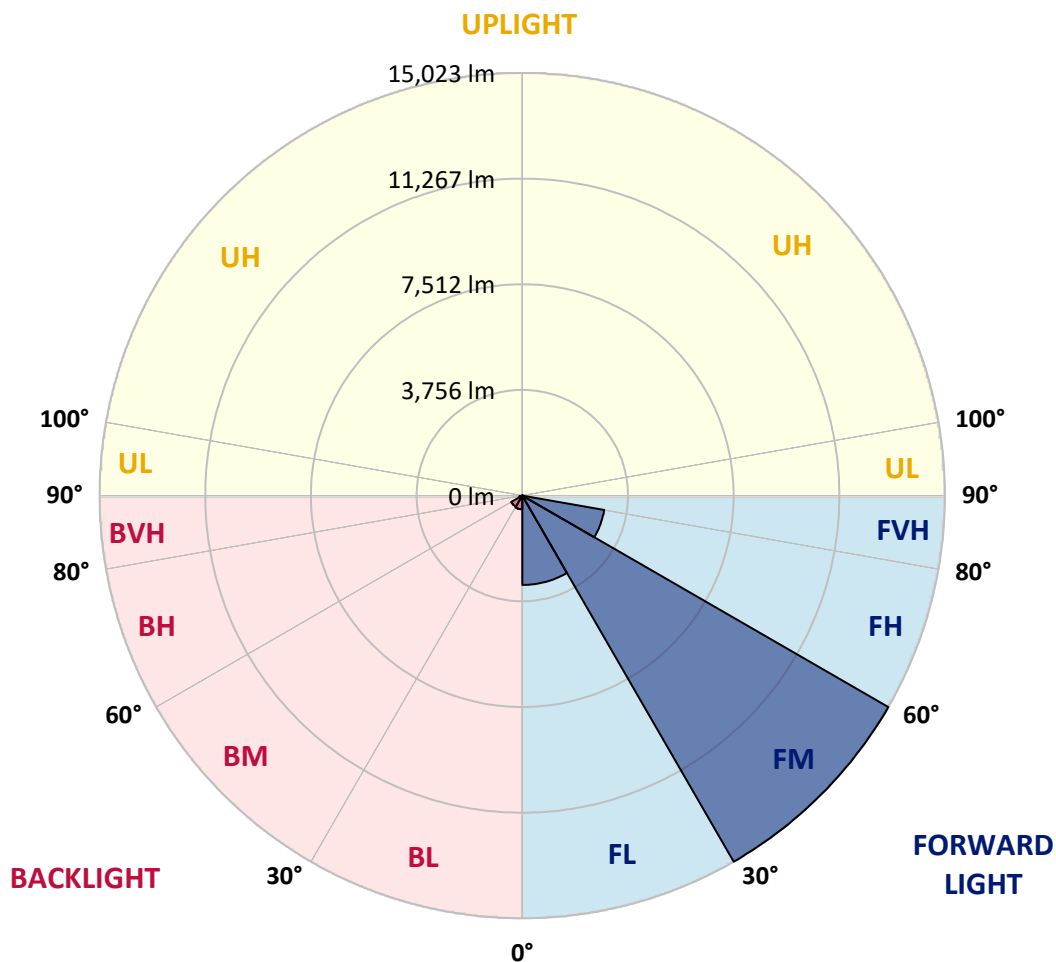
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3175.0	14.3			
FM (30°-60°)	15023.2	67.5			
FH (60°-80°)	2956.0	13.3			G2/5000
FVH (80°-90°)	35.0	0.2			G1/100
BL (0°-30°)	486.4	2.2	B1/500		
BM (30°-60°)	455.8	2.0	B1/1000		
BH (60°-80°)	105.3	0.5	B0/110		G0/110
BVH (80°-90°)	4.2	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4941.3	4941.3	4941.3	4941.3	4941.3	4941.3	4941.3	4941.3	4941.3	4941.3	4941.3
2.5°	6279.8	6236.3	6176.3	6129.7	6020.2	5862.6	5696.1	5696.1	5535.5	5311.9	5083.9
5°	7243.2	7214.6	7156.1	7036.1	6913.0	6692.5	6357.8	6299.3	6012.7	5607.6	5181.4
7.5°	7634.8	7648.3	7651.3	7619.8	7561.3	7343.7	7012.1	6971.6	6513.9	5970.7	5308.9
10°	7259.7	7325.7	7390.2	7520.8	7705.3	7757.8	7570.3	7528.3	7078.1	6338.3	5447.0
12.5°	6701.5	6737.5	6773.5	6979.1	7349.7	7774.3	7970.9	7969.4	7588.3	6704.5	5622.6
15°	6441.9	6473.4	6476.4	6567.9	6889.0	7507.3	8142.0	8164.5	8086.5	7156.1	5811.6
17.5°	6495.9	6521.4	6500.4	6522.9	6691.0	7213.1	8122.5	8197.5	8490.1	7589.8	5982.7
20°	6848.5	6898.0	6817.0	6754.0	6805.0	7135.1	8056.5	8161.5	8775.2	8012.9	6138.7
22.5°	7481.7	7508.8	7406.7	7234.2	7144.1	7298.7	8038.4	8142.0	9018.3	8359.6	6228.8
25°	8185.5	8176.5	8064.0	7870.4	7681.3	7628.8	8157.0	8250.0	9219.4	8671.7	6255.8
27.5°	8889.3	8916.3	8727.2	8487.1	8260.5	8124.0	8422.6	8491.6	9446.0	9027.3	6288.8
30°	9707.1	9663.5	9477.5	9202.9	8943.3	8752.7	8850.2	8869.8	9758.1	9498.5	6375.8
32.5°	10770.9	10650.9	10442.3	9962.2	9776.1	9453.5	9477.5	9501.5	10137.7	9965.2	6480.9
35°	12214.5	12208.5	11800.3	11153.6	10700.4	10299.8	10194.7	10214.2	10712.4	10658.4	6713.5
37.5°	13952.1	13976.1	13511.0	12859.7	12025.4	11389.2	11173.1	11176.1	11585.7	11615.8	7067.6
40°	15367.1	15430.2	15152.6	14712.9	13889.1	12894.2	12531.1	12498.1	12813.2	12775.7	7573.3
42.5°	15976.4	16034.9	16138.4	16291.5	15838.3	15017.5	14160.7	14205.7	14301.7	14039.1	8140.5
45°	15677.7	15770.8	16177.4	17122.8	17548.9	17272.8	16251.0	16093.4	15686.7	15412.1	8710.7
47.5°	14433.8	14660.4	15340.1	16914.2	18405.7	19339.1	18609.8	18401.2	17073.3	16414.5	9073.8
50°	12388.5	12402.0	13348.9	15361.1	17961.6	20643.1	21018.2	20862.1	18365.2	16977.2	9256.9
52.5°	8980.8	9276.4	10143.7	12474.1	16037.9	20445.0	22553.3	22488.7	19697.7	17265.3	9521.0
54°	6827.5	6884.5	7655.8	9968.2	13827.6	19357.1	22647.8	22662.8	20359.5	17439.4	9677.0
55°	5597.1	5460.5	6270.8	8491.6	12319.5	18395.2	22338.7	22410.7	20656.6	17529.4	9792.6
57.5°	2653.0	2654.5	3274.2	4479.1	7715.8	14283.7	20449.5	20704.6	20689.6	17684.0	10148.2
60°	1343.0	1352.0	1488.5	2067.8	3811.4	9495.5	16908.2	17515.9	19097.5	17706.5	10265.3
62.5°	939.3	928.8	906.3	994.9	1604.1	4825.8	12588.1	13116.3	16225.4	16849.7	9893.1
65°	804.3	781.8	718.8	705.3	810.3	1922.2	7840.4	8701.7	12388.5	14589.8	8833.7
67.5°	687.3	678.2	621.2	586.7	573.2	837.3	4045.5	4498.6	8467.6	10487.3	6691.0
70°	583.7	579.2	544.7	501.2	463.7	501.2	1500.5	1859.2	4719.2	5646.6	3157.2
72.5°	474.2	478.7	484.7	429.2	390.1	355.6	640.7	745.8	1974.7	2018.2	1104.4
75°	415.7	411.2	411.2	373.6	325.6	264.1	352.6	379.6	604.7	561.2	256.6
77.5°	292.6	282.1	330.1	307.6	271.6	187.6	201.1	213.1	250.6	214.6	120.0
80°	202.6	202.6	211.6	276.1	244.6	136.6	123.0	132.0	148.6	127.5	69.0
82.5°	114.0	117.0	138.1	147.1	142.6	91.5	81.0	82.5	99.0	87.0	43.5
85°	13.5	22.5	79.5	78.0	58.5	40.5	45.0	46.5	61.5	54.0	25.5
87.5°	1.5	3.0	16.5	21.0	15.0	16.5	16.5	16.5	21.0	24.0	18.0
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°	4941.3	4941.3	4941.3	4941.3	4941.3	4941.3	4941.3	4941.3	4941.3	4941.3	4941.3
2.5°	4960.8	4846.8	4575.2	4260.1	4059.0	3731.9	3455.8	3256.2	3206.7	3110.6	3139.2
5°	4954.8	4717.7	4164.0	3578.8	2954.6	2489.4	2142.8	1869.7	1749.6	1670.1	1614.6
7.5°	4957.8	4587.2	3698.9	2767.0	2021.2	1565.1	1244.0	1077.4	966.4	919.8	925.8
10°	4966.8	4440.1	3158.7	2049.8	1364.0	1011.4	814.8	735.3	697.8	691.8	690.3
12.5°	4987.8	4279.6	2642.5	1521.6	954.3	735.3	660.2	633.2	621.2	621.2	616.7
15°	5010.3	4102.5	2213.3	1131.4	735.3	631.7	597.2	583.7	576.2	576.2	574.7
17.5°	5010.3	3898.4	1812.7	877.8	633.2	580.7	553.7	535.7	529.7	529.7	528.2
20°	4978.8	3661.3	1457.0	706.8	574.7	532.7	505.7	486.2	478.7	475.7	474.2
22.5°	4869.3	3344.7	1159.9	607.7	526.7	490.7	456.2	433.7	427.7	424.7	426.2
25°	4674.2	2987.6	918.3	534.2	483.2	439.7	409.7	393.1	387.1	387.1	388.6
27.5°	4473.1	2614.0	727.8	478.7	430.7	391.6	367.6	357.1	355.6	360.1	361.6
30°	4287.1	2238.8	589.7	433.7	384.1	351.1	334.6	331.6	331.6	333.1	334.6
32.5°	4080.0	1910.2	493.7	394.6	346.6	318.1	309.1	309.1	312.1	312.1	315.1
35°	3949.4	1628.1	433.7	357.1	318.1	294.1	288.1	289.6	294.1	300.1	303.1
37.5°	3878.9	1403.0	394.6	327.1	291.1	274.6	268.6	271.6	282.1	292.6	294.1
40°	3884.9	1233.5	363.1	301.6	270.1	252.1	247.6	256.6	267.1	277.6	279.1
42.5°	3950.9	1107.4	333.1	271.6	252.1	226.6	225.1	234.1	238.6	249.1	250.6
45°	4029.0	1015.9	301.6	240.1	219.1	196.6	198.1	205.6	211.6	228.1	231.1
47.5°	4053.0	952.8	265.6	204.1	180.1	172.6	174.1	178.6	190.6	205.6	207.1
50°	4080.0	913.8	231.1	172.6	153.1	151.6	153.1	156.1	163.6	169.6	168.1
52.5°	4195.5	912.3	202.6	150.1	130.5	133.5	135.0	133.5	127.5	118.5	115.5
54°	4303.6	916.8	189.1	139.6	120.0	124.5	123.0	115.5	100.5	91.5	87.0
55°	4390.6	921.3	181.6	132.0	114.0	115.5	117.0	102.0	82.5	73.5	70.5
57.5°	4561.7	910.8	163.6	115.5	100.5	94.5	93.0	67.5	45.0	39.0	36.0
60°	4476.1	822.3	148.6	99.0	85.5	76.5	63.0	37.5	22.5	16.5	16.5
62.5°	4140.0	697.8	132.0	81.0	70.5	58.5	33.0	21.0	10.5	6.0	4.5
65°	3703.4	586.7	118.5	64.5	55.5	37.5	18.0	13.5	4.5	0.0	0.0
67.5°	2753.5	435.2	100.5	51.0	42.0	24.0	12.0	7.5	1.5	0.0	0.0
70°	1275.5	265.6	85.5	39.0	30.0	18.0	9.0	4.5	0.0	0.0	0.0
72.5°	366.1	166.6	70.5	28.5	21.0	15.0	7.5	3.0	1.5	0.0	0.0
75°	127.5	133.5	52.5	21.0	16.5	10.5	6.0	3.0	1.5	0.0	0.0
77.5°	76.5	108.0	33.0	18.0	13.5	9.0	6.0	3.0	1.5	1.5	0.0
80°	43.5	72.0	21.0	15.0	12.0	7.5	4.5	3.0	1.5	1.5	0.0
82.5°	24.0	34.5	16.5	13.5	10.5	7.5	4.5	3.0	1.5	1.5	1.5
85°	19.5	18.0	13.5	12.0	9.0	6.0	4.5	1.5	0.0	0.0	0.0
87.5°	15.0	12.0	12.0	12.0	9.0	6.0	4.5	1.5	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)