

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: P956292

Luminaire Tested: **GALN-SB9A-727-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956292
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31551 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 255.5
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

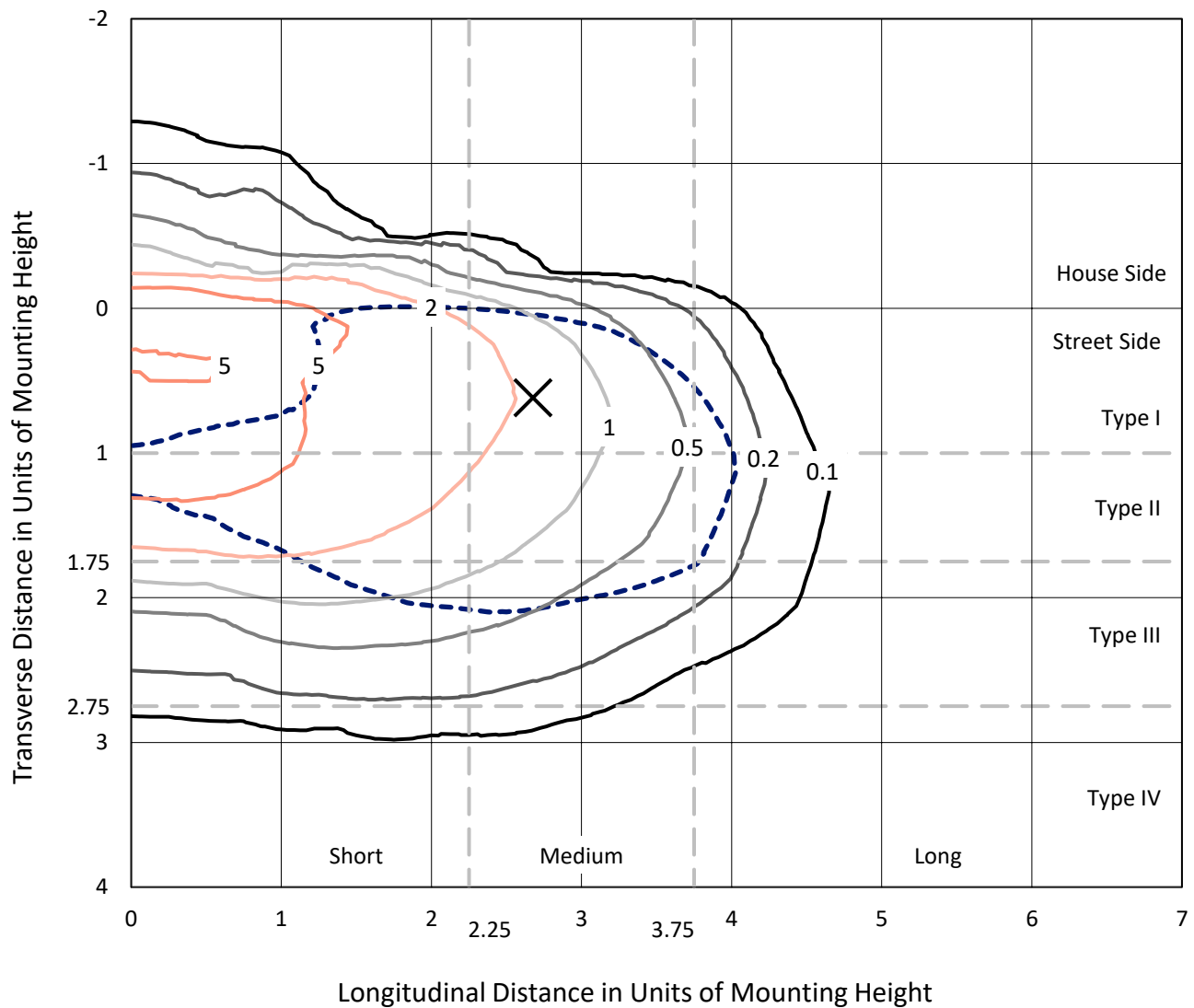


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Iso-Footcandle Lines of Horizontal Illumination

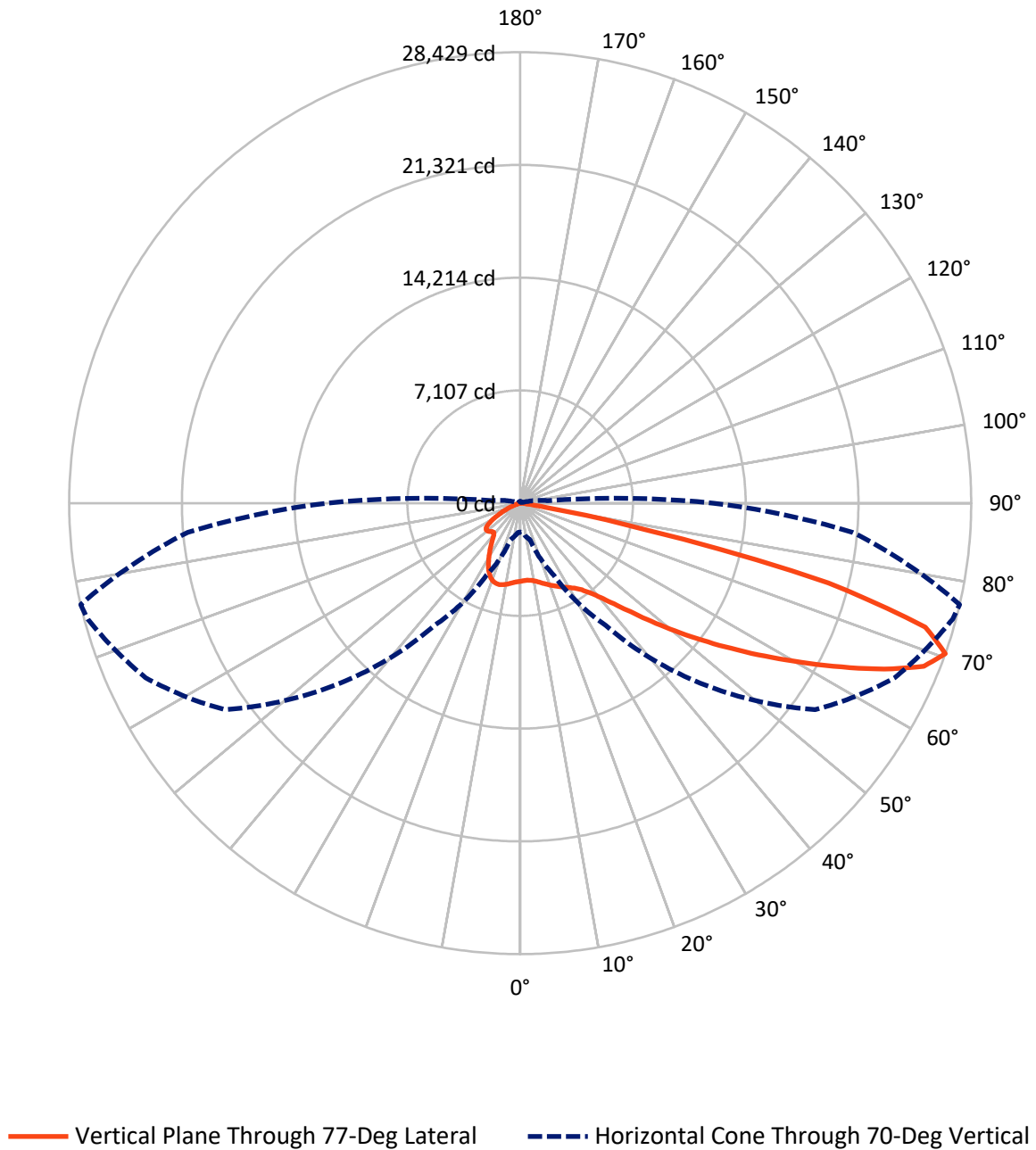
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3325.9	0.0	3325.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	28225.1	0.0	28225.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	31551.0	0.0	31551.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.1	1.3
10°-20°	1006.9	3.2
20°-30°	1557.4	4.9
30°-40°	2825.9	9.0
40°-50°	5334.2	16.9
50°-60°	7707.5	24.4
60°-70°	8204.4	26.0
70°-80°	4347.8	13.8
80°-90°	142.8	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°	31551.0	100.0
0°-180°	31551.0	100.0

Coefficient of Utilization



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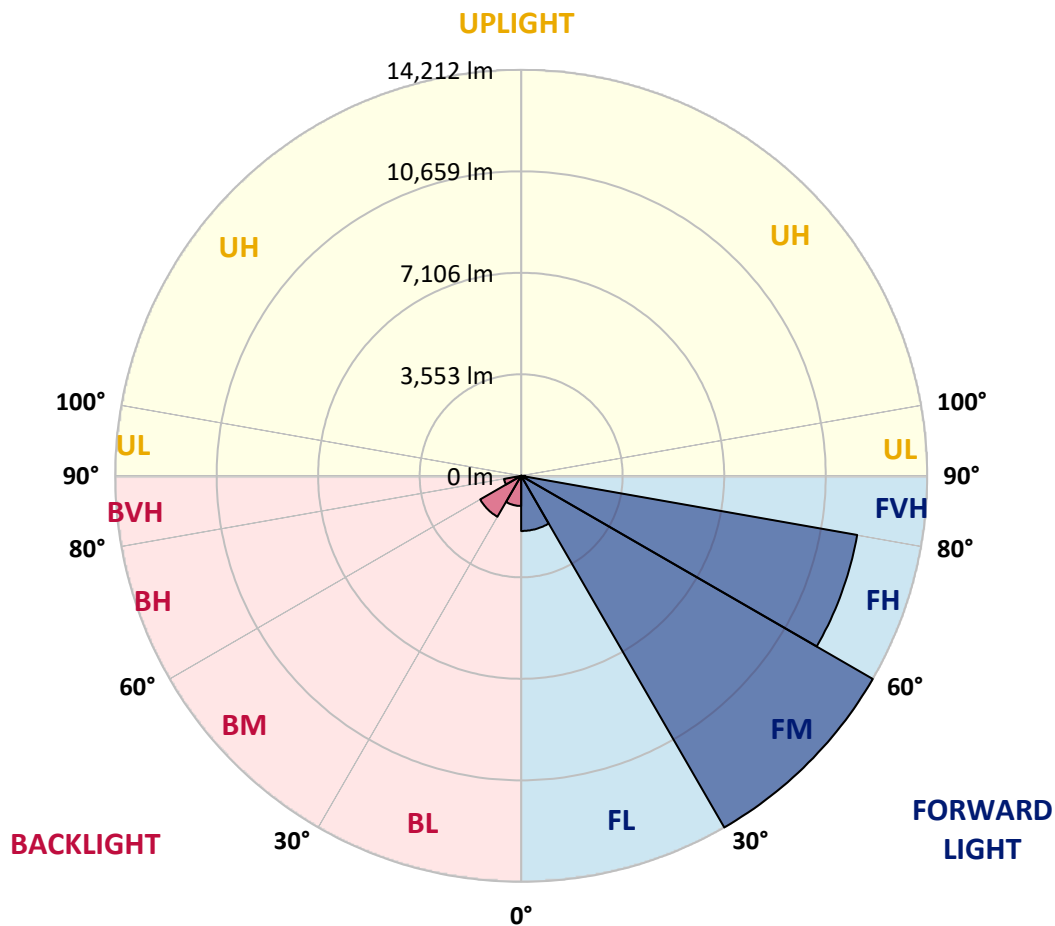
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1931.7	6.1			
FM	(30°-60°)	14212.0	45.0			
FH	(60°-80°)	11942.5	37.9			G4/12000
FVH	(80°-90°)	138.9	0.4			G2/225
BL	(0°-30°)	1056.7	3.3	B3/2500		
BM	(30°-60°)	1655.7	5.2	B2/2500		
BH	(60°-80°)	609.7	1.9	B2/1000		G2/1000
BVH	(80°-90°)	3.8	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-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4921.4	4921.4	4921.4	4921.4	4921.4	4921.4	4921.4	4921.4	4921.4	4921.4	4921.4
2.5°	4620.5	4662.4	4656.4	4684.3	4694.2	4734.1	4773.9	4827.7	4887.5	4885.5	4925.4
5°	4359.5	4401.4	4411.3	4449.2	4497.0	4558.8	4640.4	4748.0	4859.6	4877.6	4957.3
7.5°	4050.7	4094.5	4120.4	4196.1	4283.8	4411.3	4544.8	4702.2	4887.5	4913.4	5066.8
10°	3741.8	3781.7	3815.6	3923.2	4062.6	4251.9	4469.1	4696.2	4945.3	4983.2	5200.3
12.5°	3550.6	3588.4	3626.3	3719.9	3893.3	4124.4	4419.3	4724.1	5040.9	5094.7	5381.6
15°	3482.8	3516.7	3546.6	3630.3	3791.7	4054.7	4409.3	4781.9	5162.5	5234.2	5600.8
17.5°	3492.8	3510.7	3530.6	3594.4	3751.8	4022.8	4427.3	4881.5	5305.9	5369.7	5820.0
20°	3550.6	3560.5	3562.5	3606.4	3745.8	4018.8	4463.1	4977.2	5441.4	5527.1	6037.2
22.5°	3624.3	3628.3	3624.3	3654.2	3783.7	4048.7	4510.9	5092.7	5592.8	5672.5	6256.3
25°	3969.0	3893.3	3797.6	3739.9	3847.4	4106.5	4582.7	5248.2	5758.2	5835.9	6469.5
27.5°	5038.9	4821.8	4479.1	4094.5	3979.0	4190.2	4682.3	5405.6	5925.6	5995.3	6698.7
30°	6776.4	6491.4	5909.6	5042.9	4401.4	4365.5	4811.8	5563.0	6102.9	6178.6	6943.7
32.5°	8517.8	8448.0	7776.6	6577.1	5351.8	4756.0	5027.0	5776.2	6338.0	6397.8	7274.5
35°	10279.1	10137.7	9587.7	8402.2	6816.2	5551.0	5385.6	6055.1	6646.9	6714.6	7756.7
37.5°	11628.0	11542.3	11201.6	10225.3	8553.6	6778.4	5999.3	6487.5	7095.2	7170.9	8374.3
40°	12819.5	12779.7	12664.1	12020.5	10496.3	8384.3	6953.7	7156.9	7716.8	7806.5	9131.5
42.5°	13756.0	13849.6	13915.4	13736.0	12498.7	10217.4	8236.8	8097.4	8583.5	8675.2	10095.8
45°	14714.3	14746.2	15011.2	15270.2	14487.2	12134.1	9683.4	9199.2	9661.5	9775.0	11251.4
47.5°	15330.0	15457.5	15923.8	16380.0	16158.9	14034.9	11237.5	10500.3	10910.7	11123.9	12546.5
50°	15375.8	15616.9	16258.5	17053.5	17376.3	15844.1	12927.1	11982.7	12419.0	12654.1	13929.3
52.5°	14612.7	14987.3	15981.6	17145.2	18033.8	17376.3	14674.5	13465.1	14025.0	14331.8	15363.9
55°	11203.6	11693.8	14939.5	16647.0	18059.7	18537.9	16376.1	15009.2	15814.2	16160.9	16914.0
57.5°	9761.1	10008.1	11745.6	15782.3	17579.5	19006.1	17914.2	16479.7	17760.8	18191.2	18378.5
60°	8121.3	8446.1	9850.7	14367.7	16928.0	19051.9	19273.1	18376.5	19870.8	20355.0	19721.4
62.5°	5519.1	5871.8	7268.5	11936.9	16037.3	19030.0	20386.9	20329.1	22216.0	22736.0	20859.1
65°	3419.1	3640.2	4560.8	9747.1	14792.1	19053.9	21552.5	22700.1	24690.6	25218.6	21739.8
67.5°	2701.8	2803.4	3283.6	7483.7	12646.2	18516.0	22716.1	24929.7	27019.8	27438.2	22008.8
70°	1815.1	1876.9	2389.0	5017.0	9408.4	16033.4	22694.2	26049.5	28219.3	28428.5	21028.5
72.5°	956.4	1004.2	1396.7	2323.2	5682.5	11396.9	19129.6	24710.5	27025.8	26711.0	17974.0
75°	478.2	557.9	940.4	1179.5	2426.8	6356.0	11879.1	19482.3	21271.5	20052.2	11532.4
77.5°	362.6	438.3	777.1	777.1	844.8	2139.9	5031.0	10625.8	9800.9	8161.1	3385.2
80°	231.1	298.9	679.4	587.8	352.7	543.9	1311.0	2976.7	2082.1	1584.0	615.7
82.5°	135.5	195.3	565.9	388.5	197.3	201.2	370.6	633.6	540.0	420.4	189.3
85°	53.8	127.5	388.5	153.4	77.7	49.8	111.6	135.5	111.6	83.7	47.8
87.5°	0.0	29.9	67.7	0.0	6.0	4.0	8.0	10.0	10.0	8.0	15.9
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°	4921.4	4921.4	4921.4	4921.4	4921.4	4921.4	4921.4	4921.4	4921.4	4921.4	4921.4
2.5°	4943.3	4947.3	4959.2	4961.2	4933.3	4897.5	4883.5	4877.6	4853.6	4851.6	4855.6
5°	5003.1	5021.0	5003.1	4951.3	4827.7	4654.4	4522.9	4415.3	4317.7	4287.8	4269.9
7.5°	5122.6	5140.6	5086.8	4883.5	4572.7	4228.0	3917.2	3698.0	3500.8	3427.0	3397.2
10°	5294.0	5317.9	5148.5	4738.1	4188.2	3634.3	3108.2	2737.6	2448.7	2331.2	2281.4
12.5°	5509.2	5519.1	5182.4	4516.9	3688.1	2897.0	2151.9	1755.4	1498.3	1402.7	1372.8
15°	5746.3	5732.3	5186.4	4216.1	3006.6	2048.3	1404.7	1153.6	1050.0	1018.1	1018.1
17.5°	5995.3	5937.5	5106.7	3781.7	2259.5	1400.7	1042.1	982.3	964.4	956.4	954.4
20°	6240.4	6110.9	4961.2	3213.8	1621.9	1046.0	946.4	928.5	918.5	914.5	910.6
22.5°	6463.6	6242.4	4712.2	2554.3	1177.5	924.5	894.6	878.7	860.7	852.8	850.8
25°	6680.7	6318.1	4361.5	1938.7	942.4	864.7	840.8	810.9	787.0	777.1	773.1
27.5°	6891.9	6365.9	3923.2	1434.6	840.8	808.9	765.1	723.3	705.3	701.3	697.4
30°	7117.1	6381.9	3425.0	1070.0	779.1	739.2	675.4	627.6	617.7	619.7	619.7
32.5°	7392.0	6405.8	2922.9	876.7	727.2	655.5	579.8	530.0	522.0	530.0	528.0
35°	7720.8	6453.6	2438.8	806.9	681.4	569.8	488.2	446.3	438.3	444.3	442.3
37.5°	8167.1	6531.3	1986.5	793.0	643.6	498.1	410.4	376.6	376.6	378.6	376.6
40°	8760.9	6738.5	1582.0	783.0	623.6	444.3	346.7	332.7	338.7	342.7	342.7
42.5°	9484.1	7178.8	1309.0	771.1	601.7	420.4	314.8	308.8	318.8	322.8	322.8
45°	10295.1	7736.7	1213.4	751.2	581.8	436.3	300.9	292.9	304.8	306.8	308.8
47.5°	11133.9	8282.7	1201.5	729.2	561.9	460.3	296.9	278.9	292.9	294.9	296.9
50°	11982.7	8639.3	1213.4	695.4	530.0	460.3	298.9	265.0	277.0	282.9	284.9
52.5°	12837.4	8802.7	1205.4	621.6	474.2	432.4	298.9	253.0	265.0	269.0	269.0
55°	13666.3	8770.8	1083.9	512.1	402.5	382.6	290.9	243.1	251.1	253.0	253.0
57.5°	14321.8	8326.5	858.8	398.5	326.8	318.8	265.0	231.1	237.1	235.1	235.1
60°	14664.5	7350.2	613.7	306.8	257.0	251.1	233.1	215.2	219.2	209.2	207.2
62.5°	14668.5	6059.1	410.4	243.1	205.2	199.2	199.2	193.3	189.3	169.4	163.4
65°	14355.7	4626.5	273.0	193.3	165.4	155.4	167.4	165.4	151.4	123.5	119.5
67.5°	13646.4	3032.5	207.2	151.4	127.5	121.5	133.5	139.5	129.5	103.6	101.6
70°	12187.9	1765.3	171.4	117.6	95.6	89.7	107.6	119.5	107.6	83.7	79.7
72.5°	10123.7	952.4	139.5	87.7	65.8	59.8	85.7	97.6	85.7	61.8	59.8
75°	6569.2	510.1	107.6	57.8	33.9	37.9	63.8	71.7	59.8	39.8	35.9
77.5°	2205.7	225.1	67.7	27.9	15.9	15.9	37.9	43.8	27.9	13.9	12.0
80°	492.1	93.6	27.9	12.0	6.0	6.0	8.0	8.0	4.0	0.0	0.0
82.5°	161.4	37.9	12.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	61.8	13.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.9	2.0	0.0	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)