

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: P956294

Luminaire Tested: **GALN-SB9A-727-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956294
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
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-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29192 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

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

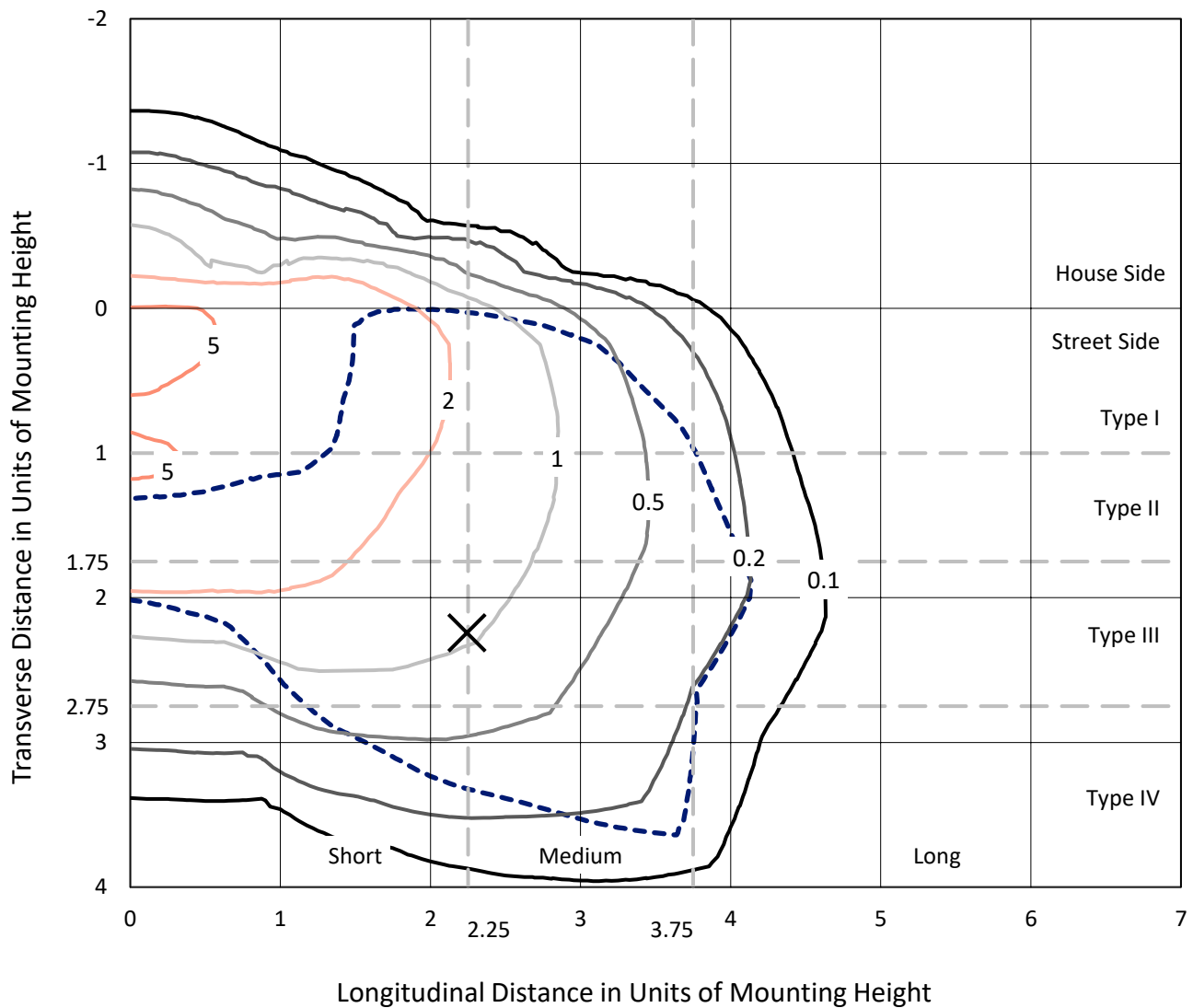


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Iso-Footcandle Lines of Horizontal Illumination

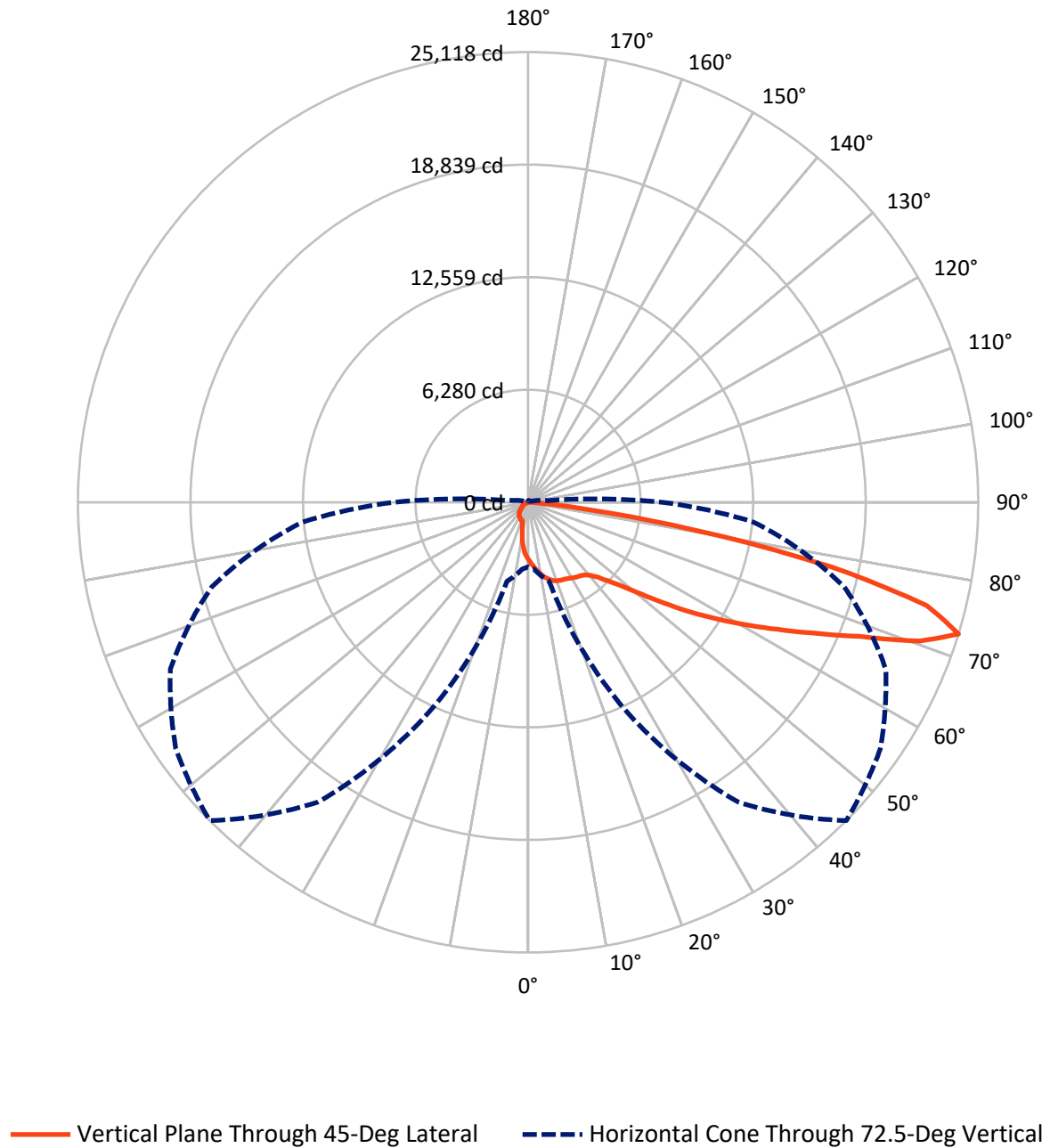
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3067.3	0.0	3067.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	26124.7	0.0	26124.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	29192.0	0.0	29192.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.3	1.0
10°-20°	880.6	3.0
20°-30°	1446.1	5.0
30°-40°	2051.0	7.0
40°-50°	3390.0	11.6
50°-60°	6089.8	20.9
60°-70°	8456.0	29.0
70°-80°	6133.7	21.0
80°-90°	443.4	1.5
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°	29192.0	100.0
0°-180°	29192.0	100.0

Coefficient of Utilization



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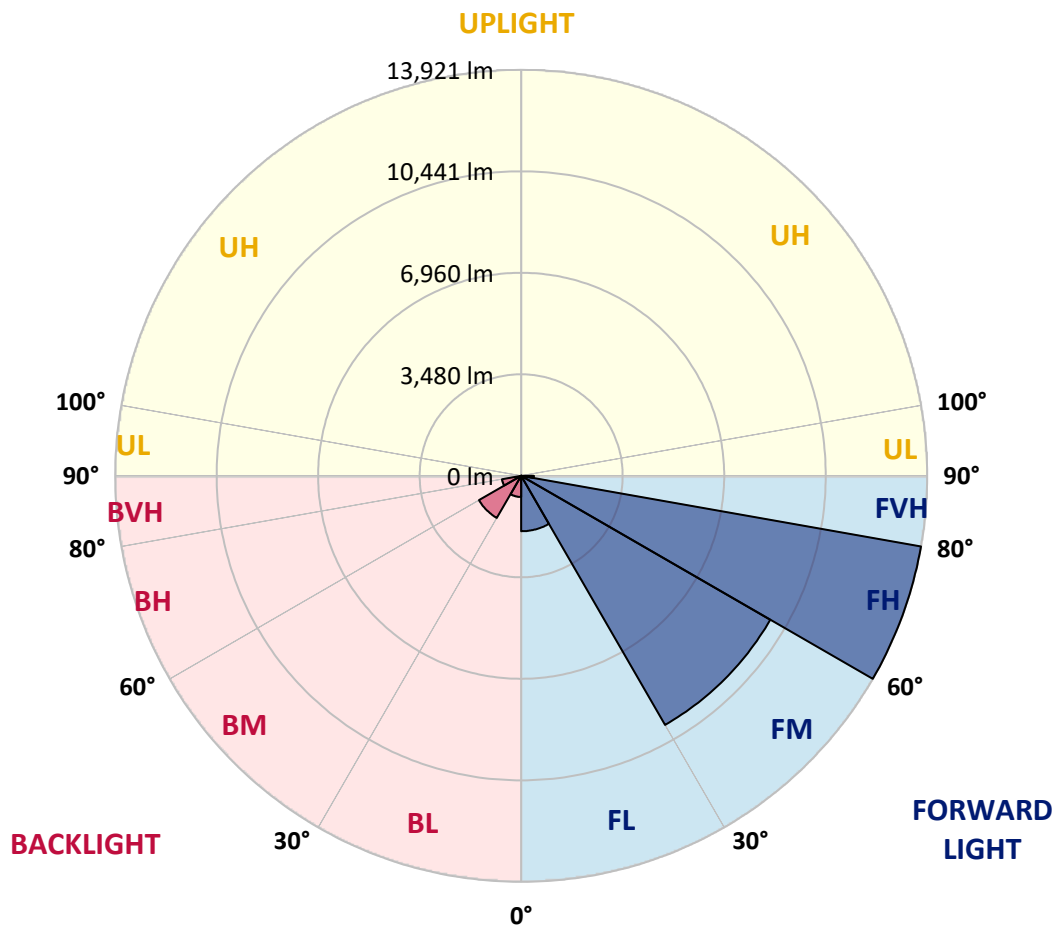
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1901.6	6.5			
FM	(30°-60°)	9862.6	33.8			
FH	(60°-80°)	13920.8	47.7			G5
FVH	(80°-90°)	439.7	1.5			G3/500
BL	(0°-30°)	726.5	2.5	B2/1000		
BM	(30°-60°)	1668.2	5.7	B2/2500		
BH	(60°-80°)	668.9	2.3	B2/1000		G2/1000
BVH	(80°-90°)	3.7	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0
2.5°	3492.9	3498.9	3494.9	3471.0	3431.2	3409.3	3397.3	3357.4	3331.5	3285.7	3237.9
5°	3813.7	3837.7	3823.7	3775.9	3700.2	3646.4	3630.4	3548.7	3475.0	3389.3	3289.7
7.5°	4154.5	4166.4	4140.5	4078.8	3977.1	3885.5	3871.5	3758.0	3640.4	3508.9	3373.4
10°	4449.4	4463.3	4423.5	4333.8	4218.2	4104.7	4084.7	3959.2	3819.7	3658.3	3485.0
12.5°	4696.4	4710.4	4658.6	4551.0	4423.5	4305.9	4286.0	4154.5	4001.0	3821.7	3606.5
15°	4883.7	4909.6	4839.9	4724.3	4586.9	4469.3	4459.3	4329.8	4180.4	3981.1	3752.0
17.5°	4993.3	5019.2	4953.5	4814.0	4696.4	4596.8	4584.9	4477.3	4337.8	4146.5	3893.4
20°	5011.3	5035.2	4965.4	4843.9	4746.3	4666.6	4660.6	4582.9	4481.2	4297.9	4046.9
22.5°	4957.5	4987.4	4923.6	4826.0	4758.2	4716.4	4708.4	4664.6	4606.8	4451.4	4190.3
25°	4901.7	4925.6	4877.8	4792.1	4756.2	4752.2	4758.2	4750.2	4738.3	4606.8	4357.7
27.5°	4897.7	4923.6	4869.8	4788.1	4768.2	4810.0	4816.0	4853.9	4863.8	4748.3	4519.1
30°	4931.6	4949.5	4897.7	4812.0	4802.0	4897.7	4899.7	4967.4	4983.4	4867.8	4678.5
32.5°	5005.3	5025.2	4973.4	4847.9	4833.9	4967.4	4973.4	5063.1	5089.0	4995.3	4845.9
35°	5178.6	5202.6	5142.8	4947.5	4897.7	5033.2	5051.1	5156.7	5208.5	5130.8	5019.2
37.5°	5611.0	5541.3	5459.6	5148.8	5043.1	5136.8	5166.7	5290.2	5381.9	5292.2	5226.5
40°	6685.0	6465.8	6210.8	5491.5	5298.2	5358.0	5381.9	5505.4	5631.0	5543.3	5511.4
42.5°	8297.0	8038.0	7627.5	6280.5	5682.8	5712.6	5730.6	5838.2	6015.5	5945.8	5953.7
45°	9733.6	9640.0	9221.5	7627.5	6402.1	6254.6	6276.5	6332.3	6593.4	6567.5	6619.3
47.5°	10837.5	10783.7	10460.9	9173.7	7617.5	6918.1	6979.9	7005.8	7382.4	7474.1	7613.5
50°	11686.3	11666.4	11377.5	10548.6	9205.6	7896.5	7918.4	7862.6	8426.5	8653.7	8918.7
52.5°	12487.3	12555.1	12341.9	11825.8	10901.3	9177.7	9173.7	8910.7	9671.8	10014.6	10466.9
55°	13210.6	13234.5	13256.4	13128.9	12606.9	10636.2	10598.4	10168.0	11116.4	11471.1	11961.3
57.5°	13890.1	13900.0	14095.3	14356.3	14382.2	12202.4	12132.6	11616.6	12694.5	12947.6	13248.5
60°	14346.4	14392.2	14804.7	15529.9	15846.8	13818.3	13780.5	13254.5	14300.5	14418.1	14362.3
62.5°	13688.8	13967.8	15007.9	16446.5	17229.6	15609.7	15591.7	15097.6	15990.2	15894.6	15416.4
65°	11080.6	11552.8	13382.0	17066.2	18586.5	17610.2	17636.1	17110.0	17725.7	17414.9	16273.2
67.5°	7751.0	8249.2	10413.1	17116.0	20102.9	19959.4	20108.8	19283.9	19568.9	18871.5	16476.4
70°	5360.0	5617.0	7025.7	16044.0	21284.4	23195.3	23191.3	21953.9	21402.0	19535.0	15440.3
72.5°	3604.5	3738.0	4562.9	12728.4	20415.7	25118.1	25002.5	23994.3	22019.7	18269.7	12614.8
75°	1520.3	1618.0	2112.1	7153.3	16151.6	22980.1	22667.3	21204.7	19564.9	14386.2	7870.6
77.5°	482.2	524.0	832.9	2560.4	8896.7	17273.4	16942.7	13242.5	13113.0	7217.0	2877.2
80°	229.1	267.0	468.2	1028.2	3500.9	9394.9	9349.1	6007.5	5640.9	1948.7	577.8
82.5°	99.6	117.6	259.0	549.9	1566.1	3351.5	3419.2	2044.4	1691.7	739.2	177.3
85°	31.9	41.8	119.6	253.1	661.5	832.9	822.9	486.2	681.5	402.5	61.8
87.5°	0.0	0.0	39.9	57.8	67.7	47.8	53.8	41.8	189.3	111.6	21.9
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°	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0
2.5°	3214.0	3182.1	3126.3	3074.5	3028.7	2982.9	2955.0	2915.1	2911.1	2911.1	2921.1
5°	3235.9	3184.1	3084.5	2978.9	2857.3	2741.8	2626.2	2514.6	2478.7	2452.8	2464.8
7.5°	3299.7	3218.0	3060.6	2859.3	2628.2	2375.1	2197.8	2006.5	1932.8	1892.9	1898.9
10°	3391.3	3279.7	3040.6	2688.0	2313.4	1968.6	1715.6	1508.4	1428.7	1394.8	1394.8
12.5°	3492.9	3355.5	3004.8	2474.7	1968.6	1556.2	1309.1	1213.5	1201.5	1201.5	1201.5
15°	3614.5	3447.1	2943.0	2223.7	1608.0	1231.4	1143.7	1147.7	1159.7	1167.6	1167.6
17.5°	3740.0	3544.7	2845.4	1942.7	1289.2	1107.9	1109.9	1115.8	1125.8	1133.8	1133.8
20°	3875.5	3642.4	2715.8	1643.9	1105.9	1072.0	1078.0	1083.9	1091.9	1095.9	1097.9
22.5°	4021.0	3734.0	2562.4	1351.0	1044.1	1042.1	1044.1	1050.1	1060.0	1060.0	1064.0
25°	4176.4	3835.7	2387.1	1137.7	1012.2	1012.2	1016.2	1020.2	1028.2	1028.2	1030.1
27.5°	4335.8	3929.3	2201.8	1026.2	984.3	982.3	982.3	988.3	992.3	994.3	996.3
30°	4511.1	4038.9	2016.5	1002.3	962.4	952.4	946.5	950.4	954.4	956.4	960.4
32.5°	4690.5	4144.5	1851.1	1012.2	940.5	922.6	902.6	898.6	898.6	906.6	912.6
35°	4889.7	4260.1	1723.6	1046.1	928.5	878.7	846.8	828.9	830.9	842.8	848.8
37.5°	5128.8	4399.6	1629.9	1076.0	920.6	828.9	777.1	755.2	741.2	755.2	751.2
40°	5441.7	4604.8	1562.2	1099.9	910.6	771.1	701.4	665.5	639.6	647.6	643.6
42.5°	5901.9	4927.6	1536.3	1101.9	888.7	703.4	623.7	575.8	538.0	540.0	532.0
45°	6547.5	5437.7	1669.8	1076.0	840.9	629.6	542.0	478.2	454.3	448.3	440.4
47.5°	7432.2	6180.9	1978.6	1022.2	771.1	557.9	462.3	408.5	390.5	380.6	374.6
50°	8617.8	7135.3	2321.3	962.4	701.4	490.2	396.5	362.6	350.7	340.7	338.7
52.5°	9992.6	8103.7	2602.3	902.6	631.6	430.4	354.7	334.7	324.8	316.8	314.8
55°	11253.9	8771.2	2586.3	838.9	563.9	382.6	324.8	312.8	300.9	292.9	288.9
57.5°	12039.0	8864.9	2132.0	769.1	486.2	344.7	296.9	288.9	275.0	265.0	263.0
60°	12399.7	8330.9	1494.4	677.5	408.5	308.8	267.0	263.0	245.1	231.1	227.2
62.5°	12465.4	7338.6	996.3	563.9	340.7	275.0	237.1	231.1	207.2	183.3	171.4
65°	12198.4	5919.9	689.4	440.4	290.9	239.1	203.2	191.3	165.4	141.5	133.5
67.5°	11353.6	4156.5	480.2	316.8	247.1	189.3	161.4	157.4	137.5	117.6	111.6
70°	9805.3	2369.1	320.8	237.1	195.3	129.5	127.5	131.5	111.6	95.6	87.7
72.5°	7517.9	1083.9	199.3	173.4	133.5	87.7	101.6	103.6	85.7	71.7	63.8
75°	4425.5	464.3	125.5	111.6	67.7	57.8	73.7	75.7	57.8	45.8	39.9
77.5°	1506.4	175.3	79.7	65.8	33.9	31.9	47.8	47.8	31.9	17.9	13.9
80°	342.7	65.8	39.9	25.9	15.9	13.9	15.9	13.9	8.0	2.0	0.0
82.5°	97.6	25.9	15.9	10.0	6.0	6.0	2.0	0.0	0.0	0.0	0.0
85°	27.9	12.0	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.0	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)