

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: P943498

Luminaire Tested: **GALN-SB8A-730-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943498
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27464 lumens
Efficiency: N/A
Efficacy: 120.9 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): 227.1
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



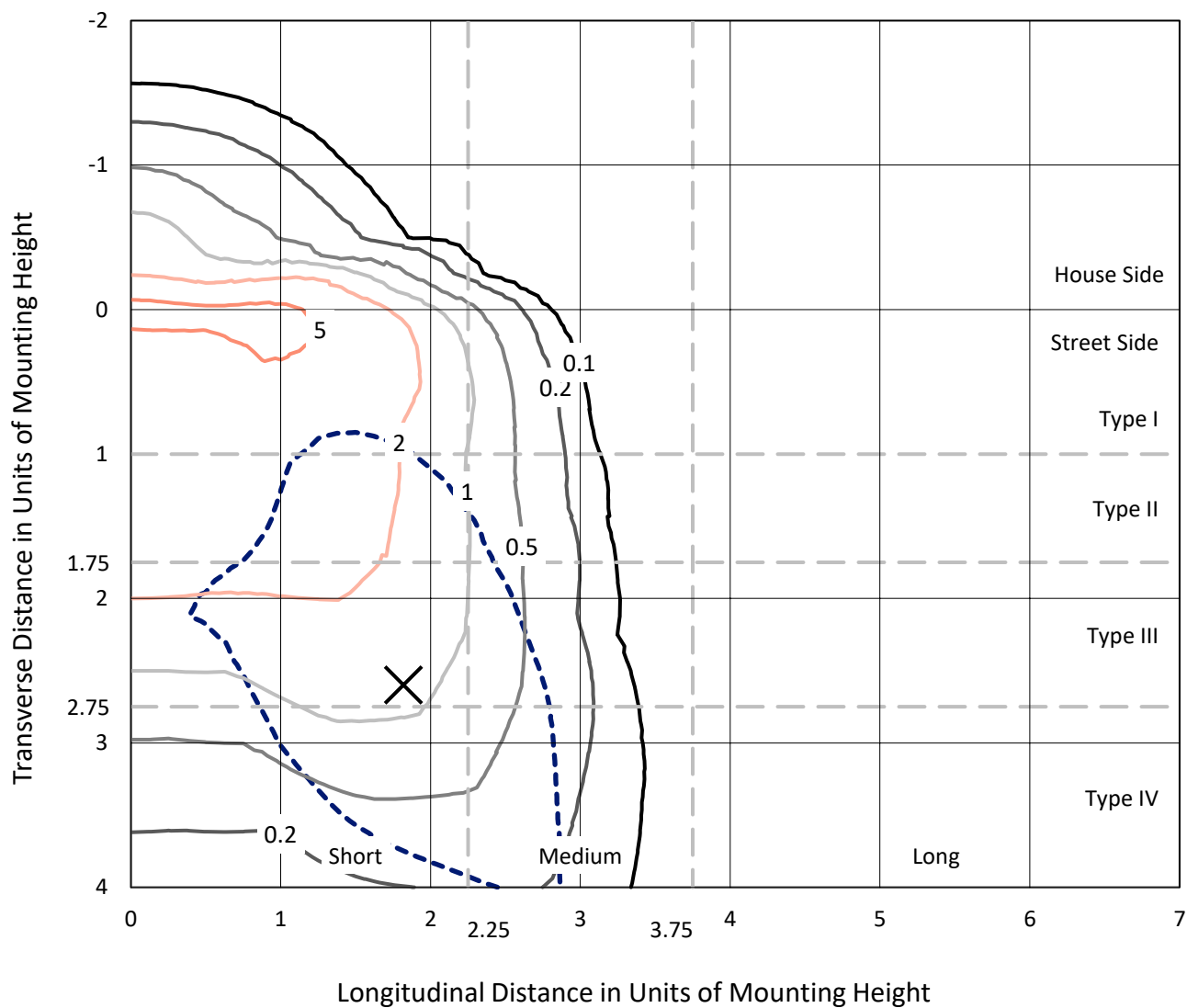
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

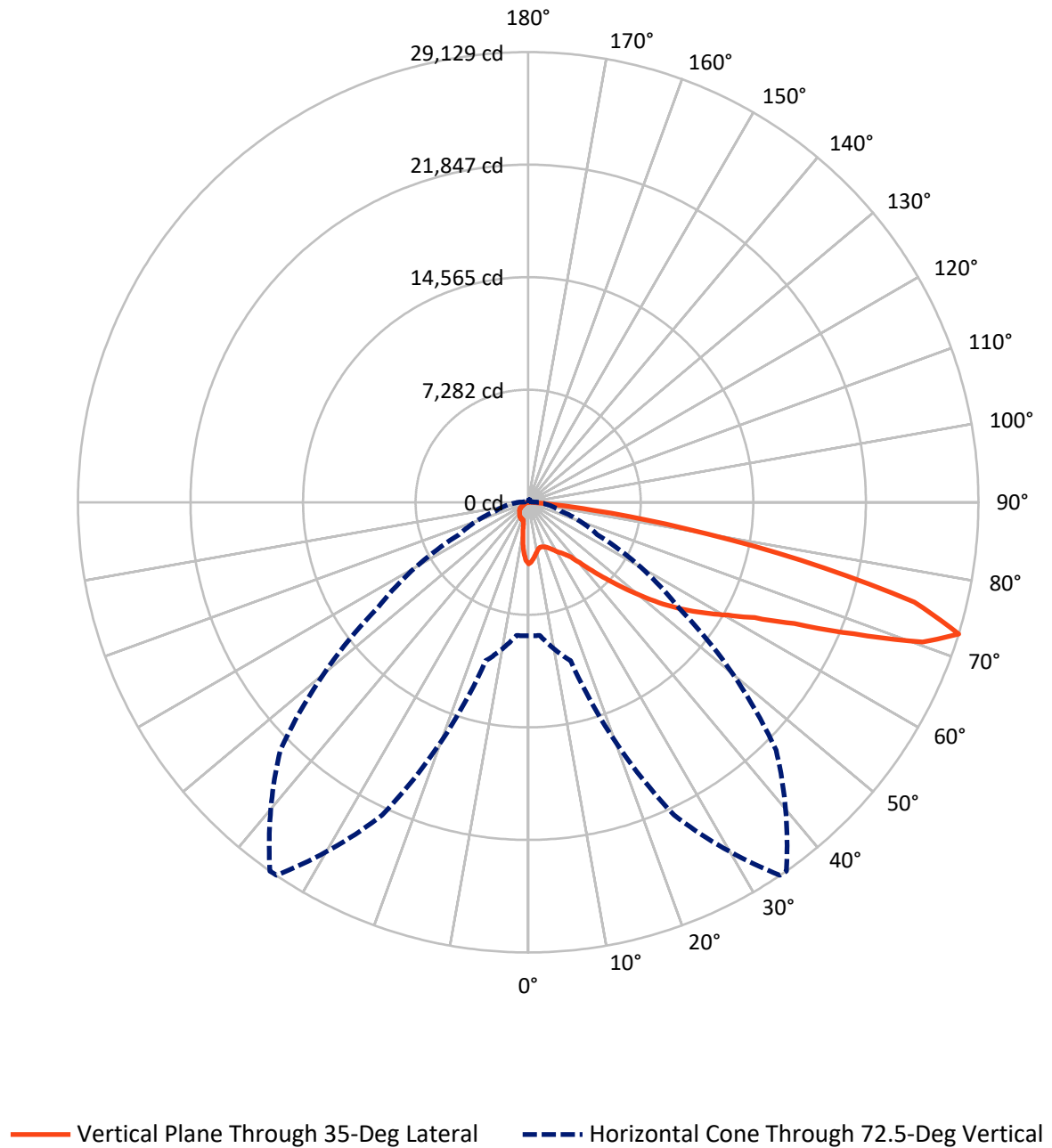
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	3090.9	0.0	3090.9
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	24373.1	0.0	24373.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	27464.0	0.0	27464.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.1	1.2
10°-20°	765.2	2.8
20°-30°	1243.0	4.5
30°-40°	2074.0	7.6
40°-50°	3924.0	14.3
50°-60°	6235.2	22.7
60°-70°	7713.4	28.1
70°-80°	4794.7	17.5
80°-90°	387.5	1.4
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°	27464.0	100.0
0°-180°	27464.0	100.0

Coefficient of Utilization



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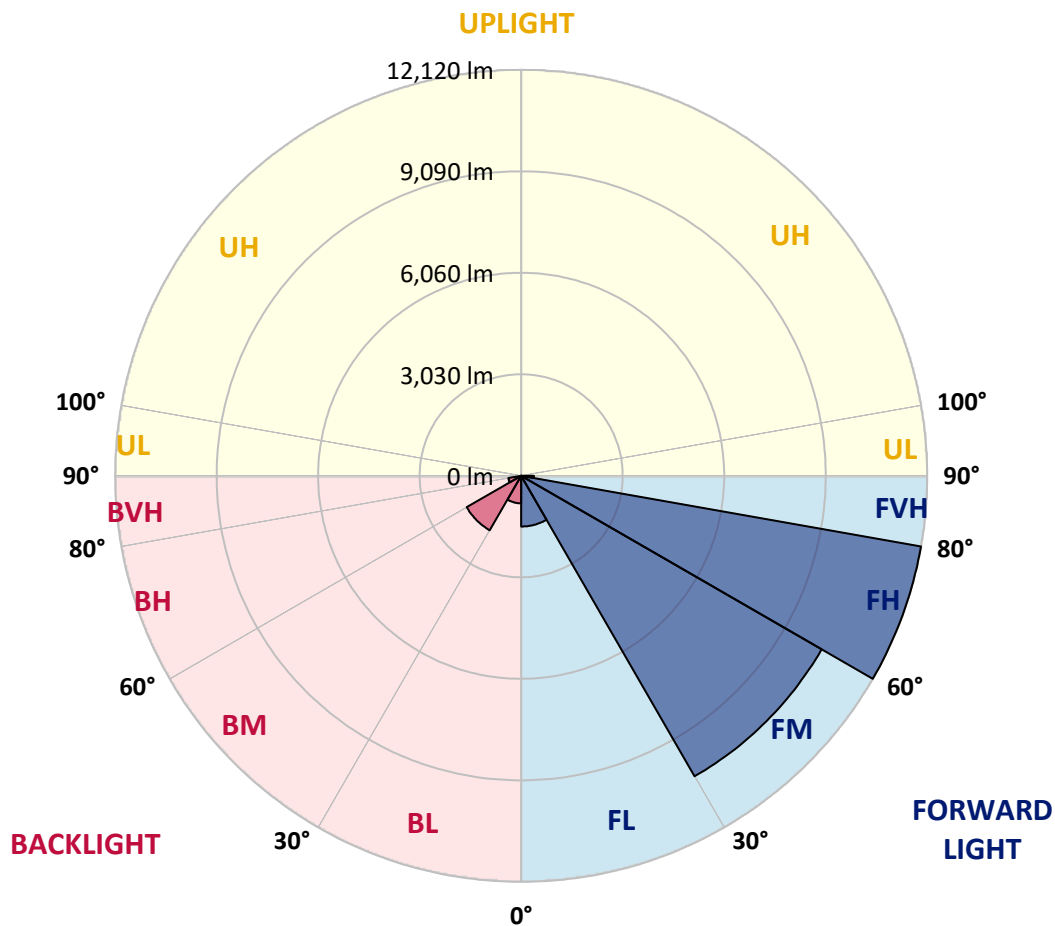
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1514.0	5.5			
FM	(30°-60°)	10356.7	37.7			
FH	(60°-80°)	12120.2	44.1			G5
FVH	(80°-90°)	382.2	1.4			G3/500
BL	(0°-30°)	821.3	3.0	B2/1000		
BM	(30°-60°)	1876.5	6.8	B2/2500		
BH	(60°-80°)	387.9	1.4	B1/500		G1/500
BVH	(80°-90°)	5.3	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°	34°	35°	45°	55°	65°	75°	85°
0°	3980.5	3980.5	3980.5	3980.5	3980.5	3980.5	3980.5	3980.5	3980.5	3980.5	3980.5
2.5°	3803.4	3835.6	3841.6	3851.7	3851.7	3863.7	3883.9	3912.0	3958.3	3982.5	3998.6
5°	3505.5	3529.7	3559.9	3584.0	3630.3	3636.3	3714.8	3791.3	3897.9	3978.4	4034.8
7.5°	3205.7	3233.9	3274.1	3332.5	3392.8	3411.0	3529.7	3658.5	3827.5	3978.4	4073.0
10°	2994.4	2996.4	3032.6	3091.0	3187.6	3209.7	3354.6	3537.7	3749.0	3954.3	4109.2
12.5°	2875.7	2889.8	2905.9	2950.1	3042.7	3056.8	3211.7	3427.1	3670.6	3940.2	4151.5
15°	2875.7	2885.7	2895.8	2917.9	2992.4	3004.5	3141.3	3356.6	3630.3	3946.2	4219.9
17.5°	2905.9	2922.0	2913.9	2940.1	3018.5	3026.6	3147.3	3336.5	3628.3	3984.5	4324.6
20°	2978.3	2990.4	2974.3	2990.4	3068.9	3085.0	3209.7	3374.7	3662.5	4050.9	4455.4
22.5°	3093.0	3099.0	3060.8	3072.9	3153.4	3173.5	3318.4	3483.4	3745.0	4157.5	4630.4
25°	3237.9	3250.0	3191.6	3205.7	3282.2	3306.3	3473.3	3646.4	3875.8	4304.4	4853.8
27.5°	3404.9	3411.0	3360.6	3358.6	3457.2	3491.5	3660.5	3847.6	4050.9	4489.6	5135.6
30°	3596.1	3614.2	3565.9	3557.9	3682.6	3710.8	3877.8	4095.2	4308.5	4767.3	5536.0
32.5°	3747.0	3761.1	3732.9	3753.1	3879.8	3902.0	4141.4	4445.3	4713.0	5161.7	6081.4
35°	3964.4	3972.4	3908.0	3944.2	4089.1	4145.5	4501.7	4936.3	5222.1	5656.8	6793.7
37.5°	4751.2	4751.2	4477.5	4298.4	4437.3	4487.6	4994.7	5554.1	5849.9	6320.8	7691.3
40°	5839.9	5821.8	5421.3	5055.1	5036.9	5135.6	5697.0	6332.9	6660.9	7117.7	8701.5
42.5°	7001.0	6972.8	6427.5	6065.3	6004.9	6039.1	6508.0	7292.8	7626.9	8089.7	9788.1
45°	8031.3	8023.3	7524.2	7037.2	6928.6	7037.2	7520.2	8415.7	8655.2	9142.2	10872.8
47.5°	8894.6	8894.6	8530.4	8212.5	8156.1	8220.5	8890.6	9661.4	9639.2	10263.1	11929.3
50°	9888.8	9880.7	9534.6	9397.7	9456.1	9546.7	10468.3	10973.4	10657.5	11363.8	12873.1
52.5°	10585.0	10633.3	10514.6	10492.5	10790.3	10947.3	12070.2	12257.3	11569.1	12408.2	13579.4
55°	11136.4	11192.8	11329.6	11484.6	12058.1	12263.3	13621.7	13474.8	12331.8	13313.8	13985.9
57.5°	11917.2	11836.7	12048.0	12353.9	13281.6	13529.1	15124.9	14623.8	12945.5	14048.3	14030.2
60°	12865.0	12877.1	12913.3	13299.7	14503.1	14821.1	16606.0	15710.5	13340.0	14499.1	13539.2
62.5°	14004.0	14022.1	14096.6	14690.3	16143.2	16443.0	18183.7	16600.0	13521.1	14372.3	12271.4
65°	13925.6	14002.0	14833.1	16863.6	18636.5	18932.3	20025.0	17223.8	13247.4	13213.2	9991.4
67.5°	12685.9	12810.7	14201.2	19459.6	22395.6	22725.6	22250.7	17346.6	12066.1	10275.1	6518.0
70°	11059.9	11104.2	12776.5	21793.9	26748.3	27082.4	24242.9	15996.3	9156.3	5731.2	2919.9
72.5°	8637.1	8647.1	10609.2	22335.2	29110.8	29129.0	22679.3	11875.0	4924.3	2201.5	1014.2
75°	6169.9	6109.5	7105.7	18113.3	25611.3	25816.6	17002.5	5570.2	1881.6	1040.4	505.1
77.5°	3308.3	3374.7	4020.7	10742.0	17692.7	18042.8	9277.0	1605.9	957.9	708.4	334.1
80°	1022.3	1078.6	1648.1	4918.2	10021.6	10232.9	3439.1	714.4	668.1	505.1	219.3
82.5°	322.0	334.1	768.7	2066.7	4159.6	4256.1	996.1	404.5	456.8	334.1	128.8
85°	92.6	94.6	342.1	770.7	1028.3	1048.4	279.7	157.0	261.6	207.3	66.4
87.5°	10.1	32.2	128.8	128.8	90.6	88.5	30.2	34.2	74.5	26.2	12.1
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°	3980.5	3980.5	3980.5	3980.5	3980.5	3980.5	3980.5	3980.5	3980.5	3980.5	3980.5
2.5°	3988.5	3990.5	3964.4	3920.1	3871.8	3831.5	3781.2	3741.0	3712.8	3704.8	3718.8
5°	4016.7	4002.6	3928.1	3793.3	3632.3	3493.5	3338.5	3215.8	3135.3	3101.1	3113.1
7.5°	4058.9	4018.7	3855.7	3590.1	3282.2	3008.5	2730.8	2515.5	2378.6	2310.2	2320.3
10°	4095.2	4014.7	3734.9	3296.3	2825.4	2410.8	2036.5	1776.9	1632.0	1563.6	1565.6
12.5°	4129.4	4012.7	3578.0	2948.1	2310.2	1803.1	1454.9	1326.1	1285.9	1271.8	1267.8
15°	4193.8	4018.7	3380.8	2549.7	1797.0	1362.4	1235.6	1233.6	1241.6	1237.6	1235.6
17.5°	4282.3	4024.7	3157.4	2127.1	1386.5	1201.4	1195.3	1213.5	1225.5	1219.5	1217.5
20°	4397.0	4048.9	2919.9	1708.5	1191.3	1161.1	1175.2	1191.3	1201.4	1191.3	1189.3
22.5°	4558.0	4091.1	2660.3	1372.4	1128.9	1137.0	1149.1	1167.2	1177.2	1163.1	1161.1
25°	4755.2	4157.5	2404.8	1193.3	1098.8	1108.8	1126.9	1147.0	1159.1	1145.0	1143.0
27.5°	5010.8	4264.2	2169.3	1153.1	1068.6	1074.6	1100.8	1130.9	1147.0	1128.9	1128.9
30°	5381.1	4439.3	1966.1	1171.2	1050.5	1036.4	1072.6	1114.8	1133.0	1116.9	1114.8
32.5°	5872.1	4686.8	1841.3	1199.4	1042.4	992.1	1026.3	1080.6	1110.8	1100.8	1100.8
35°	6516.0	5063.1	1793.0	1231.6	1036.4	945.8	970.0	1028.3	1080.6	1090.7	1090.7
37.5°	7296.8	5586.3	1807.1	1245.7	1018.3	907.6	919.6	970.0	1038.4	1070.6	1078.6
40°	8184.3	6196.1	1887.6	1231.6	998.1	875.4	877.4	915.6	976.0	1024.3	1040.4
42.5°	9099.9	6908.4	2036.5	1179.2	980.0	847.2	841.2	867.3	907.6	941.8	955.9
45°	9971.3	7640.9	2183.4	1106.8	957.9	819.0	804.9	815.0	823.1	837.1	845.2
47.5°	10731.9	8156.1	2141.2	1040.4	927.7	786.8	762.7	758.7	734.5	732.5	730.5
50°	11257.2	8268.8	1901.7	974.0	883.4	750.6	712.4	688.2	646.0	625.8	627.9
52.5°	11424.2	7824.1	1553.5	907.6	811.0	702.3	648.0	609.7	557.4	539.3	537.3
55°	11202.8	6952.7	1241.6	827.1	710.4	637.9	577.5	527.2	485.0	462.8	462.8
57.5°	10661.5	5843.9	982.0	732.5	603.7	565.5	505.1	454.8	418.6	396.4	392.4
60°	9764.0	4640.5	776.8	619.8	515.2	487.0	424.6	392.4	360.2	334.1	328.0
62.5°	8401.6	3312.3	609.7	491.0	430.6	398.4	362.2	338.1	299.8	263.6	257.6
65°	6556.3	2026.4	470.9	360.2	346.1	330.0	307.9	285.8	239.5	203.2	197.2
67.5°	4135.4	959.9	336.1	271.7	273.7	265.6	255.6	237.5	203.2	171.1	167.0
70°	1821.2	464.9	221.4	207.3	203.2	203.2	211.3	205.3	173.1	142.9	136.8
72.5°	619.8	249.5	165.0	157.0	146.9	144.9	177.1	171.1	138.9	110.7	104.6
75°	324.0	167.0	120.7	112.7	88.5	106.7	140.9	132.8	98.6	72.4	66.4
77.5°	211.3	118.7	82.5	72.4	50.3	70.4	104.6	92.6	58.4	36.2	32.2
80°	132.8	78.5	48.3	34.2	24.1	38.2	56.3	40.2	22.1	8.0	6.0
82.5°	70.4	40.2	18.1	12.1	10.1	12.1	14.1	10.1	4.0	0.0	0.0
85°	28.2	14.1	6.0	4.0	2.0	0.0	4.0	2.0	0.0	0.0	0.0
87.5°	10.1	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)