

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: P942124

Luminaire Tested: **GALN-SB6A-727-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942124
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB6A-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18424 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 170.9
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

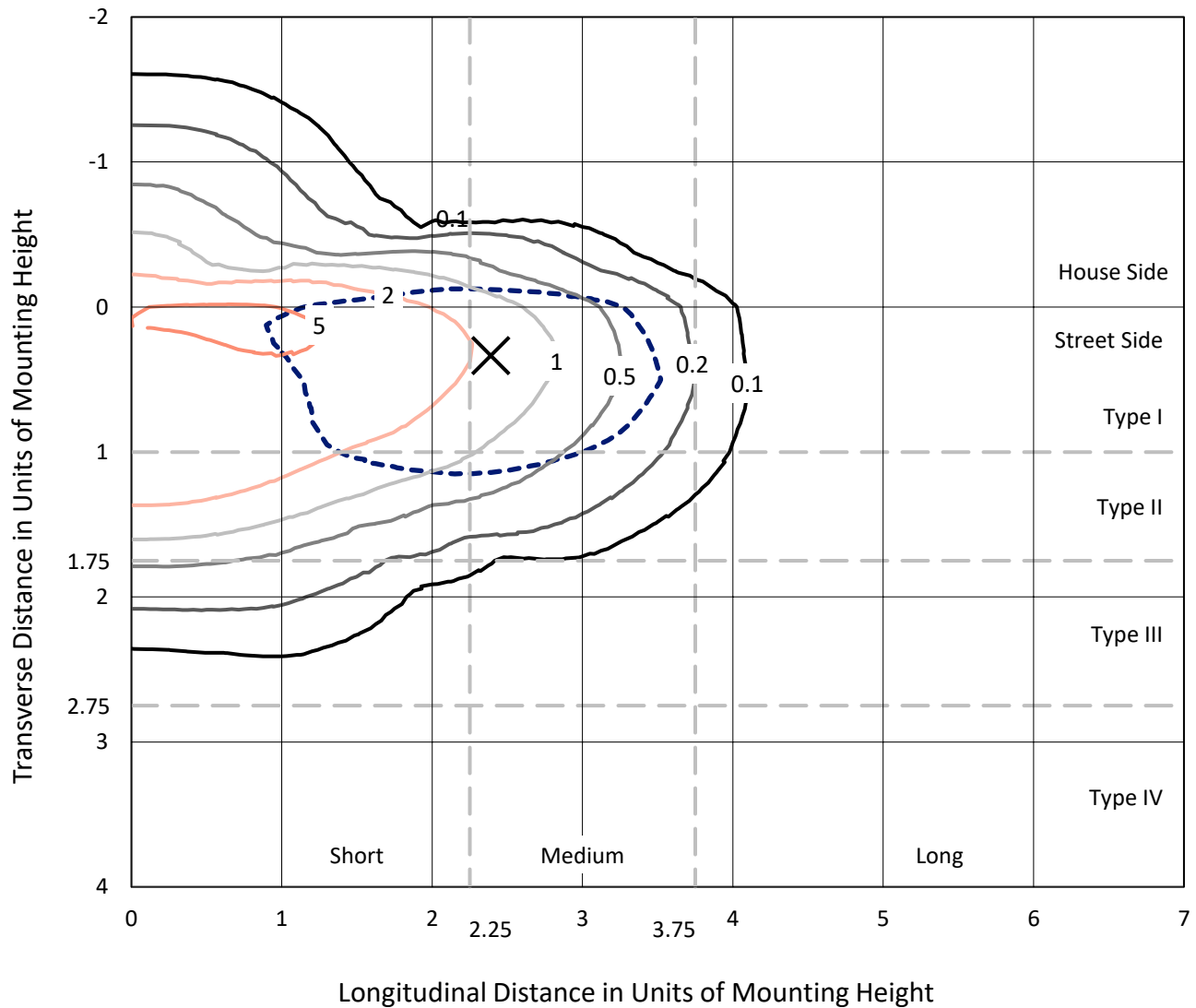


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

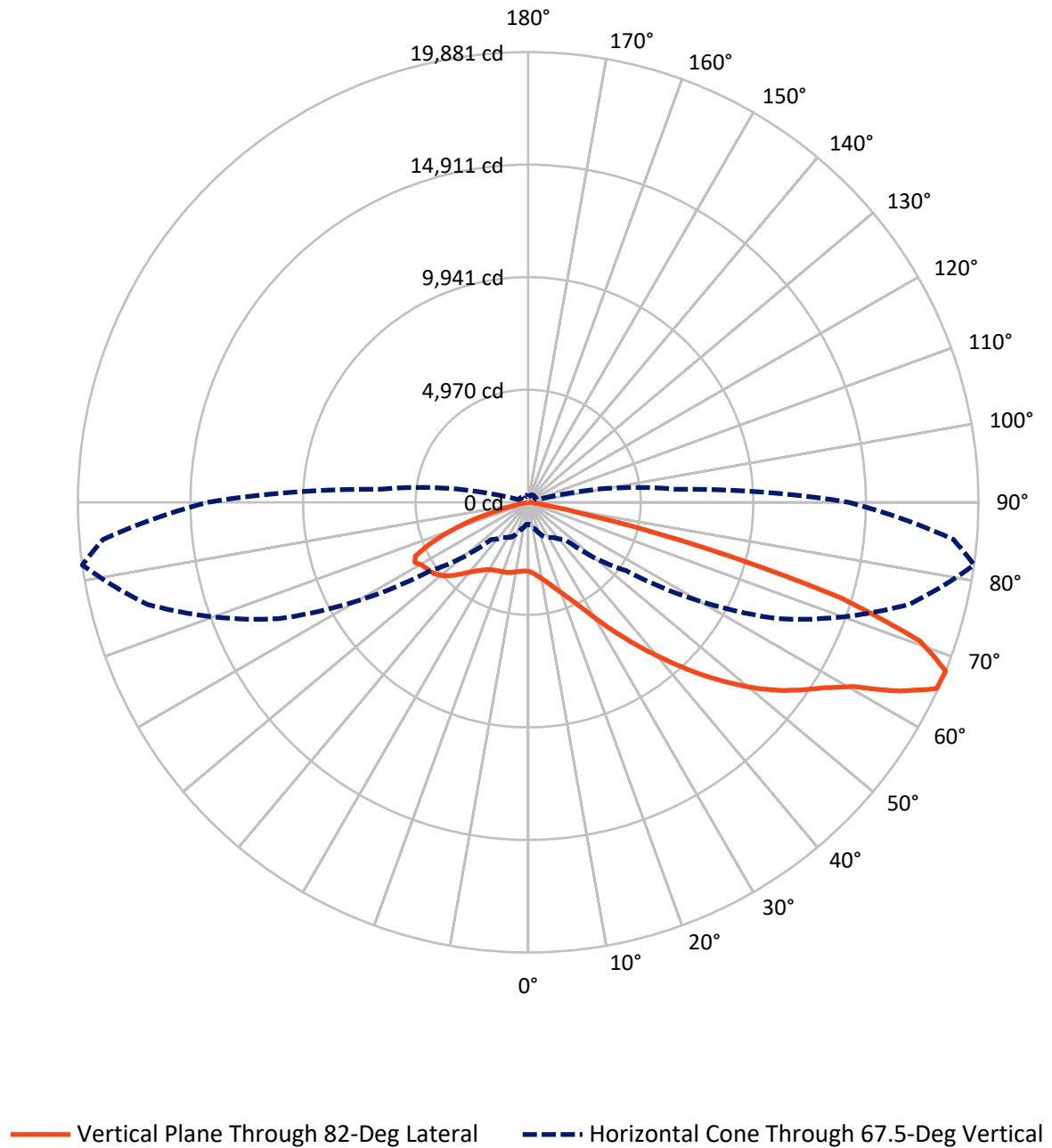


Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3337.3	0.0	3337.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	15086.7	0.0	15086.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	18424.0	0.0	18424.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.9	1.5
10°-20°	706.6	3.8
20°-30°	1131.8	6.1
30°-40°	2001.4	10.9
40°-50°	3506.6	19.0
50°-60°	4676.9	25.4
60°-70°	4353.9	23.6
70°-80°	1671.0	9.1
80°-90°	103.8	0.6
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°	18424.0	100.0
0°-180°	18424.0	100.0

Coefficient of Utilization



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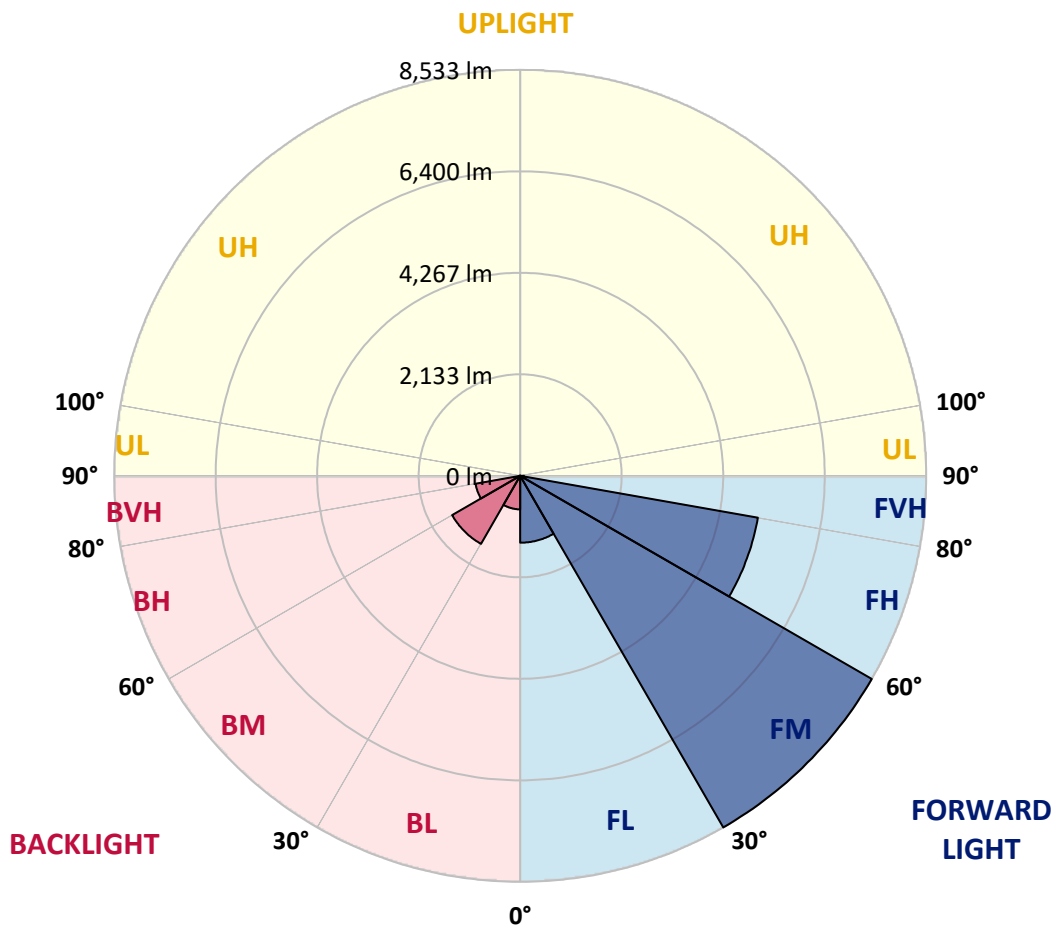
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1405.5	7.6			
FM	(30°-60°)	8533.2	46.3			
FH	(60°-80°)	5072.4	27.5			G3/7500
FVH	(80°-90°)	75.5	0.4			G1/100
BL	(0°-30°)	704.8	3.8	B2/1000		
BM	(30°-60°)	1651.6	9.0	B2/2500		
BH	(60°-80°)	952.5	5.2	B2/1000		G2/1000
BVH	(80°-90°)	28.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3052.2	3052.2	3052.2	3052.2	3052.2	3052.2	3052.2	3052.2	3052.2	3052.2	3052.2
2.5°	3226.0	3244.6	3234.0	3228.7	3219.4	3206.1	3195.5	3162.3	3127.8	3105.3	3097.3
5°	3291.0	3309.6	3308.2	3313.6	3320.2	3324.2	3321.5	3284.4	3235.3	3196.8	3174.3
7.5°	3235.3	3256.5	3273.8	3300.3	3346.7	3395.8	3419.7	3411.7	3361.3	3308.2	3280.4
10°	3077.4	3100.0	3141.1	3203.5	3301.6	3407.7	3496.6	3537.7	3505.9	3447.5	3409.1
12.5°	2788.3	2810.8	2891.7	3027.0	3191.5	3375.9	3545.7	3655.8	3663.7	3605.4	3560.3
15°	2463.3	2485.8	2572.0	2741.8	2992.5	3288.3	3572.2	3780.5	3850.8	3800.4	3746.0
17.5°	2261.7	2281.5	2346.5	2483.2	2744.5	3113.3	3562.9	3913.1	4073.6	4033.8	3968.8
20°	2200.6	2217.9	2248.4	2343.9	2561.4	2931.5	3501.9	4037.8	4313.7	4291.2	4218.2
22.5°	2265.6	2281.5	2290.8	2333.3	2469.9	2812.1	3425.0	4165.2	4592.3	4594.9	4506.1
25°	2415.5	2431.4	2420.8	2447.4	2507.0	2775.0	3395.8	4315.0	4942.5	4971.7	4870.8
27.5°	2662.2	2663.6	2638.4	2637.0	2646.3	2830.7	3426.3	4475.5	5384.2	5438.6	5313.9
30°	3157.0	3137.1	3040.3	2935.5	2887.7	2997.8	3511.2	4665.2	5905.5	6002.3	5845.8
32.5°	3919.8	3890.6	3712.8	3462.1	3210.1	3267.1	3663.7	4881.5	6473.2	6648.3	6457.3
35°	4747.5	4739.5	4553.8	4181.1	3740.7	3650.5	3911.8	5165.3	7092.7	7371.3	7144.4
37.5°	5516.8	5512.9	5406.7	4967.7	4431.8	4185.0	4309.7	5536.7	7755.9	8159.2	7891.2
40°	6219.9	6231.8	6125.7	5733.1	5193.2	4870.8	4850.9	5995.7	8493.5	9017.4	8699.1
42.5°	6827.4	6840.7	6733.2	6442.7	5945.3	5629.6	5515.5	6558.1	9213.7	9939.3	9562.6
45°	7239.9	7322.2	7306.3	7074.1	6717.3	6389.7	6314.1	7263.8	10034.8	10916.9	10475.2
47.5°	7356.7	7432.3	7551.7	7583.5	7366.0	7043.6	7133.8	8114.1	10865.2	11895.9	11393.1
50°	7068.8	7139.1	7387.2	7717.5	7868.7	7769.2	7931.0	9025.4	11715.5	12872.2	12293.8
52.5°	6501.1	6572.7	6885.8	7408.4	8025.2	8338.3	8730.9	9923.4	12539.2	13796.7	13146.8
55°	5680.0	5755.6	6157.5	6749.1	7726.8	8573.0	9398.1	10820.1	13294.0	14628.4	13916.1
57.5°	4563.1	4618.8	5036.6	5864.4	6976.0	8339.6	9890.2	11799.1	14005.0	15445.5	14678.8
60°	2974.0	3023.1	3508.5	4431.8	5731.7	7559.6	9988.4	12890.7	14949.4	16508.1	15706.9
62.5°	1977.8	2010.9	2298.8	2976.6	4036.5	6062.0	9414.0	13762.2	16334.3	18357.2	17469.8
65°	1357.0	1390.2	1678.0	2150.2	2607.9	4010.0	7762.6	13646.8	17589.1	19825.6	18776.3
67.5°	968.3	996.2	1240.3	1686.0	1887.6	2329.3	5262.2	12171.8	17408.7	19881.3	18846.6
70°	693.7	709.7	911.3	1313.2	1500.3	1399.4	2926.2	9309.2	15242.6	18358.5	17411.4
72.5°	485.5	490.8	632.7	1000.2	1208.4	1021.4	1392.8	6206.6	11528.4	14409.6	13498.3
75°	329.0	335.6	425.8	733.5	969.7	780.0	737.5	3328.1	6767.7	7976.1	7149.7
77.5°	201.6	204.3	274.6	501.4	725.6	594.3	474.9	1410.0	2618.5	2570.7	2191.3
80°	114.1	114.1	175.1	311.7	494.8	383.4	332.9	599.6	829.1	728.2	642.0
82.5°	63.7	65.0	127.3	193.7	327.6	226.8	183.1	277.2	358.1	317.0	275.9
85°	26.5	29.2	78.3	91.5	156.5	112.8	74.3	116.7	132.6	118.1	86.2
87.5°	2.7	4.0	23.9	17.2	18.6	22.6	10.6	22.6	18.6	18.6	13.3
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°	3052.2	3052.2	3052.2	3052.2	3052.2	3052.2	3052.2	3052.2	3052.2	3052.2	3052.2
2.5°	3072.1	3052.2	3001.8	2943.5	2866.5	2829.4	2779.0	2744.5	2715.3	2718.0	2691.4
5°	3131.8	3081.4	2968.7	2828.1	2653.0	2528.3	2395.6	2304.1	2229.8	2213.9	2178.1
7.5°	3214.1	3134.5	2936.8	2683.5	2387.7	2163.5	1963.2	1834.5	1743.0	1713.8	1684.6
10°	3320.2	3204.8	2895.7	2501.7	2075.9	1790.7	1575.9	1475.0	1412.7	1391.5	1375.6
12.5°	3443.5	3285.7	2841.3	2280.2	1754.9	1480.4	1343.7	1293.3	1273.4	1266.8	1262.8
15°	3598.7	3386.5	2759.1	2017.6	1483.0	1290.7	1232.3	1225.7	1228.3	1225.7	1224.3
17.5°	3783.1	3496.6	2625.1	1747.0	1300.0	1193.8	1172.6	1177.9	1184.5	1183.2	1180.6
20°	3984.7	3605.4	2454.0	1506.9	1175.3	1124.9	1112.9	1118.2	1123.5	1120.9	1119.6
22.5°	4214.2	3722.1	2264.3	1319.8	1091.7	1061.2	1047.9	1049.2	1049.2	1043.9	1041.3
25°	4488.8	3850.8	2065.3	1187.2	1028.0	1004.1	988.2	982.9	975.0	959.0	956.4
27.5°	4816.5	3987.4	1874.3	1094.3	977.6	955.1	936.5	923.2	903.3	876.8	874.2
30°	5185.2	4153.2	1712.5	1036.0	937.8	915.3	894.0	874.2	845.0	811.8	809.2
32.5°	5619.0	4331.0	1594.4	997.5	902.0	878.1	852.9	829.1	797.2	764.1	765.4
35°	6136.3	4545.9	1525.5	971.0	874.2	842.3	814.5	787.9	764.1	734.9	732.2
37.5°	6697.4	4774.0	1504.2	957.7	855.6	806.5	774.7	756.1	753.4	736.2	734.9
40°	7311.6	5044.6	1520.1	949.8	835.7	772.0	737.5	733.5	740.2	709.7	711.0
42.5°	7961.5	5365.6	1546.7	940.5	807.8	737.5	704.4	704.4	699.1	656.6	656.6
45°	8664.6	5735.7	1573.2	917.9	774.7	703.0	677.8	668.5	646.0	604.9	603.5
47.5°	9372.9	6112.4	1593.1	876.8	734.9	673.9	651.3	630.1	596.9	559.8	558.4
50°	10045.4	6450.7	1571.9	815.8	689.8	646.0	622.1	592.9	557.1	531.9	527.9
52.5°	10646.3	6743.8	1481.7	744.2	642.0	616.8	595.6	565.1	535.9	509.4	506.7
55°	11169.0	6981.3	1322.5	676.5	599.6	591.6	570.4	531.9	492.1	469.6	466.9
57.5°	11670.4	7161.7	1123.5	620.8	561.1	563.8	531.9	497.4	460.3	436.4	433.8
60°	12337.6	7403.1	921.9	569.1	520.0	527.9	493.5	468.2	421.8	391.3	387.3
62.5°	13404.1	7778.5	732.2	505.4	472.2	474.9	460.3	429.8	374.1	338.3	335.6
65°	14250.4	7640.5	577.0	436.4	417.8	421.8	421.8	388.7	329.0	287.8	283.9
67.5°	14154.9	6542.2	460.3	368.8	366.1	368.8	378.0	350.2	291.8	258.7	253.4
70°	13039.3	5203.8	368.8	306.4	318.4	311.7	338.3	319.7	262.6	229.5	225.5
72.5°	10639.7	3748.6	281.2	253.4	244.1	254.7	305.1	287.8	218.9	181.7	177.7
75°	6217.2	2000.3	209.6	200.3	176.4	212.2	270.6	245.4	167.1	134.0	130.0
77.5°	2024.2	697.7	153.9	147.2	131.3	171.1	230.8	206.9	136.6	106.1	102.1
80°	542.5	210.9	104.8	96.8	84.9	127.3	183.1	164.5	98.2	69.0	67.7
82.5°	217.5	88.9	61.0	54.4	46.4	87.5	144.6	132.6	73.0	43.8	43.8
85°	70.3	29.2	22.6	17.2	21.2	54.4	86.2	90.2	51.7	22.6	17.2
87.5°	9.3	4.0	4.0	5.3	4.0	9.3	26.5	25.2	14.6	2.7	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)